



Environmental Protection Authority

EPA REFERRAL
FORM
PROPONENT

Referral of a Proposal by the Proponent to the Environmental Protection Authority under Section 38(1) of the *Environmental Protection Act 1986*.

PURPOSE OF THIS FORM

Section 38(1) of the *Environmental Protection Act 1986* (EP Act) provides that where a development proposal is likely to have a significant effect on the environment, a proponent may refer the proposal to the Environmental Protection Authority (EPA) for a decision on whether or not it requires assessment under the EP Act. This form sets out the information requirements for the referral of a proposal by a proponent.

Proponents are encouraged to familiarise themselves with the EPA's *General Guide on Referral of Proposals* [see Environmental Impact Assessment/Referral of Proposals and Schemes] before completing this form.

A referral under section 38(1) of the EP Act by a proponent to the EPA must be made on this form. A request to the EPA for a declaration under section 39B (derived proposal) must be made on this form. This form will be treated as a referral provided all information required by Part A has been included and all information requested by Part B has been provided to the extent that it is pertinent to the proposal being referred. Referral documents are to be submitted in two formats . hard copy and electronic copy. The electronic copy of the referral will be provided for public comment for a period of 7 days, prior to the EPA making its decision on whether or not to assess the proposal.

CHECKLIST

Before you submit this form, please check that you have:

	Yes	No
Completed all the questions in Part A (essential).	✓	
Completed all applicable questions in Part B.	✓	
Included Attachment 1 . location maps.	✓	
Included Attachment 2 . additional document(s) the proponent wishes to provide (if applicable).		✓
Included Attachment 3 . confidential information (if applicable).		✓
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but excluding confidential information.	✓	

Following a review of the information presented in this form, please consider the following question (a response is optional).

Do you consider the proposal requires formal environmental impact assessment?	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Not sure	
If yes, what level of assessment?	
<input type="checkbox"/> Assessment on Proponent Information	<input type="checkbox"/> Public Environmental Review

PROPONENT DECLARATION (to be completed by the proponent)

I, _____, (*full name*) declare that I am authorised on behalf of _____ . (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading.

Signature	Name (print)
Position	Company
Date	

PART A - PROPONENT AND PROPOSAL INFORMATION

(All fields of Part A must be completed for this document to be treated as a referral)

1 PROPONENT AND PROPOSAL INFORMATION

1.1 Proponent

Name	Eclipse Resources
Joint Venture parties (if applicable)	Not applicable
Australian Company Number (if applicable)	062212140
Postal Address (where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State)	PO Box 474 Subiaco WA 6904.
Key proponent contact for the proposal: <ul style="list-style-type: none">• name• address• phone• email	Richard Kerr Level 2, 1 Roydhouse Street, Subiaco WA 6008. (08) 9380 3338 / 0429 990 600 richard.kerr@eclipseresources.com.au
Consultant for the proposal (if applicable): <ul style="list-style-type: none">• name• address• phone• email	Aurora Environmental 149-151 Kensington Street, East Perth WA 6004. (08) 9261 4900 caitlin.dorrington@auroraenvironmental.com.au

1.2 Proposal

Title	Neaves Road Sand Mine Project
Description	Eclipse Resources proposes to establish a shallow mine to extract basic raw materials (i.e. sand) for sale to the WA market.
Extent (area) of proposed ground disturbance.	200 hectares.
Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable).	Start fourth quarter 2013 (subject to receipt of environmental approvals). The Proposal is expected to have a 10+ year mine life, subject to market demand.
Details of any staging of the proposal.	Not applicable.
Is the proposal a strategic proposal?	No.
Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within which the referred proposal was identified: <ul style="list-style-type: none">• title of the strategic assessment; and• Ministerial Statement number.	Not applicable.

Please indicate whether, and in what way, the proposal is related to other proposals in the region.	Not related to other proposals in the region.
Does the proponent own the land on which the proposal is to be established? If not, what other arrangements have been established to access the land?	No. The land is State Forest 65 and is vested in the Conservation Commission and managed by the Department of Parks and Wildlife. Eclipse Resources are applying for a mining lease from the Department of Mines and Petroleum (DMP) to mine a portion of State Forest 65.
What is the current land use on the property, and the extent (area in hectares) of the property?	The current land use is pine plantation and cleared areas/tracks. The extent of current prospecting licences is 359.1 hectares.

1.3 Location

<p>Name of the Shire in which the proposal is located.</p>	<p>City of Wanneroo (Attachment 1 Figure 1).</p>
<p>For urban areas:</p> <ul style="list-style-type: none"> • street address; • lot number; • suburb; and • nearest road intersection. 	<p>The Project area (Attachment 1 Figure 2) is to be bounded by:</p> <ul style="list-style-type: none"> • Old Yanchep Road to the west • Neaves Road to the south • Bardie Road to the east • The northern boundary is not continuous, rather follows the border of Cecil Road in the northeast, the boundary of wetland UFI: 7945 and Lot 1706 (70 Cecil Road) both zoned Parks and Recreation on the Metropolitan Regional Scheme (Attachment 1 Figure 3). It then follows the eastern boundary of Lot 1706 to its northwest corner, where the lease boundary aligns with the northern border of Lot 1706 and runs due west across to Bardie Road. <p>The proposed Project is located in the suburb of Mariginiup. The nearest road intersection is Neaves Road and Old Yanchep Road.</p>
<p>For remote localities:</p> <ul style="list-style-type: none"> • nearest town; and • distance and direction from that town to the proposal site. 	<p>Not applicable.</p>
<p>Electronic copy of spatial data - GIS or CAD, geo-referenced and conforming to the following parameters:</p> <ul style="list-style-type: none"> • GIS: polygons representing all activities and named; • CAD: simple closed polygons representing all activities and named; • datum: GDA94; • projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA); • format: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD. 	<p>Enclosed?: Yes</p>

1.4 Confidential Information

<p>Does the proponent wish to request the EPA to</p>	
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allow any part of the referral information to be treated as confidential?	No
If yes, is confidential information attached as a separate document in hard copy?	No

1.5 Government Approvals

Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.		No	
Is approval required from any Commonwealth or State Government agency or Local Authority for any part of the proposal? If yes, please complete the table below.		Yes	
Agency/Authority	Approval required	Application lodged Yes / No	Agency/Local Authority contact(s) for proposal
DMP	Granting of mining lease	Yes	TBC

PART B - ENVIRONMENTAL IMPACTS AND PROPOSED MANAGEMENT

2. ENVIRONMENTAL IMPACTS

Describe the impacts of the proposal on the following elements of the environment, by answering the questions contained in Sections 2.1-2.11:

- 2.1 flora and vegetation;
- 2.2 fauna;
- 2.3 rivers, creeks, wetlands and estuaries;
- 2.4 significant areas and/ or land features;
- 2.5 coastal zone areas;
- 2.6 marine areas and biota;
- 2.7 water supply and drainage catchments;
- 2.8 pollution;
- 2.9 greenhouse gas emissions;
- 2.10 contamination; and
- 2.11 social surroundings.

These features should be shown on the site plan, where appropriate.

Please refer to Attachment 1 Figures 1 - 8 for features of the environment.

For all information, please indicate:

- (a) the source of the information; and
- (b) the currency of the information.

2.1 Flora and Vegetation

2.1.1 Do you propose to clear any native flora and vegetation as a part of this proposal?

[A proposal to clear native vegetation may require a clearing permit under Part V of the EP Act (Environmental Protection (Clearing of Native Vegetation) Regulations 2004)]. Please contact the Department of Environment and Conservation (DEC) for more information.

- (please tick) Yes **If yes**, complete the rest of this section.
 No **If no**, go to the next section

2.1.2 How much vegetation are you proposing to clear (in hectares)?

Approximately 15 hectares of fragmented regrowth native vegetation. Existing pine plantation will be cleared by the Forest Products Commission.

2.1.3 Have you submitted an application to clear native vegetation to the DEC (unless you are exempt from such a requirement)?

- Yes No **If yes**, on what date and to which office was the application submitted of the DEC?

Application to clear native vegetation will be submitted to the DMP following grant of the mining lease and approval of the Mining Proposal.

2.1.4 Are you aware of any recent flora surveys carried out over the area to be disturbed by this proposal?

Yes

No

If yes, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey(s).

If no, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.

Eclipse Resources conducted a Level 1 Flora and Vegetation Survey of the proposed mining area (Attachment 2).

2.1.5 Has a search of DEC records for known occurrences of rare or priority flora or threatened ecological communities been conducted for the site?

Yes

No

If you are proposing to clear native vegetation for any part of your proposal, a search of DEC records of known occurrences of rare or priority flora and threatened ecological communities will be required. Please contact DEC for more information.

2.1.6 Are there any known occurrences of rare or priority flora or threatened ecological communities on the site?

Yes

No

If yes, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

No rare or priority flora or threatened ecological communities were identified on the site (Eclipse Resources 2013; Attachment 2).

2.1.7 If located within the Perth Metropolitan Region, is the proposed development within or adjacent to a listed Bush Forever Site? (You will need to contact the Bush Forever Office, at the Department for Planning and Infrastructure)

Yes

No

If yes, please indicate which Bush Forever Site is affected (site number and name of site where appropriate).

Three Bush Forever sites will be located within the mining lease (when granted) but will be outside the mine pit boundary (Figure 7). The wetland \pm Little Coogee Flatqis designated a Bush Forever Site (443). Conservation category wetland (UFI: 7944) and Resource Enhancement Wetland (UFI: 7942) are also designated Bush Forever Sites (Site 106 and 105 respectively) within State Forest 65. Details on Bush Forever sites are provided in (Table 1).

Table 1: Bush Forever Sites

Site Number	Name	Area (ha)	Landform and Soils	Vegetation complex	Vegetation condition
443	Little Coogee Flat, Pinjar	5.6	Holocene swamp deposits (Qhw:Cps)	Pinjar complex (Hedde et al. 1980)	Very Good
105	State Forest 65 .	NA			
106	Gnangara Plantation Bushland, Pinjar	2.4			

No clearing of Bush Forever Sites or lowering of the water table (i.e. dewatering) beneath Bush Forever Sites will occur. Bush Forever Sites 443 and 106 will be protected from mining by a buffer of 200 m, and Bush Forever Site 105 by a buffer of 100 m.

2.1.8 What is the condition of the vegetation at the site?

The overall condition of native vegetation in the area proposed to be mined is degraded to good (Eclipse Resources 2013).

2.2 Fauna

2.2.1 Do you expect that any fauna or fauna habitat will be impacted by the proposal?

(please tick) Yes **If yes**, complete the rest of this section.
 No **If no**, go to the next section.

Given the previous use of the land as a pine plantation, it is highly unlikely that natural fauna habitats remain on the lease. The lack of fauna habitat suggests any conservation significant species present on the lease will be in very low numbers. Mining will be sporadic and subject to market demand with less than 2 loaders/excavators operating at any given time. With management measures in place (as guided by the Mining Proposal) impacts to conservation significant fauna species is considered unlikely.

2.2.2 Describe the nature and extent of the expected impact.

2.2.3 Are you aware of any recent fauna surveys carried out over the area to be disturbed by this proposal?

Yes No **If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey(s).
If no, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.

2.2.4 Has a search of DEC records for known occurrences of Specially Protected (threatened) fauna been conducted for the site?

Yes No (please tick)

2.2.5 Are there any known occurrences of Specially Protected (threatened) fauna on the site?

Yes

No

If yes, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

2.3 Rivers, Creeks, Wetlands and Estuaries

2.3.1 Will the development occur within 200 metres of a river, creek, wetland or estuary?

(please tick)

Yes

If yes, complete the rest of this section.

No

If no, go to the next section.

2.3.2 Will the development result in the clearing of vegetation within the 200 metre zone?

Yes

No

If yes, please describe the extent of the expected impact.

A 100 m buffer will be implemented to the Resource Enhancement Wetlands on the lease (Figure 2). No clearing will occur within the 100 m buffer however some clearing of native vegetation (where present) within 100 m to 200 m from the geomorphic wetland boundary of these wetlands may occur.

2.3.3 Will the development result in the filling or excavation of a river, creek, wetland or estuary?

Yes

No

If yes, please describe the extent of the expected impact.

2.3.4 Will the development result in the impoundment of a river, creek, wetland or estuary?

Yes

No

If yes, please describe the extent of the expected impact.

2.3.5 Will the development result in draining to a river, creek, wetland or estuary?

Yes No **If yes**, please describe the extent of the expected impact.

2.3.6 Are you aware if the proposal will impact on a river, creek, wetland or estuary (or its buffer) within one of the following categories? (please tick)

Conservation Category Wetland	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Perth Bush Forever site	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (Swan & Canning Rivers) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
The management area as defined in s4(1) of the <i>Swan River Trust Act 1988</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Which is subject to an international agreement, because of the importance of the wetland for waterbirds and waterbird habitats (e.g. Ramsar, JAMBA, CAMBA)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure

2.4 Significant Areas and/ or Land Features

2.4.1 Is the proposed development located within or adjacent to an existing or proposed National Park or Nature Reserve?

Yes No **If yes**, please provide details.

2.4.2 Are you aware of any Environmentally Sensitive Areas (as declared by the Minister under section 51B of the EP Act) that will be impacted by the proposed development?

Yes No **If yes**, please provide details.

2.4.3 Are you aware of any significant natural land features (e.g. caves, ranges etc) that will be impacted by the proposed development?

Yes No **If yes**, please provide details.

2.5 Coastal Zone Areas (Coastal Dunes and Beaches)

2.5.1 Will the development occur within 300metres of a coastal area?

(please tick)

Yes

If yes, complete the rest of this section.

No

If no, go to the next section.

2.5.2 What is the expected setback of the development from the high tide level and from the primary dune?

2.5.3 Will the development impact on coastal areas with significant landforms including beach ridge plain, cusped headland, coastal dunes or karst?

Yes

No

If yes, please describe the extent of the expected impact.

2.5.4 Is the development likely to impact on mangroves?

Yes

No

If yes, please describe the extent of the expected impact.

2.6 Marine Areas and Biota

2.6.1 Is the development likely to impact on an area of sensitive benthic communities, such as seagrasses, coral reefs or mangroves?

Yes

No

If yes, please describe the extent of the expected impact.

2.6.2 Is the development likely to impact on marine conservation reserves or areas recommended for reservation (as described in *A Representative Marine Reserve System for Western Australia*, CALM, 1994)?

Yes

No

If yes, please describe the extent of the expected impact.

2.6.3 Is the development likely to impact on marine areas used extensively for recreation or for commercial fishing activities?

Yes

No

If yes, please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).

2.7 Water Supply and Drainage Catchments

2.7.1 Are you in a proclaimed or proposed groundwater or surface water protection area?

(You may need to contact the Department of Water (DoW) for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)

Yes No **If yes**, please describe what category of area.

A large portion of the proposed mining area is within the Gngangara Mound Public Drinking Water Priority 1 Source Protection Area (Figure 6).

2.7.2 Are you in an existing or proposed Underground Water Supply and Pollution Control area?

(You may need to contact the DoW for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)

Yes No **If yes**, please describe what category of area.

A large portion of the proposed mining area is within the Gngangara Underground Water Pollution Control Area.

2.7.3 Are you in a Public Drinking Water Supply Area (PDWSA)?

(You may need to contact the DoW for more information or refer to the DoW website. A proposal to clear vegetation within a PDWSA requires approval from DoW.)

Yes No **If yes**, please describe what category of area.

A large portion of the proposed mining area is within the Gngangara Mound Public Drinking Water Priority 1 Source Protection Area (Figure 6).

2.7.4 Is there sufficient water available for the proposal?

(Please consult with the DoW as to whether approvals are required to source water as you propose. Where necessary, please provide a letter of intent from the DoW)

Yes No (please tick)

2.7.5 Will the proposal require drainage of the land?

Yes No **If yes**, how is the site to be drained and will the drainage be connected to an existing Local Authority or Water Corporation drainage system? Please provide details.

2.7.6 Is there a water requirement for the construction and/ or operation of this proposal?

(please tick) Yes **If yes**, complete the rest of this section.

No **If no**, go to the next section.

2.7.7 What is the water requirement for the construction and operation of this proposal, in kilolitres per year?

Volumes of water required will depend on the need to suppress dust on internal roads, stockpiles and during topsoil stripping, and the frequency of fires. A 15,000 L all terrain water truck equipped with a pump and hose will be deployed at the mine. A second water truck of 12,000 L capacity can be utilised from a nearby Eclipse Resources site if required.

No abstraction of groundwater beneath the lease will occur.

2.7.8 What is the proposed source of water for the proposal? (e.g. dam, bore, surface water etc.)

Eclipse Resources is investigating appropriate avenues for sourcing water with two options being considered:

- Purchase of raw water from the Water Corporation.
- Utilise an existing allocation from a nearby Eclipse Resources site. Eclipse Resources utilise one bore at Lot 12 Wanneroo Road and two bores on Lots 1 and 2 Flynn Drive, Carramar.

• **2.8 Pollution**

2.8.1 Is there likely to be any discharge of pollutants from this development, such as noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or other pollutants?

- (please tick) Yes **If yes**, complete the rest of this section.
 No **If no**, go to the next section.

2.8.2 Is the proposal a prescribed premise, under the Environmental Protection Regulations 1987?

(Refer to the EPA's *General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986* for more information)

- Yes No **If yes**, please describe what category of prescribed premise.

Category 12 . Screening etc. of material: premises (other than premises within category 5 or 8) on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated.

2.8.3 Will the proposal result in gaseous emissions to air?

- Yes No **If yes**, please briefly describe.

Yes minor greenhouse gas emissions from operating front end loader (maximum of 2 onsite), excavator (maximum of 2 onsite) and transiting trucks.

2.8.4 Have you done any modelling or analysis to demonstrate that air quality standards will be met, including consideration of cumulative impacts from other emission sources?

- Yes No **If yes**, please briefly describe.

2.8.5 Will the proposal result in liquid effluent discharge?

- Yes No **If yes**, please briefly describe the nature, concentrations and receiving environment.

A local government approved septic tank and leach drain system or chemical system will be established for effluent disposal outside of the Priority 1 source protection area (Figure 2).

2.8.6 If there is likely to be discharges to a watercourse or marine environment, has any analysis been done to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met?

- Yes No **If yes**, please describe.

No discharges to a watercourse or the marine environment will occur.

2.8.7 Will the proposal produce or result in solid wastes?

- Yes No **If yes**, please briefly describe the nature, concentrations and disposal location/ method.

The Project area currently contains illegally disposed waste (e.g. car bodies) and other rubbish. As a result of mining, Eclipse will be removing these waste materials from the lease and will dispose of appropriately offsite.

2.8.8 Will the proposal result in significant off-site noise emissions?

Yes No **If yes**, please briefly describe.

Mining of the lease has the potential to generate noise as a result of the following operations:

- “ excavation of sand by excavator
- “ loading of sand by loader
- “ transport of sand by semi-trailer.

The generated noise will add to the existing noise levels in the area surrounding the lease. Noise generated by the mining activities will be managed to comply with *Environmental Protection (Noise) Regulations 1997*. Occupational noise will be addressed and managed to comply with the *Mines Safety and Inspection Regulations 1995* (Part 7, Division 1). Noise management will consist of; noise bunds which will be created through the placement of topsoil stockpiles, irregular operations (i.e. operation in response to demand for sand) and shut-down of operations during periods of high winds. Given the management to be implemented, and the requirements set by legislation, it is unlikely significant noise emissions will occur off-site.

2.8.9 Will the development be subject to the Environmental Protection (Noise) Regulations 1997?

Yes No **If yes**, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?

Please attach the analysis.

2.8.10 Does the proposal have the potential to generate off-site, air quality impacts, dust, odour or another pollutant that may affect the amenity of residents and other sensitive premises+ such as schools and hospitals (proposals in this category may include intensive agriculture, aquaculture, marinas, mines and quarries etc.)?

Yes No **If yes**, please describe and provide the distance to residences and other sensitive premises+.

Dust generated by dry sand mining activities may be caused by:

- “ Clearing of topsoil
- “ Excavation of pits
- “ Loading and transport
- “ Vehicle movement

- “ Wind erosion of exposed surfaces during dry and windy ambient conditions.

The generation of airborne dust is more prevalent in the summer months when winds are strong and from the south-west and south-east directions. However dust impacts are likely to be localised and minimal with management measures in place.

Control techniques include:

- “ Timing of topsoil stripping where practicable such that soil conditions are moist but not saturated. This will minimise dust generation and soil structural damage.
- “ Scheduling topsoil stripping to avoid periods of high winds. When necessary, stripping operations will be suspended under particularly high wind conditions, and ceased during periods of high winds.
- “ Watering all unsealed roads on a routine basis for the purpose of dust suppression.
- “ Reduction the size of the exposed area of mine face, by only excavating one face at a time.
- “ The management and monitoring of sand loading such that dust generation is minimised and controlled.
- “ Covering all semi-trailers to prevent dust generation from the load during transport.
- “ Minimising the need for stockpiles by excavating to fill orders only.
- “ Encouraging vegetative cover on stockpiles, especially the topsoil stockpiles. Many of these vegetative species generate from stored seed to minimise dust generation.
- “ Spreading noise control bunds with fine clay solution or hydromulch such that dust control and soil erosion measures are achieved.
- “ Inform all employees and contractors of the importance of reducing the creation of dust generating activities.

The nearest receptors are rural residences located approximately 50 m south of Neaves Road (Figure 3). Dust impacts currently occur to these premises due to the vehicular traffic currently using Neaves Road. The Proposal, with the management measures in place, is unlikely to significantly impact these properties.

2.8.11 If the proposal has a residential component or involves ~~sensitive~~ sensitive premises, is it located near a land use that may discharge a pollutant?

- Yes No Not Applicable

If yes, please describe and provide the distance to the potential pollution source

2.9 Greenhouse Gas Emissions

2.9.1 Is this proposal likely to result in substantial greenhouse gas emissions (greater than 100 000 tonnes per annum of carbon dioxide equivalent emissions)?

Yes

No

If yes, please provide an estimate of the annual gross emissions in absolute and in carbon dioxide equivalent figures.

2.9.2 Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.

2.10 Contamination

2.10.1 Has the property on which the proposal is to be located been used in the past for activities which may have caused soil or groundwater contamination?

Yes No Unsure **If yes**, please describe.

Some illegal dumping of waste (e.g. car bodies) has occurred that may have caused minor contamination.

2.10.2 Has any assessment been done for soil or groundwater contamination on the site?

Yes No **If yes**, please describe.

2.10.3 Has the site been registered as a contaminated site under the *Contaminated Sites Act 2003*? (on finalisation of the CS Regulations and proclamation of the CS Act)

Yes No **If yes**, please describe.

2.11 Social Surroundings

2.11.1 Is the proposal on a property which contains or is near a site of Aboriginal ethnographic or archaeological significance that may be disturbed?

Yes No Unsure **If yes**, please describe.

A search of the Aboriginal Heritage Inquiry System on the Department of Aboriginal Affairs website indicated no registered aboriginal heritage sites or other heritage places are present on the lease.

The nearest registered aboriginal heritage site is Honey Possum Site (ID: 3503) located approximately 322 m south west of the lease. The nearest other heritage place is Lake Adams (ID: 3396) located approximately 63 m to the south of the lease.

No native title group has a claim over the lease area.

2.11.2 Is the proposal on a property which contains or is near a site of high public interest (e.g. a major recreation area or natural scenic feature)?

Yes No **If yes**, please describe.

2.11.3 Will the proposal result in or require substantial transport of goods, which may affect the amenity of the local area?

Yes No **If yes**, please describe.

Available data on traffic indicates approximately 5520 vehicles, of which 6.9 % are heavy vehicles, utilised Neaves Road on a typical weekday for the period 2003/04 . 2008/09 (Main Roads n.d.). On Pinjar Road approximately 9080 vehicles, of which 4.1% were heavy vehicles, utilised the road on a typical weekday (Main Roads n.d.).

The haulage of sand will increase the number of heavy vehicles using these roads. However based on the available traffic data (Main Roads n.d.) the daily movement of an additional 100 heavy vehicles, assuming they utilise one of these routes only, will increase the traffic by less than two percent. The increase in noise associated with the additional vehicles is expected to be negligible.

Eclipse Resources will obtain Main Roads and City of Wanneroo's concurrence prior to commencing haulage on local and main roads.

3. PROPOSED MANAGEMENT

3.1 Principles of Environmental Protection

3.1.1 Have you considered how your project gives attention to the following Principles, as set out in section 4A of the EP Act? (For information on the Principles of Environmental Protection, please see EPA Position Statement No. 7, available on the EPA website)

- | | | |
|--|---|-----------------------------|
| 1. The precautionary principle. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. The principle of intergenerational equity. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. The principle of the conservation of biological diversity and ecological integrity. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4. Principles relating to improved valuation, pricing and incentive mechanisms. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5. The principle of waste minimisation. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

3.1.2 Is the proposal consistent with the EPA's Environmental Protection Bulletins/Position Statements and Environmental Assessment Guidelines/Guidance Statements (available on the EPA website)?

- Yes No

3.2 Consultation

3.2.1 Has public consultation taken place (such as with other government agencies, community groups or neighbours), or is it intended that consultation shall take place?

- Yes No **If yes**, please list those consulted and attach comments or summarise response on a separate sheet.

As the mining lease has not yet been granted, Eclipse Resource commits to conducting stakeholder consultation once the mining lease is granted. Stakeholders to be consulted are:

- ~ City of Wanneroo
- ~ Main Roads
- ~ Department of Water
- ~ Department of Parks and Wildlife
- ~ Local landowners south of Neaves Road
- ~ Holcim (Australia) Pty Ltd
- ~ Boral Resources WA Ltd
- ~ Forest Products Commission

No aboriginal community or native title claim occurs on the land; therefore no consultation will be undertaken with these groups.