

Works Approval

Environmental Protection Act 1986, Part V

Works Approval Holder: Leighton Contractors Pty Limited

Works Approval Number: W5884/2015/1

Registered office: 495 Victoria Avenue

CHATSWOOD NSW 2067

ACN: 000 893 667

Premises address: Mitchell Freeway Extension Project Crushing and Screening Plant

Hester Avenue, CLARKSON 6030

Within coordinates: E42074.33, N294319.72; E42118.30, N294336.03;

E42258.26, N293750.64; E42296.06, N293760.50.

Being part Lot 100 on Plan 66546 and Lot 854 on Plan 32406 as

depicted in Schedule 1.

Issue date: Thursday, 24 September 2015

Commencement date: Monday, 28 September 2015

Expiry date: Thursday, 27 September 2018

The following category/s from the *Environmental Protection Regulations 1987* cause this Premises to be a prescribed premises for the purposes of the *Environmental Protection Act 1986*:

Category number	Category description	Category production or design capacity	Approved premises production or design capacity
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.	50 000 tonnes or more per year	100 000 tonnes per annual period

Conditions

This Works Approval is subject to the conditions set out in the attached pages.

Danielle Eyre
Officer delegated under section 20
of the Environmental Protection Act 1986

Environmental Protection Act 1986 Works Approval:W5884/2015/1 File No: DER2015/001575

Works Approval Conditions

1 General

- 1.1 Interpretation
- 1.1.1 In the Works Approval, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.
- 1.1.2 In the Works Approval, unless the contrary intention appears:

'Act' means the Environmental Protection Act 1986;

'annual period' means the inclusive period from 1 July until 30 June in the following year;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Chief Executive Officer
Department Administering the Environmental Protection Act 1986
Locked Bag 33
CLOISTERS SQUARE WA 6850

Email: info@der.wa.gov.au

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Works Approval;

'Schedule 1' means Schedule 1 of this Works Approval unless otherwise stated;

'Works Approval' means this Works Approval numbered W5884/2015/1 and issued underthe *Act*:

'Works Approval Holder' means the person or organisation named as the Works Approval Holder on page 1 of the Works Approval;

- 1.1.3 Any reference to an Australian or other standard in the Works Approval means the relevant parts of the standard in force from time to time during the term of this Works Approval.
- 1.1.4 Any reference to a guideline or code of practice in the Works Approval means the current version of the guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guidelines or code of practice made during the term of this Works Approval.

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1.2 General conditions

1.2.1 The Works Approval Holder shall construct the works in accordance with the documentation detailed in Table 1.2.1:

Table 1.2.1: Construction Requirements ¹				
Document	Parts	Date of		
		Document		
Mitchell Freeway Extension Project Application for	all	10 July 2015		
Crushing and Screening Plant, 200 Hester Avenue,		-		
Neerabup, Leighton Contractors Pty Limited, W1534				
MFE Version No.1 10 July 2015.				

Note 1: Where the details and commitments of the documents listed in condition 1.2.1 are inconsistent with any other condition of this works approval, the conditions of this works approval shall prevail.

2.1 Reporting

- 2.1.1 The Works Approval Holder shall submit a compliance document to the CEO, following the construction of the works and prior to commissioning of the same.
- 2.1.2 The compliance document shall:
 - certify that the works were constructed in accordance with the conditions of the works approval;
 - (b) be signed by aperson authorised to represent the Works Approval Holder and contain the printed name and position of that person within the company.



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The orange shaded area depicts the Premises boundary.





Decision Document

Environmental Protection Act 1986, Part V

Proponent: Leighton Contractors Pty Limited

Works Approval: W5884/2015/1

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CHATSWOOD NSW 2067

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Being part Lot 100 on Plan 66546 and Lot 854 on Plan 32406

Issue date: Thursday, 24 September 2015

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Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue a works approval. DER considers that in reaching this decision, it has taken into account all relevant considerations and that the Works Approval and its Conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Christine Pustkuchen

Licensing Officer

Decision Document authorised by:

Danielle Eyre

Delegated Officer

Environmental Protection Act 1986 Decision Document: W5884/2015/1 File Number: DER2015/001575

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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

2 Administrative summary

Administrative details			
Application type	Works Approval New Licence Licence amendment Works Approval amendment		
Activities that cause the premises to become prescribed premises	Category number(s) Assessed design capacity		
prescribed premises	12 100 000 tonnes per annual period		
Application verified	Date: 11/08/2015		
Application fee paid	Date: 19/08/2015		
Works Approval has been complied with	Yes No N/A		
Compliance Certificate received	Yes□ No□ N/A⊠		
Commercial-in-confidence claim	Yes□ No⊠		
Commercial-in-confidence claim outcome			
Is the proposal a Major Resource Project?	Yes□ No⊠		
Was the proposal referred to the Environmental	Referral decision No:		
Protection Authority (EPA) under Part IV of the Environmental Protection Act 1986?	Yes⊠ No⊠ Managed under Part V☐ Assessed under Part IV☐		
	Ministerial statement No: 629		
Is the proposal subject to Ministerial Conditions?	Yes⊠ No☐ EPA Report No: 971		

Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes☐ No⊠ Department of Water consulted Yes ☐ No ☒
Is the Premises within an Environmental Protection If Yes include details of which EPP(s) here.	Policy (EPP) Area Yes□ No⊠
Are the Premises subject to any EPP requirements If Yes, include details here, eg Site is subject to SC	

3 Executive summary of proposal and assessment

To enable the construction of the Mitchell Freeway Extension project, undertaken by Main Roads Western Australia, Leighton contractors Pty Limited (Leighton) proposes to develop a crushing and screening facility along the freeway alignment to facilitate the production of material suitable for the use as the base course material for the freeway project. It is estimated that 180,000 tonnes of material will be crushed and sized; this volume will be produced over approximately 18 months. The material will be produced from the construction of the road and will be from excavated material from cut and fill works.

The proposed location for the crushing and screening plant is on the approved Mitchell Freeway Project corridor, located within the Shire of Joondalup and between Hester Avenue and Neerabup Road. The crushing and screening plant will be located adjacent to a RCG quarry and Neerabup National Park. The closest sensitive receptor (residential houses) is located on the western side of the rail alignment, which is approximately 120 metres from the closest crushing location.

The crushing and screening plant machine is a TEREX/Finlay 1540RS which has a design capacity of 260 tonnes per hour. The expected throughput of the plant is 2000 tonnes per day with the plant operating between the hours of 7am – 7pm Monday to Saturday (excluding public holidays). All locations where the plant will be operating will form part of the Mitchell Freeway alignment.

Other equipment required on site includes; a loader, used for stockpile management, loading of the crusher and installation of earthen bunds for noise dampening and to prevent stormwater runoff from any limestone that is stockpiled. A water cart will also be available to ensure stockpiles are watered and access roads are dampened to reduce dust emissions.

Crushing and screening is expected to begin mid-2015 and to be completed by December 2016. Leighton are required to apply for a licence in order to operate.

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4 Decision table

All applications are assessed in line with the *Environmental Protection Act1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	W1.2.1	Construction Conditions relating to the crushing and screening plant being constructed in accordance with the works approval supporting documentation. Operation Emission Description Emission: Contamination of stormwater by hydrocarbons from spills and operations and the release of this stormwater into the environment. Impact: Contamination of the surrounding area. The distance to the nearest surface water body (Neerabup Lake) is approximately 2 km north east of the site. Controls: Leighton has stated that the following management measures will be taken during operation; Hazardous material storage will comply with all relevant regulations and legislation; Fuel and chemical storage areas will be located above the 100 year ARI flood level; Secondary containment areas will have minimum capacity of 110% of the largest container OR 25% of the capacity of all the total volume stored individual containers within the bund, whichever is largest; All chemicals will be stored in purpose build containers/tanks in accordance with the MSDS; Re-fuelling on site shall be undertaken on sealed/bunded surface or using a	Application supporting documentation. Environmental Protection (Unauthorised Discharges) Regulations 2004. General provisions of the Environmental Protection Act 1986

DECISION TAE	BLE		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		 Adequate spill control equipment (spill kits, trays, fire suppressants etc.) will be maintained onsite; Employees will be inducted and informed of their responsibilities when handling and storing hazardous materials. Including spill response requirements; Drainage from the site will be managed to prevent movement of sediment from erosion into surrounding environment and An earthen bund will be constructed to ensure any runoff from limestone stockpiles will be contained on site; and Water diversion bunds or levees will be established around minor storage areas to prevent the cross-contamination of clean water. 	
		Risk Assessment Consequence: Insignificant Likelihood: Rare Risk Rating: Low	
		The control measures proposed by Leighton make it unlikely that contaminated stormwater will impact significantly on the local environment. Regulatory Controls No specified conditions are required for the licence.	
		Residual Risk Consequence: Insignificant Likelihood: Rare Residual Risk Rating: Low	
Premises operation	W2	There are no specified conditions relating to premises operation required during construction	N/A.



DECISION TABL	.E		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Emissions general	W2	There are no specified conditions relating to emissions during construction	N/A.
Point source emissions to air including monitoring	W2 and W3	Construction and Operation No point source emission to air is expected during construction and operation of the proposed crushing and screening plant. No specified conditions relating to point source emissions to air or the monitoring of these emissions are required for the works approval or licence.	Application supporting documentation. Environmental Protection (Unauthorised Discharges) Regulations 2004.
Point source emissions to surface water including monitoring	W2 and W3	Construction and Operation No point source emission to surface water is expected during construction and operation of the proposed crushing and screening plant. The nearest surface water feature (Neerabup Lake) is approximately 2 km north east of the site. No specified conditions relating to point source emissions to surface water or the monitoring of these emissions are required for the works approval or licence.	Application supporting documentation. Environmental Protection (Unauthorised Discharges) Regulations 2004.
Point source emissions to groundwater including monitoring	W2 and W3	Construction and Operation No point source emission to groundwater is expected during construction and operation of the proposed crushing and screening plant. No specified conditions relating to point source emissions to groundwater or the monitoring of these emissions are required for the works approval or licence.	Application supporting documentation. Environmental Protection (Unauthorised Discharges) Regulations 2004.
Emissions to land including monitoring	W2 and W3	Construction There will be no emissions to land during construction. No specified conditions relating to emissions to land are required for the works approval.	Application supporting documentation. Environmental Protection

Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		Operation See 'General conditions' section for assessment of contaminated stormwater	(Unauthorised Discharges) Regulations 2004.
		 Emission Description Emission: Waste generated during operation and it's release into the surrounding environment Impact: Contamination of the surrounding area Controls: Leighton has stated that the following waste management measures will be undertaken onsite; Workforce induction will outline waste disposal requirements; All waste will be disposed of at an appropriate licenced facility; Waste chemicals will be disposed of as per the corresponding MSDS sheet; General waste/litter will be stored within sealed litter and recycle bins prior to disposal offsite. 	
		Risk Assessment Consequence: Insignificant Likelihood: Rare Risk Rating: Low	
		Regulatory Controls No specified conditions are required for the licence.	
		Residual Risk Consequence: Insignificant Likelihood: Rare Residual Risk Rating: Low	



Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Fugitive emissions	W2 and W3	Construction There will be no dust emissions during construction.	Application supporting documentation.
		No specified conditions relating to fugitive emissions are required for the works approval.	Construction Environmental Management Plan,
		 Operation Emission Description Emission: Dust emissions generated by the operation of the crushing and screening plant, heavy earthmoving equipment, light vehicle movements and loading from the material stockpile. Impact: Nuisance dust impacting on nearby residences (120m away) and dust coating native vegetation causing vegetation death (Tamala Park area adjacent to the site). Controls: Leighton has stated that the following dust management measures (outlined in their EPA approved Construction Environmental Management Plan – Dust and Air Quality Sub Plan) will be implemented during operation; Workforce inductions will include education on the minimisation of dust; The Guidelines for the Prevention of Dust and Smoke Pollution from Land Development Sites in Western Australia 1996 will be complied with during construction; Dust covers will be fitted to the crushing and screening plant prior to its operation. The plant is piped for dust suppression and comes with spray bars which shall be utilised during operation as required; Dust generation will be controlled/mitigated through the following measures where practicable; hydro mulch, water application through water carts and chemical dust suppressants. These will be applied to haul roads, cleared areas and stockpiles; All vehicles, if travelling outside of the project area, will be covered using tarpaulins etc. The construction site will be kept clean to minimise dust accumulation within and surrounding the site; 	Mitchell Freeway Extension project, Document No. E01000-EN-MNP- 2002 Rec01, Section 5.8 Dust and Air Quality Sub Plan. Guidelines for the Prevention of Dust ar Smoke Pollution from Land Development Sites in Western Australia 1996.

DECISION TAI	BLE		
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		 Stockpiles will be stabilised if left for longer than 72 hours and Maintain a complaints procedure and register 	
		Risk Assessment Consequence: Minor- localised short term health effects may occur, due to the close location of sensitive receptors (residential housing – 120m away). Likelihood: Unlikely Risk Rating: Moderate	
		Regulatory Controls No conditions regarding the management of dust is required to be added to the licence as Leighton are already required to operate under a approved Construction Environment Management Plan (CEMP) – Dust and Air Quality Management sub plan, as required under Ministerial statement 629. Condition 4.2.1 requires the CEMP to outline measures to comply with appropriate dust, noise, vibration, and light standards and quidelines during the construction of the Mitchell Freeway alignment of which the proposed crushing and screening plant is a part of.	
		Residual Risk Consequence: Minor Likelihood: Rare Residual Risk Rating: Low	
Odour	W2 and W3	Construction and Operation No odour emission is expected during construction and operation of the proposed crushing and screening plant.	Application supporting documentation.
		No specified conditions relating to odour emissions are required for the works approval or licence.	Environmental Protection (Unauthorised Discharges) Regulations 2004.



Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Noise	W2 and W3	Construction and Operation Emission Description Emission: Noise emissions generated by the construction and operation of the crushing and screening plant, heavy vehicle movements, loading of material Impact: Nuisance noise impacting on nearby residences (120m away). Controls: Leighton has stated that the following noise management measures will be implemented during operation of the plant; • An earthen bund (stockpiled material) will be placed around the crushing and screening plant to reduce noise levels received by sensitive receptors; • The plant will be operated during normal construction hours between 7am and 7pm (Mon- Sat, excluding public holidays), in accordance with the Environmental Protection (Noise) Regulations1997; • If in the unlikely event that the plant will need to operate outside of the above hours a stand alone noise management plan will be developed, approval from the City of Wanneroo will be obtained and all nearby residencies will be notified; • Workforce inductions will include education in relation to the minimisation of noise; • Maintenance schedules will be followed to ensure all equipment is in good working order; • Equipment will be inspected as required to ensure optimal working conditions; • A complaints register will be established and maintained. Risk Assessment Consequence: Minor Likelihood: Unlikely Risk Rating: Moderate Leighton has stated that the sound power level generated by the crushing and	Application supporting documentation. Environmental Protection (Noise) Regulations 1997. Construction Enviromental Management Plan – Mitchell Freeway Extention Project, Document No. W01000-EN-MNP-2002 Rev01, Section 5.7 Noise and Vibration Sub Plan.
		screening plant is approximately 120dB; earthwork noise levels are anticipated to be	



DECISION TABLE					
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents		
		115dB. At the closest receptor, the sound prediction has been modelled to be 51 dB (when taking into account attenuation from earthen bund and noise walls (these walls are part of the road construction along the freeway alignment. The walls will be in place prior to the plant operating). This is in accordance with the requirements set out in the <i>Environmental Protection (Noise) Regulations 1997</i> .			
		Regulatory Controls No conditions regarding the management of noise are required to be added to the licence as Leighton are already required to operate under a approved Construction Environment Management Plan (CEMP) – Noise and Vibration sub plan, as required under EPA Ministerial statement 629. Condition 4.2.1 (on statement) requires the CEMP to outline measures to comply with appropriate dust, noise, vibration, and light standards and quidelines during the construction of the Mitchell Freeway alignment of which the proposed crushing and screening plant is a part of.			
		Residual Risk Consequence: Minor Likelihood: Rare Residual Risk Rating: Low			
Monitoring general	W3	No general monitoring conditions will be included as there will be no monitoring requirements in the works approval or licence.	N/A.		
Monitoring of inputs and outputs	W3	No specified conditions relating to monitoring of inputs and outputs are required to be added to the works approval or licence.	N/A.		
Process monitoring	W3	No specified conditions relating to process monitoring are required to be added to the works approval or licence.	N/A.		
Ambient quality monitoring	W3	No specified conditions relating to ambient quality monitoring are required to be added to the works approval or licence.	N/A.		



DECISION TABLE							
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents				
Meteorological monitoring	W3	No specified conditions relating to meteorological monitoring are required to be added to the works approval or licence.	N/A.				
Improvements	W4	No specified conditions relating to improvements are required to be added to the works approval as this is a new site.	N/A.				
Information	W5.1.1 and W5.1.2	The works approval has conditions relating to the submission of a compliance document at the completion of the works. There are no specified conditions required for the licence.	General provisions of the <i>Environmental</i> <i>Protection Act 1986.</i>				
Licence Duration	N/A.	The works approval will be issued for three years.					

5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
24/08/2015	Application advertised in West Australian (or other relevant newspaper)	No comments recieved	Not applicable.
02/09/2015	Application referred to interested parties listed: City of Wanneroo	No comments received.	Not applicable.
09/09/2015	Proponent sent a copy of draft instrument	No comments received.	Not applicable.



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence					
	Insignificant	Minor	Moderate	Major	Severe	
Almost Certain	Moderate	High	High	Extreme	Extreme	
Likely	Moderate	Moderate	High	High	Extreme	
Possible	Low	Moderate	Moderate	High	Extreme	
Unlikely	Low	Moderate	Moderate	Moderate	High	
Rare	Low	Low	Moderate	Moderate	High	