Planning Secretary's Environmental Assessment Requirements

Section 4.12(8) of the *Environmental Planning and Assessment Act 1979*Schedule 2 of the Environmental Planning and Assessment Regulation 2000

Application Number	SSD-25725029
Project Name	Ardex Warehouse and Manufacturing Facility
Development	Construction and operation of a manufacturing plant to produce 48,000 tonnes per annum of powder and 25,000 tonnes per annum of liquid chemicals for cement works and related products and subdivision
Location	Proposed Lot 10, 657-769 Mamre Road, Kemps Creek in the Penrith City LGA
Applicant	Frasers Property Industrial Constructions Pty Ltd
Date of Issue	3 September 2021
General Requirements	The Environmental Impact Statement (EIS) for the development must meet the form and content requirements in clauses 6 and 7 of Schedule 2 of the Environmental Planning and Assessment Regulation 2000 (the Regulation). In addition, the EIS must include: • a detailed description of the development, including: – an accurate history of the site, including development consents – the need and justification for the proposed development – a description of processing operations (including flow diagrams for each processing stream), including a description of the technology to be installed, outputs and the quality control measures that would be implemented – details of how raw materials and finished product would be stored (including the maximum daily storage capacity of the site) and handled on site, and transported to and from the site – a description of the maximum daily, weekly and annual processing capacities – alternatives considered including a description of feasible options within the development which may include a layout options analysis – likely staging of the development – likely interactions between the development and existing, approved and proposed operations on the site and in the vicinity of the site – plans of any proposed building works – contributions required to offset the proposal and – infrastructure upgrades or items required to facilitate the development, including measures to ensure these upgrades are appropriately maintained. • consideration of all relevant environmental planning instruments, including identification and justification of any inconsistencies with these instruments • consideration of issues discussed in the public authority responses to request for key issues (Attachment 2) • a risk assessment of the potential environmental impacts of the development, identifying the key issues for further assessment • a detailed assessment of the potential impacts of all stages of the development, including any cumulative impacts, taking into consideration relevant guidelines, po

 an assessment demonstrating the proposal is consistent with the conditions, requirements and development standards of SSD 9522.

The EIS must also be accompanied by:

- high quality files of maps and figures of the subject site and proposal
- a report from a qualified quantity surveyor providing:
 - a detailed calculation of the capital investment value (CIV) of the proposal (as defined in clause 3 of the Regulation), including details of all assumptions and components from which the CIV calculation is derived. The report shall be prepared on company letterhead and indicate the applicable GST component of the CIV
 - an estimate of the jobs that will be created by the development during the construction and operational phases of the proposed development
 - certification that the information provided is accurate at the date of preparation.

Key issues

The EIS must include an assessment of the potential impacts of the proposal (including cumulative impacts) and develop appropriate measures to avoid, mitigate, manage and/or offset these impacts.

The EIS must address the following specific matters:

- Statutory and Strategic Context including:
 - detailed justification for the proposal and the suitability of the site
 - detailed justification that the proposed land use is permissible with consent
 - details of any proposed subdivision of land
 - a detailed description of the history of the site, including the relationship between the proposed development, other proposed developments and all development consents and approved plans previously and/or currently applicable to the site
 - demonstration that the proposal is consistent with all relevant planning strategies, environmental planning instruments, adopted precinct plans, draft district plan(s) and adopted management plans and justification for any inconsistencies. This includes, but is not limited to:
 - State Environmental Planning Policy (State and Regional Development) 2011
 - State Environmental Planning Policy (Infrastructure) 2007
 - State Environmental Planning Policy (Western Sydney Employment Area) 2009 (SEPP WSEA)
 - State Environmental Planning Policy (Western Sydney Aerotropolis)
 2020 (SEPP WSA)
 - State Environmental Planning Policy No 33 Hazardous and Offensive Development
 - State Environmental Planning Policy No 55 Remediation of Land
 - State Environmental Planning Policy No 64 Advertising and Signage
 - Greater Sydney Region Plan A Metropolis of Three Cities
 - Our Greater Sydney 2056: Western City District Plan
 - Future Transport Strategy 2056 and supporting plans
 - Mamre Road Precinct Structure Plan (DPIE, 2020) and the Local Road Network Structure Plan
 - Western Sydney Aerotropolis Plan (DPIE, 2020)
 - Draft/Final Mamre Road Precinct Development Control Plan.

Suitability of the site – including

- detailed justification that the site can accommodate the proposed development having regard to its potential environmental impacts, site constraints, permissibility and strategic context.
- an analysis of site constraints
- Community and Stakeholder Engagement a community and stakeholder participation strategy identifying key community members and other stakeholders including:
 - details and justification for the proposed consultation approach(s)
 - clear evidence of how each stakeholder identified in the community and stakeholder participation strategy has been consulted
 - issues raised by the community and surrounding landowners and occupiers

- clear details of how issues raised during consultation have been addressed and whether they have resulted in changes to the development
- details of the proposed approach to future community and stakeholder engagement based on the results of consultation.
- Traffic and Transport including a quantitative traffic impact assessment prepared in accordance with relevant Roads and Maritime Services and Austroads guidelines, that includes:
 - details of all daily and peak traffic volumes likely to be generated during construction and operation, including a description of key access / haul routes, vehicle types and potential queuing impacts
 - an assessment of the predicted impacts of traffic on road safety and the capacity of the road network, including consideration of cumulative traffic impacts at key intersections using SIDRA or similar traffic model. This is to include the identification and consideration of approved and proposed developments/planning proposals/road upgrades in the vicinity, including SSD-9522. The assessment needs to consider the impact on Mamre Road at Bakers Lane (Aldington Road) for the duration of the works.
 - details of vehicles waiting to unload, unloading / servicing, including predicted haulage routes, including over size over mass vehicles and impacts to the state road network
 - detailed plans of all proposed site access points, justification for their location and an assessment of potential traffic impacts from the proposed access points
 - detailed plans of the proposed layout of the internal road and pedestrian network and parking on site in accordance with the relevant Australian Standards and Mamre Road Precinct Development Control Plan
 - demonstrating compliance with clause 33C of the SEPP WSEA, specifically the integration with the Mamre Road Precinct dedicated freight corridor (DFC) including provision for access from the DFC to the entire estate
 - swept path diagrams depicting vehicles entering, exiting and manoeuvring throughout the site
 - details of road upgrades, infrastructure works or new roads or access points required for the development.
- Soils and Water a surface and groundwater assessment that includes:
 - an assessment of potential surface and groundwater impacts on watercourses, riparian areas, groundwater, groundwater-dependent communities nearby, adjacent licensed water users, and measures proposed to reduce and mitigate these impacts
 - a detailed site water balance including a description of the water demands and breakdown of water supplies, and any water licensing requirements
 - details of stormwater/wastewater management system including the capacity of onsite detention system(s), onsite sewage management and measures to treat, reuse or dispose of water
 - description of the measures to minimise water use
 - consideration of the NSW Aquifer Interference Policy (2012), the Guidelines for Controlled Activities on Waterfront Land (2018) and relevant Water Sharing Plans
 - detailed flooding assessment including the management of flood prone land and potential impacts of the development on flood evacuation. To assess the impacts of the proposed development, information for pre and postdevelopment scenarios including modelling of the local overland flows are to be included
 - characterisation of water quality at the point of discharge to surface and/or groundwater against the relevant water quality criteria
 - a Water Cycle Management Strategy that considers on-lot stormwater management measures, adequate disposal of stormwater and avoids negative impacts downstream
 - modelling undertaken in accordance with the MUSIC modelling toolkit and stormwater quality and flow targets, a flow duration curve spreadsheet and MUSIC model file
 - description of the proposed erosion and sediment controls during construction.

- Urban Design and Visual a visual impact assessment (including photomontages and perspectives) of the development layout and design, including:
 - a detailed design and options analysis of the development including diagrams, illustrations and drawings with reference to the built form, height, setbacks, bulk and scale in the context of the immediate locality, the wider area, the desired future character of the area and consideration of Clause 31 of SEPP WSEA
 - a visual impact assessment (including photomontages and perspectives) of the development layout and design (buildings and storage areas) including details of staging, site coverage, setbacks, open space, landscaping, height, colour, scale, building materials and finishes, façade design, signage and lighting. The assessment must consider potential impacts on:
 - views, vistas, open space, the Wianamatta-South Creek corridor and significant vantage points in the broader public domain
 - nearby public and private receivers
 - consideration of the layout and design of the development having regard to the surrounding vehicular, pedestrian and cycling networks
 - detailed plans showing suitable landscaping which incorporates endemic species and maximises opportunities for green infrastructure.
- Air Quality and Odour a quantitative assessment of the potential air quality, dust and odour impacts of the development (construction and operation) on sensitive receivers, in accordance with relevant Environment Protection Authority guidelines and details of proposed mitigation, management and monitoring measures.
- Noise and Vibration a quantitative noise and vibration impact assessment undertaken by a suitably qualified acoustic consultant in accordance with the relevant Environment Protection Authority guidelines and Australian Standards which includes:
 - the identification of impacts associated with construction, site emission and traffic generation at noise affected sensitive receivers, including the provision of operational noise contours and a detailed sleep disturbance assessment
 - details of noise monitoring survey, background noise levels, noise source inventory and 'worst case' noise emission scenarios
 - consideration of annoying characteristics of noise and prevailing meteorological conditions in the study area
 - a cumulative impact assessment inclusive of impacts from other developments
 - details and analysis of the effectiveness of proposed management and mitigation measures to adequately manage identified impacts, including a clear identification of residual noise and vibration following application of mitigation these measures and details of any proposed compliance monitoring programs.
- Infrastructure Requirements an infrastructure management plan that includes:
 - a detailed written and/or graphical description of infrastructure required on site
 - details of the existing capacity of the site to service the proposed development and any extension or augmentation, property tenure or staging requirements for the provision of utilities, including arrangements for electrical network requirements, drinking water, wastewater and recycled water
 - a description of how any upgrades will be co-ordinated, funded and delivered on time and be maintained to facilitate the development
 - identify the existing infrastructure on the site or within the network which may be impacted by the construction and operation of the proposal and the measures to be implemented to address any impacts on this infrastructure.
- Aboriginal Cultural Heritage an addendum to the existing Aboriginal Cultural Heritage Assessment Report (ACHAR) Mamre South Precinct State Significant Development Proposed Warehouse, Logistics and Industrial Facilities Hub: ACHAR prepared by Biosis and dated 31 July 2020. The addendum must summarise the test and salvage excavations undertaken to date and detail whether the test and salvage excavation results require a refinement of the predictive model. If the predictive model has substantially changed, then a new ACHAR and additional Aboriginal consultation with the existing Registered Aboriginal Parties (RAPs) must be undertaken.

- Biodiversity an assessment of the proposal's biodiversity impacts in accordance with the *Biodiversity Conservation Act 2016*, including the preparation of a Biodiversity Development Assessment Report (BDAR) where required under the Act, except where a waiver for preparation of a BDAR has been granted.
- Social Impact including:
 - a social impact assessment in accordance with the Department's Draft Social Impact Assessment Guideline – State significant projects (October 2020)
 - an analysis of any potential economic impacts of the development, including a discussion of any potential economic benefits to the local and broader community.
- Ecologically Sustainable Development including:
 - a description of how the proposal will incorporate the principles of ecologically sustainable development in the design, construction and ongoing operation of the development
 - consideration of the use of green walls, green roofs and/or cool roofs in the design of the development
 - a description of the measures to be implemented to minimise consumption of resources, especially energy and water.
- Waste management including details of the quantities and classification of waste streams generated during construction and operation and proposed storage, handling and disposal requirements.
- **Bush Fire** a bush fire assessment report that addresses the aims and objectives of Planning for Bushfire Protection 2019
- Hazards and Risk including a preliminary risk screening completed in accordance with State Environmental Planning Policy No. 33 Hazardous and Offensive Development and Applying SEPP 33 (DoP, 2011) with a clear indication of class, storage and handling quantities and location of all dangerous goods and hazardous materials associated with the development. Should preliminary screening indicate that the project is "potentially hazardous" a Preliminary Hazard Analysis (PHA) must be prepared in accordance with Hazardous Industry Planning Advisory Paper No. 6 Guidelines for Hazard Analysis (DoP, 2011) and Multi-Level Risk Assessment (DoP, 2011).
- Greenhouse Gas and Energy Efficiency including an assessment of the
 energy use of the proposal and all reasonable and feasible measures that would
 be implemented on site to minimise the proposal's greenhouse gas emissions
 (reflecting the Government's goal of net zero emissions by 2050).
- Airport Safeguarding including a risk assessment of the proposed development on Western Sydney Airport operations, addressing the Western Sydney Aerotropolis Plan and the State Environmental Planning Policy (Western Sydney Aerotropolis) 2020. The assessment is to address the emissions associated with the exhaust stacks on the Obstacle Limitation Surface.
- Planning Agreement/Development Contributions including consideration of any applicable State and local development contributions and/or details of any Voluntary Planning Agreement and demonstration that satisfactory arrangements have been made or will be made to provide or contribute to the provision of the necessary local and regional infrastructure required by SEPP WSEA or any other policy or plan.

Consultation

During the preparation of the EIS, you must consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups and affected landowners.

In particular you must consult with:

- Penrith City Council
- Department of Planning, Industry and Environment, specifically the:
 - Central (Western) team, Place Design and Public Spaces Group
 - o Environment, Energy and Science Group
 - Environment Protection Authority
- Endeavour Energy
- Transport for NSW
- Rural Fire Service
- Sydney Water

	 WaterNSW Western Sydney Airport Corporation Civil Aviation Safety Authority Western Sydney Planning Partnership surrounding local landowners and stakeholders The EIS must describe the consultation process and the issues raised and identify where the design of the development has been amended in response to these issues. Where amendments have not been made to address an issue, a short explanation should be provided.
SEARs Expiry	SEARs will expire two years after the date of issue (or the date they were last modified).
References	The assessment of the key issues listed above must take into account relevant guidelines, policies, and plans as identified. While not exhaustive, Attachment 1 contains a list of some of the guidelines, policies, and plans that may be relevant to the environmental assessment of this proposal.

ATTACHMENT 1 Technical and Policy Guidelines

The following guidelines may assist in the preparation of the environmental impact statement. This list is not exhaustive and not all of these guidelines may be relevant to your proposal.

Many of these documents can be found on the following websites:

http://www.planning.nsw.gov.au

http://www.shop.nsw.gov.au/index.jsp

http://www.australia.gov.au/publications

http://www.epa.nsw.gov.au/

http://www.environment.nsw.gov.au/

http://www.dpi.nsw.gov.au/

Plans and Documents

The EIS must include all relevant plans, architectural drawings, diagrams and relevant documentation required under Schedule 1 of the Environmental Planning and Assessment Regulation 2000. Provide these as part of the EIS rather than as separate documents.

In addition, the EIS must include the following:

- 1. An existing site survey plan drawn at an appropriate scale illustrating:
 - the location of the land, boundary measurements, area (sqm) and north point
 - the existing levels of the land in relation to buildings and roads
 - location and height of existing structures on the site
 - location and height of adjacent buildings and private open space
 - all levels to be to Australian Height Datum (AHD).
- 2. Locality/context plan drawn at an appropriate scale should be submitted indicating:
 - significant local features such as heritage items
 - the location and uses of existing buildings, shopping and employment areas
 - traffic and road patterns, pedestrian routes and public transport nodes.
- 3. Drawings at an appropriate scale illustrating:
 - detailed plans, sections and elevations of the existing building, which clearly show all proposed buildings
 - detailed plans of proposed access driveways, internal roads, carparking and external alterations services infrastructure.
- 4. Schedule of materials, colours and finishes.

Documents to be Submitted

Documents to submit include:

- one (1) electronic copy of all the documents and plans for review prior to exhibition
- other copies as determined by the Department once the development application is lodged.

Contamination

Aspect	Policy / Methodology
Engagement	1 Oney / Methodology
Lingagement	Undertaking Engagement Guide – Guidance for State Significant Projects
	Exhibition Draft (DPIE, 2020)
Traffic, Transport and	Access
	Roads Act 1993
	State Environmental Planning Policy (Infrastructure) 2007
	Guide to Traffic Generating Development (RTA, 2002 as updated)
	Road Design Guide (RMS, 2015-2017)
	Guide to Traffic Management – Pt 12: Traffic Impacts of Developmer (Austroads, 2016)
	Guidelines for Planning and Assessment of Road Freight Access in Industria Areas (Austroads, 2014)
	Bicycle Parking Facilities: Guidelines for Design and Installatio (AS 2890.3:2015)
	Integrated Public Transport Service Planning Guidelines: Sydney Metropolita Area (TfNSW, 2013)
	Future Transport Strategy 2056 (TfNSW, 2018)
	Greater Sydney Services and Infrastructure Plan (TfNSW, 2018)
	NSW Freight & Ports Plan 2018-2023 (TfNSW, 2018)
Soils and Water	
	Managing Urban Stormwater: Soils & Construction (Landcom, 2004)
Erosion and Sediment	Soil and Landscape Issues in Environmental Impact Assessment (DLWC 2000)
	Wind Erosion – 2nd Edition (DIPNR, 2003)
	National Water Quality Management Strategy Guidelines for Groundwate Protection in Australia (ARMCANZ/ANZECC, 2000)
	NSW State Groundwater Policy Framework Document (DLWC, 1997)
Groundwater	NSW Aquifer Interference Policy (NOW, 2012)
o, our rawater	Water Sharing Plan for the Greater Metropolitan Region Groundwater Source (NOW, 2011)
	Guidelines for Controlled Activities on Waterfront Land (2018)
	Storing and Handling Liquids: Environmental Protection (DECC, 2007)
	Managing Urban Stormwater: Strategic Framework. Draft (EPA, 1996)
	Managing Urban Stormwater: Council Handbook. Draft (EPA, 1997)
Stormwater	Managing Urban Stormwater: Treatment Techniques (DEC, 2006)
	Managing Urban Stormwater: Source Control. Draft (EPA, 1998)
	Managing Urban Stormwater: Harvesting and Reuse (DEC, 2006)
	National Water Quality Management Strategy: Guidelines for Sewerag Systems - Effluent Management (ARMCANZ/ANZECC, 1997)
	National Water Quality Management Strategy: Guidelines for Sewerag Systems - Use of Reclaimed Water (ARMCANZ/ANZECC, 2000)
Wastewater	National Water Quality Management Strategy – Guidelines for Water Recycling Managing Health and Environmental Risks (Phase 1) (EPHC, NRMMC AHMC, 2006)
	National Water Quality Management Strategy – Guidelines for Water Recycling Managing Health and Environmental Risks (Phase 2) (EPHC, NRMMC AHMC, 2009)
	State Environmental Planning Policy No. 55 – Remediation of Land

Managing Land Contamination Planning Guidelines, SEPP 55 – Remediation of Land (DUAP & EPA, 1998)

Policies, Guidelines & Plans

Aspect	Policy / Methodology
Hazards and Risk	
114141404114111	State Environmental Planning Policy No. 33 – Hazardous and Offensive
	Development Development
	Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DoP, 2011)
	Assessment Guideline: Multi-level Risk Assessment (Planning and Infrastructure, 2011)
Biodiversity	minastration, 2011)
2.000	Biodiversity Conservation Act 2016
	Biodiversity Assessment Method (EES, 2021)
	Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018)
Heritage	Culdelines for Controlled Activities on Waterford Land (WITAIX, 2010)
пенауе	Haritaga Act 1077
	Heritage Act 1977
Non-Aboriginal Heritage	NSW Heritage Manual (HO and DUAP, 1996)
	The Burra Charter (ICOMOS Australia, 2013)
	Statements of Heritage Impact (HO and DUAP, 2002)
	Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010)
Aboriginal Heritage	Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011)
	Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010)
Noise and Vibration	
	Acoustics - Description and measurement of environmental noise
	(AS1055:2018)
	Noise Policy for Industry (EPA, 2017)
	NSW Road Noise Policy (DECCW, 2011)
	Noise Criteria Guideline (RMS, 2015)
	Noise Mitigation Guideline (RMS, 2015)
	Interim Construction Noise Guideline (DECC, 2009)
	Assessing Vibration: A Technical Guide (DEC, 2006)
	Noise Guide for Local Government (EPA, 2013)
Air Quality	
7	Protection of the Environment Operations (Clean Air) Regulation 2010
	Approved Methods for the Sampling and Analysis of Air Pollutants in New South
Air Quality	Wales (DEC, 2007)
,	Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (EPA, 2016)
Odour	Assessment and Management of Odour from Stationary Sources in NSW (DEC
	2006)
	AGO Factors and Methods Workbook (AGO, 2018)
	Guidelines for Energy Savings Action Plans (DEUS, 2005)
Greenhouse Gas	National Greenhouse and Energy Reporting Scheme Measurement, Technical Guidelines for the estimation of emissions by facilities in Australia (Department of the Environment and Energy (DoEE), 2017)
	National Greenhouse Accounts Factors (DoEE, 2019)
Bush Fire	· · · · · · · · · · · · · · · · · · ·
	Planning for Bush Fire Protection (RFS, 2019)
Waste	
- , 0000	NSW Waste and Sustainable Material Strategy 2041 (EPA, 2021)
	Tradio and outlands material offatogy 2041 (El A, 2021)

Policies, Guidelines & Plans

Aspect	Policy / Methodology
	NSW Plastics Action Plan (EPA, 2021)
	NSW Energy from Waste Policy Statement (EPA, 2021)
	The National Waste Policy: Less Waste More Resources 2009
	Waste Classification Guidelines (EPA, 2014)
	Environmental guidelines: Composting and Related Organics Processing Facilities (DEC, 2004)
	Environmental guidelines: Use and Disposal of Biosolid Products (EPA, 1997)
	Composts, soil conditioners and mulches (Standards Australia, AS 4454)
	Standards for Managing Construction Waste in NSW (EPA, 2018)
Urban Design and Visual	
	Control of Obtrusive Effects of Outdoor Lighting (AS 2482)
	Better Placed (Government Architect NSW, 2017)
	Greener Places (Government Architect NSW, 2020)
Social	
	Social Impact Assessment Guideline (DPIE, 2021)

ATTACHMENT 2 Government Authority Advice