

Mr Ross Smith
Fairfield City Council
PO Box 21
FAIRFIELD NSW 1860

17/01086

SSD 8184

Dear Mr Smith

**State Significant Development
Revised Planning Secretary's Environmental Assessment Requirements
Fairfield Sustainable Resource Centre Expansion (SSD 8184)**

I refer to the Planning Secretary's Environmental Assessment Requirements (SEARs) issued on 27 January 2017 and our meeting held on 25 February 2019 regarding the above project. Two years have passed since the SEARs were issued. Accordingly, a copy of reissued SEARs is attached.

The SEARs have been amended to update the development description and location and to provide additional requirements in relation to the following key issues:

- Community and Stakeholder Engagement
- Waste Management
- Soil and Water
- Air Quality and Odour
- Noise and Vibration
- Traffic and Transport
- Fire and Incident Management.

The Department has not carried out additional consultation with the government agencies. The comments and requirements previously provided in Attachment 2 remain valid. Please note that the Secretary may alter the SEARs at any time. You must consult further with the Secretary if you do not lodge a development application and Environmental Impact Statement (EIS) for the development by 6 May 2021.

The Department notes that the site currently operates under a separate consent. The Department prefers operations like the Fairfield Sustainable Resource Centre to operate under a single, modern planning approval. Consequently, the Department encourages you to develop the project with this preference in mind, and to consider surrendering all of the existing planning approvals for the facility if the project is approved.

I wish to emphasise the importance of effective and genuine community consultation and the need for the proposal to proactively respond to the community's concerns. Accordingly, you must undertake a comprehensive, detailed and genuine community consultation and engagement process during the preparation of the EIS. This process must ensure that the community is informed of the development and engaged with issues of concern to them. Sufficient information must be provided to the community to enable a good understanding of the development and any potential impacts.

Your development may require separate approval under the provisions of the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). If an EPBC Act

approval is required, please advise the Department accordingly, as the Commonwealth assessment process may be integrated into the NSW assessment process, and supplementary SEARs may need to be issued.

Please contact the Department at least two weeks before you intend lodge the EIS and any associated documentation for the development. This will enable the Department to determine the:

- applicable fee (under Division 1AA, Part 15 of the Environmental Planning and Assessment Regulation 2000)
- consultation and public exhibition arrangements, including copies and format requirements of the EIS.

If you have any enquiries about these SEARs, please contact Bianca Thornton on the above details.

Yours sincerely



Chris Ritchie

Director

Industry Assessments

as delegate of the Planning Secretary

6/5/19.

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*

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| Application Number | SSD 8184 |
| Project Name | Fairfield Sustainable Resource Centre Expansion |
| Development | Expansion of an existing resource recovery facility to increase the processing capacity to 550,000 tonnes per annum (tpa) of waste. |
| Location | Hassall Street and Widemere Road, Wetherill Park, in the Fairfield local government area, comprising: <ul style="list-style-type: none"> • Lot 1 DP 515773 • Lot 34 DP 657040 • Lots 35 and 37 DP 3082 • Lot 100 DP 1220637 • Lots 1 and 2 DP 620755 • Lot 1 DP 368374. |
| Applicant | Fairfield City Council |
| Date of Issue | 6 May 2019 |
| General Requirements | <p>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 <i>Environmental Planning and Assessment Regulation 2000</i>.</p> <p>In addition, the EIS must include:</p> <ul style="list-style-type: none"> • a detailed description of the development, including: <ul style="list-style-type: none"> – existing operations carried out on the site and how the site operates lawfully under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) including any reliance on existing use rights and/or planning approvals and how these will be consolidated – accurate history of the site, including development consents – need for the proposed development – justification for the proposed development – likely staging of the development – likely interactions between the development and existing, approved and proposed operations in the vicinity of the site – plans of any proposed building works • demonstration that the site is suitable for the proposed use in accordance with <i>State Environmental Planning Policy No 55 – Remediation of Land</i> • consideration of all relevant environmental planning instruments, including identification and justification of any inconsistencies with these instruments • consideration of issues discussed in Attachment 2 (public authority responses to key issues) • risk assessment of the potential environmental impacts of the development, identifying the key issues for further assessment • detailed assessment of the key issues specified below, and any other significant issues identified in this risk assessment, which includes: <ul style="list-style-type: none"> – a description of the existing environment, <u>using sufficient baseline data</u> – an assessment of the potential impacts of all stages of the development, including any cumulative impacts, taking into consideration relevant guidelines, policies, plans and statutes – a description of the measures that would be implemented to avoid, minimise and if necessary, offset the potential impacts of the development, including proposals for adaptive management and/or contingency plans to manage any significant risks to the environment |

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| | <ul style="list-style-type: none"> a consolidated summary of all the proposed environmental management and monitoring measures, highlighting commitments included in the EIS. <p>The EIS must also be accompanied by a report from a qualified quantity surveyor providing:</p> <ul style="list-style-type: none"> a detailed calculation of the capital investment value (as defined in clause 3 of the <i>Environmental Planning and Assessment Regulation 2000</i>) of the proposal, including details of all assumptions and components from which the CIV calculation is derived a close estimate of the jobs that will be created by the development during the construction and operational phases of the development certification that the information provided is accurate at the date of preparation. |
| Key issues | <p>The EIS must address the following specific matters:</p> <ul style="list-style-type: none"> Community and Stakeholder Engagement – including: <ul style="list-style-type: none"> a detailed community and stakeholder participation strategy which identifies who in the community has been consulted and a justification for their selection, other stakeholders consulted and the form(s) of the consultation, including a justification for this approach a report on the results of the implementation of the strategy including issues raised by the community and surrounding occupiers and landowners that may be impacted by the proposal details of how issues raised during community and stakeholder consultation have been addressed and whether they have resulted in changes to the proposal details of the proposed approach to future community and stakeholder engagement based on the results of the consultation. Waste Management – including: <ul style="list-style-type: none"> a description of the waste streams that would be accepted at the site including the maximum daily, weekly and annual throughputs and the maximum size and heights for stockpiles a description of waste processing operations (including flow diagrams for each waste stream), including a description of the technology to be installed, resource outputs, and the quality control measures that would be implemented details of how waste would be stored and handled on site, and transported to and from the site including details of how the receipt of non-conforming waste would be dealt with detail the developments waste tracking system for incoming and outgoing waste detail the quality of waste produced and final dispatch locations the measures that would be implemented to ensure that the development is consistent with the aims, objectives and guidance in the <i>NSW Waste Avoidance and Resource Recovery Strategy 2014-2021</i>. Soil and Water – including: <ul style="list-style-type: none"> an assessment of potential impacts to soil and water resources, topography, hydrology, drainage lines, watercourses and riparian lands on or nearby to the site a detailed site water balance, including identification of water requirements for the life of the project, measures that would be implemented to ensure an adequate and secure water supply is available for the proposal and a detailed description of the measures to minimise the water use at the site characterisation of water quality at the point of discharge to surface and/or groundwater against the relevant water quality criteria (including details of the contaminants of concern that may leach from the waste into the wastewater and proposed mitigation measures to manage any impacts to receiving waters) details of stormwater/wastewater/leachate management systems including the capacity of onsite detention systems, and measures to treat, reuse or dispose of water |

- a description of erosion and sediment controls
- a flood assessment utilising the latest hydraulic model from Fairfield City Council's *Prospect Creek Floodplain Management Plan Review* to determine base case scenario and the potential impacts for the full range of flooding up to the probable maximum flood
- characterisation of the nature and extent of any contamination on the site and a description of proposed management measures.
- **Air Quality and Odour** – including:
 - a quantitative assessment of the potential air quality, dust and odour impacts of the development in accordance with relevant Environment Protection Authority guidelines. This is to include the identification of existing and potential future sensitive receivers and consideration of approved and/or proposed developments in the vicinity
 - the details of buildings and air handling systems and strong justification for any material handling, processing or stockpiling external to a building
 - a greenhouse gas assessment
 - details of proposed mitigation, management and monitoring measures.
- **Noise and Vibration** – including:
 - a quantitative assessment of potential construction, operational and transport noise and vibration impacts in accordance with relevant Environment Protection Authority guidelines
 - details of the specific times of operation for all phases of the development and for all noise producing activities
 - details and justification of the proposed noise mitigation and monitoring measures.
- **Traffic and Transport** – including:
 - details of all traffic types and volumes likely to be generated during construction and operation, including a description of haul routes
 - an assessment of the predicted impacts of this 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
 - detailed plans of the proposed layout of the internal road network, pedestrian network and parking on site in accordance with the relevant Australian Standards
 - plans of any proposed road upgrades, infrastructure works or new roads required for the development
 - plans demonstrating how all vehicles associated with construction and operation awaiting loading, unloading or servicing can be accommodated on the site to avoid queuing in the street network
 - turning path diagrams depicting vehicles entering, exiting and manoeuvring throughout the site.
- **Flora and Fauna** – including:
 - an assessment of the proposal under the *Framework for Biodiversity Assessment* including an assessment of any potential impacts on aquatic and riparian vegetation and groundwater dependent ecosystems
 - an assessment of impacts to the Western Sydney Parklands in accordance with relevant Office of Environment and Heritage guidelines and proposed mitigation measures.
- **Filling Works** – including:
 - a detailed plan addressing the filling of "Canal Road" gully including materials and volumes to be used
 - proposed quality control measures.
- **Hazards** – 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, quantity 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*

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| | <p><i>Industry Planning Advisory Paper No. 6 - Guidelines for Hazard Analysis</i> (DoP, 2011) and <i>Multi-Level Risk Assessment</i> (DoP, 2011).</p> <ul style="list-style-type: none"> • Fire and Incident Management – including: <ul style="list-style-type: none"> – identification of the aggregate quantities of combustible waste products to be stockpiled at any one time and a detailed plan showing the size and volume of each stockpile – technical information on the environmental protection equipment to be installed on the premises such as air, water and noise controls, spill clean-up equipment and fire (including location of fire hydrants and water flow rates at the hydrant) management and containment measures. • Heritage and Aboriginal Cultural Heritage • Visual – including an assessment of the potential visual impacts of the project on the amenity of the surrounding area. |
| Plans and Documents | <p>The EIS must include all relevant plans, architectural drawings, diagrams and relevant documentation required under Schedule 1 of the <i>Environmental Planning and Assessment Regulation 2000</i>. These documents should be included as part of the EIS rather than as separate documents.</p> |
| Consultation | <p>During the preparation of the EIS, you must consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups and potentially affected landowners.</p> <p>In particular you must consult with:</p> <ul style="list-style-type: none"> • Cumberland Council • Environment Protection Authority • Office of Environment and Heritage • Department of Primary Industries • WaterNSW • Fire and Rescue NSW • Roads and Maritime Services • nearby land owners and occupiers that may be affected by the proposal. <p>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.</p> |
| Further consultation after 2 years | <p>If you do not lodge an EIS for the development within 2 years of the issue date of these SEAR's, you must consult with the Planning Secretary in relation to the requirements for lodgement.</p> |
| References | <p>The assessment of the key issues listed above must take into account relevant guidelines, policies, and plans as identified. While not exhaustive, the following attachment contains a list of some of the guidelines, policies, and plans that may be relevant to the environmental assessment of this development.</p> |

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.bookshop.nsw.gov.au>

<http://www.publications.gov.au>

Policies, Guidelines & Plans

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 (sq. m) 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. A locality/context plan drawn at an appropriate scale should be submitted indicating:
 - watercourses including nearby rivers and creeks, and dams
 - significant local features such as heritage items
 - the location and uses of nearby buildings, shopping and employment areas, hospitals and schools
 - traffic and road patterns, pedestrian routes and public transport nodes.
3. An indication of the location of the site with respect to the relevant Land Zoning Map within the *Shoalhaven Local Environment Plan 2014*.
4. Drawings at an appropriate scale illustrating:
 - detailed plans, sections and elevations of the existing building, which clearly show all proposed internal and external alterations and additions.

Documents to be submitted

Documents to submit include:

- 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.

Technical and Policy Guidelines

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Policies, Guidelines & Plans

| Aspect | Policy /Methodology |
|-----------------------|---|
| Waste | Waste Avoidance and Resource Recovery Strategy 2010-2021 (EPA) |
| | The National Waste Policy: Less Waste More Resources 2009 |
| | Waste Classification Guidelines (EPA, 2014) |
| | Environmental guidelines: Composting and Related Organics Processing Facilities (DEC) |
| | Environmental guidelines: Use and Disposal of Biosolid Products (EPA) |
| | Composts, soil conditioners and mulches (Standards Australia, AS 4454) |
| Soil and Water | |
| <i>Soil</i> | Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC & NHMRC) |
| | National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPC) |
| | Draft Guidelines for the Assessment & Management of Groundwater Contamination (DECC) |
| | State Environmental Planning Policy No. 55 – Remediation of Land |
| | Managing Land Contamination – Planning Guidelines SEPP 55 – Remediation of Land (DOP) |
| <i>Surface</i> | Acid Sulfate Soils Manual (Stone et al. 1998) |
| | National Water Quality Management Strategy: Water quality management - an outline of the policies (ANZECC/ARMCANZ) |
| | National Water Quality Management Strategy: Policies and principles - a reference document (ANZECC/ARMCANZ) |
| | National Water Quality Management Strategy: Implementation guidelines (ANZECC/ARMCANZ) |
| | National Water Quality Management Strategy: Australian Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ) |
| | National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting (ANZECC/ARMCANZ) |
| | Using the ANZECC Guideline and Water Quality Objectives in NSW (DEC) |
| | NSW State Rivers and Estuaries Policy (1993) |
| | State Water Management Outcomes Plan |
| | NSW Government Water Quality and River Flow Environmental Objectives (DECC) |
| | Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC) |
| | Managing Urban Stormwater: Soils & Construction (Landcom) |
| | Managing Urban Stormwater: Treatment Techniques (DECC) |
| | Managing Urban Stormwater: Source Control (DECC) |
| | Technical Guidelines: Bunding & Spill Management (DECC) |
| <i>Groundwater</i> | NSW Floodplain Development Manual 2005 |
| | NSW Guidelines for Controlled Activities on Waterfront Land (NOW, 2012) |
| | National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC) |
| | NSW State Groundwater Policy Framework Document 1997 (DLWC) |

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| <i>Wastewater</i> | NSW State Groundwater Quality Protection Policy 1998 (DLWC) |
| | NSW State Groundwater Dependent Ecosystems Policy (2002) |
| | NSW State Groundwater Quantity Management Policy 2002 (DLWC) |
| | Guidelines for the Assessment and Management of Groundwater Contamination (DEC 2007) |
| | NSW Aquifer Interference Policy (NOW, 2012) |
| | MDBC Guidelines on Groundwater Flow Modelling 2000 |
| | Australian Groundwater Modelling Guidelines (NWC, 2012) |
| | Environmental Guidelines: Use of Effluent by Irrigation (DECC) |
| | National Water Quality Management Strategy - Guidelines For Water Recycling: Managing Health And Environmental Risks (Phase1) 2006 (EPHC, NRMMC & AHMC) |
| | National Water Quality Management Strategy – Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 2): Augmentation of Drinking Water Supplies 2008 (EPHC, NRMMC & AHMC) |
| <i>Air Quality and Odour</i> | National Water Quality Management Strategy: Guidelines for Sewerage Systems - Effluent Management (ARMCANZ/ANZECC) |
| | National Water Quality Management Strategy: Guidelines for Sewerage Systems - Use of Reclaimed Water (ARMCANZ/ANZECC) |
| | Recycled Water Guidance Document: Recycled Water Management Systems (DPI, 2015) |
| <i>Air Quality</i> | Protection of the Environment Operations (Clean Air) Regulation 2010 |
| | Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC) |
| | Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (DEC) |
| <i>Odour</i> | The National Greenhouse and Energy Reporting (Measurement) Technical Guidelines (NGER Technical Guidelines) |
| | Guidelines for Energy Savings Action Plans (DEUS, 2005) |
| | Technical Framework: Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006) |
| <i>Noise and Vibration</i> | Technical Notes: Assessment and Management of Odour from Stationary Sources in NSW (DEC) |
| | Noise Policy for Industry (EPA, 2017) |
| | NSW Road Noise Policy (EPA, 2011) |
| <i>Noise</i> | Environmental Criteria for Road Traffic Noise (EPA) |
| | Interim Construction Noise Guideline (DECC, 2009) |
| <i>Vibration</i> | Assessing Vibration: A Technical Guideline (DEC, 2006) |
| Traffic and Transport | |
| | Guide to Traffic Generating Development (RTA) |
| | Road Design Guide (RTA) |
| Flora and Fauna | |
| | Framework for Biodiversity Assessment (OEH, 2014) |
| Hazards | |
| | State Environmental Planning Policy No. 33 – Hazardous and Offensive Development |
| | Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DUAP) |
| | AS/NZS 4360:2004 Risk Management |
| | HB 203:2006 Environmental Risk Management – Principles and Process |
| | Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis |
| | Planning Advisory Paper No. 4 – Risk Criteria for Land Use Safety Planning (DUAP) |
| | Contaminated Sites – Guidelines on Significant Risk of Harm from Contaminated Land and the Duty to Report (EPA 2003) |

Heritage

Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011)

Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010)

Draft Guidelines for Aboriginal Cultural Impact Assessment and Community Consultation (Department of Planning, 2005)

Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010)

NSW Heritage Manual (DUAP)

Visual

Control of Obtrusive Effects of Outdoor Lighting (Standards Australia, AS 4282)

State Environmental Planning Policy No 64 – Advertising and Signage

ATTACHMENT 2
Public Authority Responses to Request for Key Issues



20 January 2017

Our Reference: SYD17/00059 (A15803605)
DP&E Ref: SSD 8184

Manager
Industry Assessments
Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

Attention: Bianca Thornton

Dear Sir/Madam,

**REQUEST FOR SEARS - EXPANSION OF FAIRFIELD SUSTAINABLE RESOURCE CENTRE
CORNER OF HASSALL STREET AND WIDEMERE ROAD, WETHERILL PARK**

Reference is made to the Department of Planning and Environment (DP&E) email dated 10 January 2017 requesting Roads and Maritime Services (Roads and Maritime) to provide details of key issues and assessment requirements regarding the abovementioned development for inclusion in the Secretary's Environmental Assessment Requirements (SEARs).

Roads and Maritime require the following issues to be included in the transport and traffic impact assessment of the proposed development:

1. Daily and peak traffic movements likely to be generated by the proposed development including the impact on nearby intersections and the need/associated funding for upgrading or road improvement works (if required).
2. Details of the proposed accesses and the parking provisions associated with the proposed development including compliance with the requirements of the relevant Australian Standards (ie: turn paths, sight distance requirements, aisle width, etc).
3. Proposed number of car parking spaces and compliance with the appropriate parking codes.
4. Details of service vehicle movements (including vehicle type and likely arrival and departure times).

Any inquiries in relation to this application can be directed to Zhaleh Alamouti on 8849 2331 or by email at development.sydney@rms.nsw.gov.au

Yours sincerely

A handwritten signature in black ink, consisting of a stylized 'A' followed by a series of loops and a long horizontal stroke.

Aleks Tancevski
A/Senior Land Use Coordinator
Network Sydney West Precinct



Mr Chris Ritchie
Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

Attention: Ms Bianca Thornton

Notice Number 1548511
Date 20-Jan-2017

Dear Mr Ritchie

**PROPOSED EXPANSION - FAIRFIELD SUSTAINABLE RESOURCE CENTRE, WETHERILL
PARK - EPA SEARS**

I refer to your request for the Environment Protection Authority's ("EPA") requirements for the environmental assessment ("EA") in regard to the above proposal received by EPA on 10 January 2017

The EPA has considered the details of the proposal as provided by DPE and DFP Planning Pty Ltd on behalf of Fairfield City Council and has identified the information it requires to issue its general terms of approval in Attachment A. In summary, the EPA's key information requirements for the proposal include an adequate assessment of:

1. Waste Management
2. Air - including potential sources, impacts and mitigation measures
3. Noise - including potential sources, impacts and mitigation measures

In carrying out the assessment, the proponent should refer to the relevant guidelines as listed in Attachment B and any relevant industry codes of practice and best practice management guidelines.

Please note that this response does not cover biodiversity or Aboriginal cultural heritage issues, which are the responsibility of the Office of Environment and Heritage.

The Proponent should be made aware that any commitments made in the EA may be formalised as approval conditions and may also be placed as formal licence conditions.

The Proponent should be made aware that, consistent with provisions under Part 9.4 of the *Protection of the Environment Operations Act 1997* ("the Act") the EPA may require the provision of a financial assurance and/or assurances. The amount and form of the assurance(s) would be determined by the EPA and required as a condition of an Environment Protection Licence ("EPL").



In addition, as a requirement of an EPL, the EPA will require the Proponent to prepare, test and implement a Pollution Incident Response Management Plan and/or Plans in accordance with Section 153A of the Act.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Ruth Owler'.

Ruth Owler

Unit Head

Waste & Resource Recovery

(by Delegation)



SEARS - PROJECT SPECIFIC

PROPOSED EXPANSION - FAIRFIELD SUSTAINABLE RESOURCE CENTRE, WETHERILL PARK - EPA SEARS

The EIS must provide details of the following:

Waste

- The types of waste, classified in accordance with the EPA's Waste Classification guidelines 2014, the likely composition of the waste and the proposed source of the waste;
- The quantities of waste to be stored at the premises; and
- The maximum amount of each type of waste and total amount of waste to be stored at the premises at any one time and per annum and the time proposed for the waste to be processed and removed from the premises.

Air

- Existing air quality in the area;
- A description of all potential sources of air emissions and odour;
- A quantitative assessment of potential air quality impacts arising from the project, particularly dust and odour impacts on surrounding landowners and sensitive receptors;
- The measures that will be utilised to mitigate dust emissions from any activities at the premises, including any material stored outside and the from vehicle traffic generated by the development; and
- The measures that will be utilised to mitigate odour from any activities at the premises, including during the transfer of material for transportation from the facility.

Noise

- All noise sources from the construction and operation of the facility;
- The facilities operating hours and specifications of machinery used during morning, day and night periods;
- The predicted number of traffic movements created by the construction and operation of the facility as well as the likely routes to be taken to and from the site to main thoroughfares; and
- Any sensitive receivers likely to be affected by activities at the site.

Soil and Water

- Details of how any runoff (leachate and stormwater) will be collected and stored and how odours from that runoff will be mitigated;
- Details of the leachate and waste water treatment systems for the proposed recycling facility giving consideration to the management, storage and re-use of leachate and the sediment removal process;
- Details of any potential sediment and erosion issues and measures to mitigate these from polluting nearby water bodies, water courses and the stormwater system; and
- Details of any proposed discharge points and proposed quality of discharge.

In addition to the above requirements the Environmental Assessment must include:

- Details of ownership of the land and if not owned by Fairfield City Council, then copies of any lease agreement demonstrating permitted occupation of the site.



- A site diagram that includes: site boundaries, the location of weigh bridge; areas for haulage, waste receipt, processing and storage, quarantine area for non-compliant material, the location of infrastructure for dust, noise and stormwater environmental controls.
- A detailed plan to address the filling of the 'Canal Road' gully that includes volumes and details of the materials proposed for use in the filling works and the processes adopted to ensure quality control for all incoming material. In addition, the plan will need to address any waste levy implications that may arise as a result of land applying waste material within the boundaries of the EPL footprint.
- A detailed description of how the proponent will deal with the receipt of non-conforming waste including asbestos.



ATTACHMENT A: EIS REQUIREMENTS FOR

PROPOSED EXPANSION - FAIRFIELD SUSTAINABLE RESOURCE CENTRE, WETHERILL PARK

How to use these requirements

The EPA requirements have been structured in accordance with the DIPNR EIS Guidelines, as follows. It is suggested that the EIS follow the same structure:

- A. Executive summary
- B. The proposal
- C. The location
- D. Identification and prioritisation of issues
- E. The environmental issues
- F. List of approvals and licences
- G. Compilation of mitigation measures
- H. Justification for the proposal

A Executive summary

The executive summary should include a brief discussion of the extent to which the proposal achieves identified environmental outcomes.

B The proposal

1. Objectives of the proposal

- The objectives of the proposal should be clearly stated and refer to:
 - a) the size and type of the operation, the nature of the processes and the products, by-products and wastes produced
 - b) a life cycle approach to the production, use or disposal of products
 - c) the anticipated level of performance in meeting required environmental standards and cleaner production principles
 - d) the staging and timing of the proposal and any plans for future expansion
 - e) the proposal's relationship to any other industry or facility.

2. Description of the proposal

General

- Outline the production process including:
 - a) the environmental “mass balance” for the process – quantify in-flow and out-flow of materials, any points of discharge to the environment and their respective destinations (sewer, stormwater, atmosphere, recycling, landfill etc)
 - b) any life-cycle strategies for the products.
- Outline cleaner production actions, including:
 - a) measures to minimise waste (typically through addressing source reduction)
 - b) proposals for use or recycling of by-products
 - c) proposed disposal methods for solid and liquid waste
 - d) air management systems including all potential sources of air emissions, proposals to re-use or treat emissions, emission levels relative to relevant standards in regulations, discharge points
 - e) water management system including all potential sources of water pollution, proposals for re-use, treatment etc, emission levels of any wastewater discharged, discharge points, summary of options explored to avoid a discharge, reduce its frequency or reduce its impacts, and rationale for selection of option to discharge.
 - f) soil contamination treatment and prevention systems.
- Outline construction works including:
 - a) actions to address any existing soil contamination
 - b) any earthworks or site clearing; re-use and disposal of cleared material (including use of spoil on-site)
 - c) construction timetable and staging; hours of construction; proposed construction methods

- d) environment protection measures, including noise mitigation measures, dust control measures and erosion and sediment control measures.

Air

- Identify all sources of air emissions from the development.
Note: emissions can be classed as either:
 - *point (eg emissions from stack or vent) or*
 - *fugitive (from wind erosion, leakages or spillages, associated with loading or unloading, conveyors, storage facilities, plant and yard operation, vehicle movements (dust from road, exhausts, loss from load), land clearing and construction works).*
- Provide details of the project that are essential for predicting and assessing air impacts including:
 - a) the quantities and physio-chemical parameters (eg concentration, moisture content, bulk density, particle sizes etc) of materials to be used, transported, produced or stored
 - b) an outline of procedures for handling, transport, production and storage
 - c) the management of solid, liquid and gaseous waste streams with potential for significant air impacts.

Noise and vibration

- Identify all noise sources from the development (including both construction and operation phases). Detail all potentially noisy activities including ancillary activities such as transport of goods and raw materials.
- Specify the times of operation for all phases of the development and for all noise producing activities.
- For projects with a significant potential traffic noise impact provide details of road alignment (include gradients, road surface, topography, bridges, culverts etc), and land use along the proposed road and measurement locations – diagrams should be to a scale sufficient to delineate individual residential blocks.

Water

- Provide details of the project that are essential for predicting and assessing impacts to waters:
 - a) including the quantity and physio-chemical properties of all potential water pollutants and the risks they pose to the environment and human health, including the risks they pose to Water Quality Objectives in the ambient waters (as defined on <http://www.environment.nsw.gov.au/ieo/index.htm>, using technical criteria derived from the Australian and New Zealand Guidelines for Fresh and Marine Water Quality, ANZECC 2000)
 - b) the management of discharges with potential for water impacts
 - c) drainage works and associated infrastructure; land-forming and excavations; working capacity of structures; and water resource requirements of the proposal.
- Outline site layout, demonstrating efforts to avoid proximity to water resources (especially for activities with significant potential impacts eg effluent ponds) and showing potential areas of modification of contours, drainage etc.

- Outline how total water cycle considerations are to be addressed showing total water balances for the development (with the objective of minimising demands and impacts on water resources). Include water requirements (quantity, quality and source(s)) and proposed storm and wastewater disposal, including type, volumes, proposed treatment and management methods and re-use options.

Waste and chemicals

- Provide details of the quantity and type of both liquid waste and non-liquid waste generated, handled, processed or disposed of at the premises. Waste must be classified according to the *Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-liquid Wastes* (NSW EPA, 1999).
- Provide details of liquid waste and non-liquid waste management at the facility, including:
 - a) the transportation, assessment and handling of waste arriving at or generated at the site
 - b) any stockpiling of wastes or recovered materials at the site
 - c) any waste processing related to the facility, including reuse, recycling, reprocessing (including composting) or treatment both on- and off-site
 - d) the method for disposing of all wastes or recovered materials at the facility
 - e) the emissions arising from the handling, storage, processing and reprocessing of waste at the facility
 - f) the proposed controls for managing the environmental impacts of these activities.
- Provide details of spoil disposal with particular attention to:
 - a) the quantity of spoil material likely to be generated
 - b) proposed strategies for the handling, stockpiling, reuse/recycling and disposal of spoil
 - c) the need to maximise reuse of spoil material in the construction industry
 - d) identification of the history of spoil material and whether there is any likelihood of contaminated material, and if so, measures for the management of any contaminated material
 - e) designation of transportation routes for transport of spoil.
- Provide details of procedures for the assessment, handling, storage, transport and disposal of all hazardous and dangerous materials used, stored, processed or disposed of at the site, in addition to the requirements for liquid and non-liquid wastes.
- Provide details of the type and quantity of any chemical substances to be used or stored and describe arrangements for their safe use and storage.
- Reference should be made to the guidelines: *Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes* (NSW EPA, 1999).

ESD

- Demonstrate that the planning process and any subsequent development incorporates objectives and mechanisms for achieving ESD, including:

an assessment of a range of options available for use of the resource, including the benefits of each option to future generations

- f) proper valuation and pricing of environmental resources
- g) identification of who will bear the environmental costs of the proposal.

3. Rehabilitation

- Outline considerations of site maintenance, and proposed plans for the final condition of the site (ensuring its suitability for future uses).

4. Consideration of alternatives and justification for the proposal

- Consider the environmental consequences of adopting alternatives, including alternative:
 - a) sites and site layouts
 - b) access modes and routes
 - c) materials handling and production processes
 - d) waste and water management
 - e) impact mitigation measures
 - f) energy sources
- Selection of the preferred option should be justified in terms of:
 - a) ability to satisfy the objectives of the proposal
 - b) relative environmental and other costs of each alternative
 - c) acceptability of environmental impacts and contribution to identified environmental objectives
 - d) acceptability of any environmental risks or uncertainties
 - e) reliability of proposed environmental impact mitigation measures
 - f) efficient use (including maximising re-use) of land, raw materials, energy and other resources.

C The location

1. General

- Provide an overview of the affected environment to place the proposal in its local and regional environmental context including:
 - a) meteorological data (eg rainfall, temperature and evaporation, wind speed and direction)
 - b) topography (landform element, slope type, gradient and length)
 - c) surrounding land uses (potential synergies and conflicts)
 - d) geomorphology (rates of landform change and current erosion and deposition processes)
 - e) soil types and properties (including erodibility; engineering and structural properties; dispersibility; permeability; presence of acid sulfate soils and potential acid sulfate soils)
 - f) ecological information (water system habitat, vegetation, fauna)
 - g) availability of services and the accessibility of the site for passenger and freight transport.

2. Air

- Describe the topography and surrounding land uses. Provide details of the exact locations of dwellings, schools and hospitals. Where appropriate provide a perspective view of the study area such as the terrain file used in dispersion models.
- Describe surrounding buildings that may effect plume dispersion.
- Provide and analyse site representative data on following meteorological parameters:
 - a) temperature and humidity
 - b) rainfall, evaporation and cloud cover
 - c) wind speed and direction
 - d) atmospheric stability class
 - e) mixing height (the height that emissions will be ultimately mixed in the atmosphere)
 - f) katabatic air drainage
 - g) air re-circulation.

3. Noise and vibration

- Identify any noise sensitive locations likely to be affected by activities at the site, such as residential properties, schools, churches, and hospitals. Typically the location of any noise sensitive locations in relation to the site should be included on a map of the locality.
- Identify the land use zoning of the site and the immediate vicinity and the potentially affected areas.

4. Water

- Describe the catchment including proximity of the development to any waterways and provide an assessment of their sensitivity/significance from a public health, ecological and/or economic perspective. The Water Quality and River Flow Objectives on the website: <http://www.environment.nsw.gov.au/ieo/index.htm> should be used to identify the agreed environmental values and human uses for any affected waterways. This will help with the description of the local and regional area.

5. Soil Contamination Issues

- Provide details of site history – if earthworks are proposed, this needs to be considered with regard to possible soil contamination, for example if the site was previously a landfill site or if irrigation of effluent has occurred.

D Identification and prioritisation of issues / scoping of impact assessment

- Provide an overview of the methodology used to identify and prioritise issues. The methodology should take into account:
 - a) relevant NSW government guidelines
 - b) industry guidelines
 - c) EISs for similar projects
 - d) relevant research and reference material
 - e) relevant preliminary studies or reports for the proposal
 - f) consultation with stakeholders.
- Provide a summary of the outcomes of the process including:
 - a) all issues identified including local, regional and global impacts (eg increased/ decreased greenhouse emissions)
 - b) key issues which will require a full analysis (including comprehensive baseline assessment)
 - c) issues not needing full analysis though they may be addressed in the mitigation strategy
 - d) justification for the level of analysis proposed (the capacity of the proposal to give rise to high concentrations of pollution compared with the ambient environment or environmental outcomes is an important factor in setting the level of assessment).

E The environmental issues

1. General

- The potential impacts identified in the scoping study need to be assessed to determine their significance, particularly in terms of achieving environmental outcomes, and minimising environmental pollution.
- Identify gaps in information and data relevant to significant impacts of the proposal and any actions proposed to fill those information gaps so as to enable development of appropriate management and mitigation measures. This is in accordance with ESD requirements.

Note: The level of detail should match the level of importance of the issue in decision making which is dependent on the environmental risk.

Describe baseline conditions

- Provide a description of existing environmental conditions for any potential impacts.

Assess impacts

- For any potential impacts relevant for the assessment of the proposal provide a detailed analysis of the impacts of the proposal on the environment including the cumulative impact of the proposal on the receiving environment especially where there are sensitive receivers.
- Describe the methodology used and assumptions made in undertaking this analysis (including any modelling or monitoring undertaken) and indicate the level of confidence in the predicted outcomes and the resilience of the environment to cope with the predicted impacts.
- The analysis should also make linkages between different areas of assessment where necessary to enable a full assessment of environmental impacts eg assessment of impacts on air quality will often need to draw on the analysis of traffic, health, social, soil and/or ecological systems impacts; etc.
- The assessment needs to consider impacts at all phases of the project cycle including: exploration (if relevant or significant), construction, routine operation, start-up operations, upset operations and decommissioning if relevant.
- The level of assessment should be commensurate with the risk to the environment.

Describe management and mitigation measures

- Describe any mitigation measures and management options proposed to prevent, control, abate or mitigate identified environmental impacts associated with the proposal and to reduce risks to human health and prevent the degradation of the environment. This should include an assessment of the effectiveness and reliability of the measures and any residual impacts after these measures are implemented.
- Proponents are expected to implement a 'reasonable level of performance' to minimise environmental impacts. The proponent must indicate how the proposal meets reasonable levels of performance. For example, reference technology based criteria if available, or identify good practice for this type of activity or development. A 'reasonable level of performance' involves adopting and implementing technology and management practices to achieve certain pollutant emissions levels in economically

viable operations. Technology-based criteria evolve gradually over time as technologies and practices change.

- Use environmental impacts as key criteria in selecting between alternative sites, designs and technologies, and to avoid options having the highest environmental impacts.
- Outline any proposed approach (such as an Environmental Management Plan) that will demonstrate how commitments made in the EIS will be implemented. Areas that should be described include:
 - a) operational procedures to manage environmental impacts
 - b) monitoring procedures
 - c) training programs
 - d) community consultation
 - e) complaint mechanisms including site contacts
 - f) strategies to use monitoring information to improve performance
 - g) strategies to achieve acceptable environmental impacts and to respond in event of exceedences.

4. Air

Describe baseline conditions

- Provide a description of existing air quality and meteorology, using existing information and site representative ambient monitoring data.

Assess impacts

- Identify all pollutants of concern and estimate emissions by quantity (and size for particles), source and discharge point.
- Estimate the resulting ground level concentrations of all pollutants. Where necessary (eg potentially significant impacts and complex terrain effects), use an appropriate dispersion model to estimate ambient pollutant concentrations. Discuss choice of model and parameters with the DECCW.
- Describe the effects and significance of pollutant concentration on the environment, human health, amenity and regional ambient air quality standards or goals.
- Describe the contribution that the development will make to regional and global pollution, particularly in sensitive locations.
- For potentially odorous emissions provide the emission rates in terms of odour units (determined by techniques compatible with EPA / DECCW procedures). Use sampling and analysis techniques for individual or complex odours and for point or diffuse sources, as appropriate.

Note: With dust and odour, it may be possible to use data from existing similar activities to generate emission rates.

- Reference should be made to relevant guidelines e.g. *Approved Methods for the Modelling and Assessment of Air Pollutants in NSW* (DEC, 2001); *Approved Methods for the Sampling and Analysis of Air Pollutants in NSW* (DEC, 2007); *Assessment and Management of Odour from Stationary Sources in*



NSW (DEC, 2006); *Technical Notes: Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006)*.

Describe management and mitigation measures

- Outline specifications of pollution control equipment (including manufacturer's performance guarantees where available) and management protocols for both point and fugitive emissions. Where possible, this should include cleaner production processes.

5. Noise and vibration

Describe baseline conditions

- Determine the existing background (LA90) and ambient (LAeq) noise levels in accordance with the *NSW Industrial Noise Policy*.
- Determine the existing road traffic noise levels in accordance with the *NSW Environmental Criteria for Road Traffic Noise*, where road traffic noise impacts may occur.
- The noise impact assessment report should provide details of all monitoring of existing ambient noise levels including:
 - a) details of equipment used for the measurements
 - b) a brief description of where the equipment was positioned
 - c) a statement justifying the choice of monitoring site, including the procedure used to choose the site, having regards to the definition of 'noise sensitive locations(s)' and 'most affected locations(s)' described in Section 3.1.2 of the *NSW Industrial Noise Policy*
 - d) details of the exact location of the monitoring site and a description of land uses in surrounding areas
 - e) a description of the dominant and background noise sources at the site
 - f) day, evening and night assessment background levels for each day of the monitoring period
 - g) the final Rating Background Level (RBL) value
 - h) graphs of the measured noise levels for each day should be provided
 - i) a record of periods of affected data (due to adverse weather and extraneous noise), methods used to exclude invalid data and a statement indicating the need for any re-monitoring under Step 1 in Section B1.3 of the *NSW Industrial Noise Policy*
 - j) determination of LAeq noise levels from existing industry.

Assess impacts

- Determine the project specific noise levels for the site. For each identified potentially affected receiver, this should include:
 - a) determination of the intrusive criterion for each identified potentially affected receiver

- b) selection and justification of the appropriate amenity category for each identified potentially affected receiver
- c) determination of the amenity criterion for each receiver
- d) determination of the appropriate sleep disturbance limit.
- Maximum noise levels during night-time period (10pm-7am) should be assessed to analyse possible affects on sleep. Where LA1(1min) noise levels from the site are less than 15 dB above the background LA90 noise level, sleep disturbance impacts are unlikely. Where this is not the case, further analysis is required. Additional guidance is provided in Appendix B of the *NSW Environmental Criteria for Road Traffic Noise*.
- Determine expected noise level and noise character (eg tonality, impulsiveness, vibration, etc) likely to be generated from noise sources during:
 - a) site establishment
 - b) construction
 - c) operational phases
 - d) transport including traffic noise generated by the proposal
 - e) other services.

Note: The noise impact assessment report should include noise source data for each source in 1/1 or 1/3 octave band frequencies including methods for references used to determine noise source levels. Noise source levels and characteristics can be sourced from direct measurement of similar activities or from literature (if full references are provided).

- Determine the noise levels likely to be received at the most sensitive locations (these may vary for different activities at each phase of the development). Potential impacts should be determined for any identified significant adverse meteorological conditions. Predicted noise levels under calm conditions may also aid in quantifying the extent of impact where this is not the most adverse condition.
- The noise impact assessment report should include:
 - a) a plan showing the assumed location of each noise source for each prediction scenario
 - b) a list of the number and type of noise sources used in each prediction scenario to simulate all potential significant operating conditions on the site
 - c) any assumptions made in the predictions in terms of source heights, directivity effects, shielding from topography, buildings or barriers, etc
 - d) methods used to predict noise impacts including identification of any noise models used. Where modelling approaches other than the use of the ENM or SoundPlan computer models are adopted, the approach should be appropriately justified and validated
 - e) an assessment of appropriate weather conditions for the noise predictions including reference to any weather data used to justify the assumed conditions
 - f) the predicted noise impacts from each noise source as well as the combined noise level for each prediction scenario under any identified significant adverse weather conditions as well as calm conditions where appropriate
 - g) for developments where a significant level of noise impact is likely to occur, noise contours for the key prediction scenarios should be derived
 - h) an assessment of the need to include modification factors as detailed in Section 4 of the *NSW Industrial Noise Policy*.

- Discuss the findings from the predictive modelling and, where relevant noise criteria have not been met, recommend additional mitigation measures.
- The noise impact assessment report should include details of any mitigation proposed including the attenuation that will be achieved and the revised noise impact predictions following mitigation.
- Where relevant noise/vibration criteria cannot be met after application of all feasible and cost effective mitigation measures the residual level of noise impact needs to be quantified by identifying:
 - a) locations where the noise level exceeds the criteria and extent of exceedence
 - b) numbers of people (or areas) affected
 - c) times when criteria will be exceeded
 - d) likely impact on activities (speech, sleep, relaxation, listening, etc)
 - e) change on ambient conditions
 - f) the result of any community consultation or negotiated agreement.
- For the assessment of existing and future traffic noise, details of data for the road should be included such as assumed traffic volume; percentage heavy vehicles by time of day; and details of the calculation process. These details should be consistent with any traffic study carried out in the EIS.
- Where blasting is intended an assessment in accordance with the *Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration* (ANZECC, 1990) should be undertaken. The following details of the blast design should be included in the noise assessment:
 - a) bench height, burden spacing, spacing burden ratio
 - b) blast hole diameter, inclination and spacing
 - c) type of explosive, maximum instantaneous charge, initiation, blast block size, blast frequency.

Describe management and mitigation measures

- Determine the most appropriate noise mitigation measures and expected noise reduction including both noise controls and management of impacts for both construction and operational noise. This will include selecting quiet equipment and construction methods, noise barriers or acoustic screens, location of stockpiles, temporary offices, compounds and vehicle routes, scheduling of activities, etc.
- For traffic noise impacts, provide a description of the ameliorative measures considered (if required), reasons for inclusion or exclusion, and procedures for calculation of noise levels including ameliorative measures. Also include, where necessary, a discussion of any potential problems associated with the proposed ameliorative measures, such as overshadowing effects from barriers. Appropriate ameliorative measures may include:
 - a) use of alternative transportation modes, alternative routes, or other methods of avoiding the new road usage
 - b) control of traffic (eg: limiting times of access or speed limitations)
 - c) resurfacing of the road using a quiet surface
 - d) use of (additional) noise barriers or bunds
 - e) treatment of the façade to reduce internal noise levels buildings where the night-time criteria is a major concern

- f) more stringent limits for noise emission from vehicles (i.e. using specially designed 'quite' trucks and/or trucks to use air bag suspension)
- g) driver education
- h) appropriate truck routes
- i) limit usage of exhaust breaks
- j) use of premium muffles on trucks
- k) reducing speed limits for trucks
- l) ongoing community liaison and monitoring of complaints
- m) phasing in the increased road use.

4. Water

Describe baseline conditions

- Describe existing surface and groundwater quality – an assessment needs to be undertaken for any water resource likely to be affected by the proposal and for all conditions (e.g. a wet weather sampling program is needed if runoff events may cause impacts).
Note: Methods of sampling and analysis need to conform with an accepted standard (e.g. Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (DEC 2004) or be approved and analyses undertaken by accredited laboratories).
- Provide site drainage details and surface runoff yield.
- State the ambient Water Quality and River Flow Objectives for the receiving waters. These refer to the community's agreed environmental values and human uses endorsed by the Government as goals for the ambient waters. These environmental values are published on the website: <http://www.environment.nsw.gov.au/ieo/index.htm>. The EIS should state the environmental values listed for the catchment and waterway type relevant to your proposal. NB: A consolidated and approved list of environmental values are not available for groundwater resources. Where groundwater may be affected the EIS should identify appropriate groundwater environmental values and justify the choice.
- State the indicators and associated trigger values or criteria for the identified environmental values. This information should be sourced from the ANZECC 2000 *Guidelines for Fresh and Marine Water Quality* (<http://www.environment.gov.au/water/publications/quality/nwqms-guidelines-4-vol1.html>) (Note that, as at 2004, the NSW Water Quality Objectives booklets and website contain technical criteria derived from the 1992 version of the ANZECC Guidelines. The Water Quality Objectives remain as Government Policy, reflecting the community's environmental values and long-term goals, but the technical criteria are replaced by the more recent ANZECC 2000 Guidelines). NB: While specific guidelines for groundwater are not available, the ANZECC 2000 Guidelines endorse the application of the trigger values and decision trees as a tool to assess risk to environmental values in groundwater.
- State any locally specific objectives, criteria or targets, which have been endorsed by the government e.g. the Healthy Rivers Commission Inquiries or the NSW Salinity Strategy (DLWC, 2000) (<http://www.environment.nsw.gov.au/salinity/government/nswstrategy.htm>).
- Where site specific studies are proposed to revise the trigger values supporting the ambient Water Quality and River Flow Objectives, and the results are to be used for regulatory purposes (e.g. to



assess whether a licensed discharge impacts on water quality objectives), then prior agreement from the EPA on the approach and study design must be obtained.

- Describe the state of the receiving waters and relate this to the relevant Water Quality and River Flow Objectives (i.e. are Water Quality and River Flow Objectives being achieved?). Proponents are generally only expected to source available data and information. However, proponents of large or high risk developments may be required to collect some ambient water quality / river flow / groundwater data to enable a suitable level of impact assessment. Issues to include in the description of the receiving waters could include:
 - a) lake or estuary flushing characteristics
 - b) specific human uses (e.g. exact location of drinking water offtake)
 - c) sensitive ecosystems or species conservation values
 - d) a description of the condition of the local catchment e.g. erosion levels, soils, vegetation cover, etc
 - e) an outline of baseline groundwater information, including, but not restricted to, depth to watertable, flow direction and gradient, groundwater quality, reliance on groundwater by surrounding users and by the environment
 - f) historic river flow data where available for the catchment.

Assess impacts

- No proposal should breach clause 120 of the *Protection of the Environment Operations Act 1997* (i.e. pollution of waters is prohibited unless undertaken in accordance with relevant regulations).
- Identify and estimate the quantity of all pollutants that may be introduced into the water cycle by source and discharge point including residual discharges after mitigation measures are implemented.
- Include a rationale, along with relevant calculations, supporting the prediction of the discharges.
- Describe the effects and significance of any pollutant loads on the receiving environment. This should include impacts of residual discharges through modelling, monitoring or both, depending on the scale of the proposal. Determine changes to hydrology (including drainage patterns, surface runoff yield, flow regimes, wetland hydrologic regimes and groundwater).
- Describe water quality impacts resulting from changes to hydrologic flow regimes (such as nutrient enrichment or turbidity resulting from changes in frequency and magnitude of stream flow).
- Identify any potential impacts on quality or quantity of groundwater describing their source.
- Identify potential impacts associated with geomorphological activities with potential to increase surface water and sediment runoff or to reduce surface runoff and sediment transport. Also consider possible impacts such as bed lowering, bank lowering, instream siltation, floodplain erosion and floodplain siltation.
- Identify impacts associated with the disturbance of acid sulfate soils and potential acid sulfate soils.
- Containment of spills and leaks shall be in accordance with the technical guidelines section 'Bunding and Spill Management' of the *Authorised Officers Manual* (EPA, 1995) (<http://www.epa.nsw.gov.au/mao/bundingspill.htm>) and the most recent versions of the Australian Standards referred to in the Guidelines. Containment should be designed for no-discharge.
- The significance of the impacts listed above should be predicted. When doing this it is important to predict the ambient water quality and river flow outcomes associated with the proposal and to demonstrate whether these are acceptable in terms of achieving protection of the Water Quality and River Flow Objectives. In particular the following questions should be answered:



- a) will the proposal protect Water Quality and River Flow Objectives where they are currently achieved in the ambient waters; and
- b) will the proposal contribute towards the achievement of Water Quality and River Flow Objectives over time, where they are not currently achieved in the ambient waters.
- Consult with the EPA as soon as possible if a mixing zone is proposed (a mixing zone could exist where effluent is discharged into a receiving water body, where the quality of the water being discharged does not immediately meet water quality objectives. The mixing zone could result in dilution, assimilation and decay of the effluent to allow water quality objectives to be met further downstream, at the edge of the mixing zone). The EPA will advise the proponent under what conditions a mixing zone will and will not be acceptable, as well as the information and modelling requirements for assessment.

Note: The assessment of water quality impacts needs to be undertaken in a total catchment management context to provide a wide perspective on development impacts, in particular cumulative impacts.
- Where a licensed discharge is proposed, provide the rationale as to why it cannot be avoided through application of a reasonable level of performance, using available technology, management practice and industry guidelines.
- Where a licensed discharge is proposed, provide the rationale as to why it represents the best environmental outcome and what measures can be taken to reduce its environmental impact.
- Reference should be made to list relevant guidelines e.g. *Managing Urban Stormwater: Soils and Construction* (DECC, 2008), *Guidelines for Fresh and Marine Water Quality* (ANZECC 2000).

Describe management and mitigation measures

- Outline stormwater management to control pollutants at the source and contain them within the site. Also describe measures for maintaining and monitoring any stormwater controls.
- Outline erosion and sediment control measures directed at minimising disturbance of land, minimising water flow through the site and filtering, trapping or detaining sediment. Also include measures to maintain and monitor controls as well as rehabilitation strategies.
- Describe waste water treatment measures that are appropriate to the type and volume of waste water and are based on a hierarchy of avoiding generation of waste water; capturing all contaminated water (including stormwater) on the site; reusing/recycling waste water; and treating any unavoidable discharge from the site to meet specified water quality requirements.
- Outline pollution control measures relating to storage of materials, possibility of accidental spills (eg preparation of contingency plans), appropriate disposal methods, and generation of leachate.
- Describe hydrological impact mitigation measures including:
 - a) site selection (avoiding sites prone to flooding and waterlogging, actively eroding or affected by deposition)
 - b) minimising runoff
 - c) minimising reductions or modifications to flow regimes
 - d) avoiding modifications to groundwater.
- Describe groundwater impact mitigation measures including:
 - a) site selection

- b) retention of native vegetation and revegetation
- c) artificial recharge
- d) providing surface storages with impervious linings
- e) monitoring program.
- Describe geomorphological impact mitigation measures including:
 - a) site selection
 - b) erosion and sediment controls
 - c) minimising instream works
 - d) treating existing accelerated erosion and deposition
 - e) monitoring program.
- Any proposed monitoring should be undertaken in accordance with the *Approved Methods for the Sampling and Analysis of Water Pollutants in NSW* (DEC 2004).

5. Soils and contamination

Describe baseline conditions

- Provide any details (in addition to those provided in the location description - Section C) that are needed to describe the existing situation in terms of soil types and properties and soil contamination.

Assess impacts

- Identify any likely impacts resulting from the construction or operation of the proposal, including the likelihood of:
 - a) disturbing any existing contaminated soil
 - b) contamination of soil by operation of the activity
 - c) subsidence or instability
 - d) soil erosion
 - e) disturbing acid sulfate or potential acid sulfate soils.
- Reference should be made to list relevant guidelines e.g. *Contaminated Sites – Guidelines for Consultants Reporting on Contaminated Sites* (OEH, 2011); *Contaminated Sites – Guidelines on Significant Risk of Harm from Contaminated Land and the Duty to Report* (EPA, 2003).

Describe management and mitigation measures

- Describe and assess the effectiveness or adequacy of any soil management and mitigation measures during construction and operation of the proposal including:
 - a) erosion and sediment control measures



- b) proposals for site remediation – see *Managing Land Contamination, Planning Guidelines SEPP 55 – Remediation of Land* (Department of Urban Affairs and Planning and Environment Protection Authority, 1998)
- c) proposals for the management of these soils – see *Assessing and Managing Acid Sulfate Soils*, Environment Protection Authority, 1995 (note that this is the only methodology accepted by the EPA).

6. Waste and chemicals

Describe baseline conditions

- Describe any existing waste or chemicals operations related to the proposal.

Assess impacts

- Assess the adequacy of proposed measures to minimise natural resource consumption and minimise impacts from the handling, transporting, storage, processing and reprocessing of waste and/or chemicals.
- Reference should be made to *Waste Classification Guidelines* (NSW EPA, 2014).

Describe management and mitigation measures

- Outline measures to minimise the consumption of natural resources.
- Outline measures to avoid the generation of waste and promote the re-use and recycling and reprocessing of any waste.
- Outline measures to support any approved regional or industry waste plans.

7. Cumulative impacts

- Identify the extent that the receiving environment is already stressed by existing development and background levels of emissions to which this proposal will contribute.
- Assess the impact of the proposal against the long term air, noise and water quality objectives for the area or region.
- Identify infrastructure requirements flowing from the proposal (eg water and sewerage services, transport infrastructure upgrades).
- Assess likely impacts from such additional infrastructure and measures reasonably available to the proponent to contain such requirements or mitigate their impacts (eg travel demand management strategies).

F. List of approvals and licences

- Identify all approvals and licences required under environment protection legislation including details of all scheduled activities, types of ancillary activities and types of discharges (to air, land, water).

G. Compilation of mitigation measures

- Outline how the proposal and its environmental protection measures would be implemented and managed in an integrated manner so as to demonstrate that the proposal is capable of complying with statutory obligations under EPA licences or approvals (eg outline of an environmental management plan).
- The mitigation strategy should include the environmental management and cleaner production principles which would be followed when planning, designing, establishing and operating the proposal. It should include two sections, one setting out the program for managing the proposal and the other outlining the monitoring program with a feedback loop to the management program.

H. Justification for the Proposal

- Reasons should be included which justify undertaking the proposal in the manner proposed, having regard to the potential environmental impacts.

ATTACHMENT B: GUIDANCE MATERIAL

| Title | Web address |
|--|---|
| Relevant Legislation | |
| <i>Contaminated Land Management Act 1997</i> | http://www.legislation.nsw.gov.au/maintop/view/inforce/act+140+1997+cd+0+N |
| <i>Environmentally Hazardous Chemicals Act 1985</i> | http://www.legislation.nsw.gov.au/maintop/view/inforce/act+14+1985+cd+0+N |
| <i>Environmental Planning and Assessment Act 1979</i> | http://www.legislation.nsw.gov.au/maintop/view/inforce/act+203+1979+cd+0+N |
| <i>Protection of the Environment Operations Act 1997</i> | http://www.legislation.nsw.gov.au/maintop/view/inforce/act+156+1997+cd+0+N |
| | |
| <i>Water Management Act 2000</i> | http://www.legislation.nsw.gov.au/maintop/view/inforce/act+92+2000+cd+0+N |
| Licensing | |
| Guide to Licensing | www.epa.nsw.gov.au/licensing/licenceguide.htm |
| Air Issues | |
| Air Quality | |
| Approved methods for modelling and assessment of air pollutants in NSW (2005) | http://www.epa.nsw.gov.au/resources/air/ammodelling05361.pdf |
| POEO (Clean Air) Regulation 2010 | http://www.legislation.nsw.gov.au/maintop/view/inforce/subordleg+428+2010+cd+0+N |
| Noise and Vibration | |
| Interim Construction Noise Guideline (DECC, 2009) | http://www.epa.nsw.gov.au/noise/constructnoise.htm |
| Assessing Vibration: a technical guideline (DEC, 2006) | http://www.epa.nsw.gov.au/noise/vibrationguide.htm |
| Industrial Noise Policy Application Notes | http://www.epa.nsw.gov.au/noise/applicnotesindustnoise.htm |
| Environmental Criteria for Road Traffic Noise (EPA, 1999) | http://www.epa.nsw.gov.au/resources/noise/roadnoise.pdf |
| Interim Guideline for the Assessment of Noise from Rail Infrastructure Projects (DECC, 2007) | http://www.epa.nsw.gov.au/noise/railinfranoise.htm |
| Environmental assessment requirements for rail traffic-generating developments | http://www.epa.nsw.gov.au/noise/railnoise.htm |

| Waste, Chemicals and Hazardous Materials and Radiation | |
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| Waste | |
| Environmental Guidelines: Solid Waste Landfills (EPA, 1996) | http://www.epa.nsw.gov.au/resources/waste/envguidlns/solidlandfill.pdf |
| Draft Environmental Guidelines - Industrial Waste Landfilling (April 1998) | http://www.epa.nsw.gov.au/resources/waste/envguidlns/industrialfill.pdf |
| Waste Classification Guidelines (2014) | http://www.epa.nsw.gov.au/waste/envguidlns/index.htm |
| Resource recovery exemption | http://www.epa.nsw.gov.au/waste/RRecoveryExemptions.htm |
| Chemicals subject to Chemical Control Orders | |
| Chemical Control Orders (regulated through the EHC Act) | http://www.epa.nsw.gov.au/pesticides/CCOs.htm |
| National Protocol - Approval/Licensing of Trials of Technologies for the Treatment/Disposal of Schedule X Wastes - July 1994 | Available in libraries |
| National Protocol for Approval/Licensing of Commercial Scale Facilities for the Treatment/Disposal of Schedule X Wastes - July 1994 | Available in libraries |
| Water and Soils | |
| Acid sulphate soils | |
| Coastal acid sulfate soils guidance material | http://www.environment.nsw.gov.au/acidsulfatesoil/ |
| Acid Sulfate Soils Planning Maps | http://www.environment.nsw.gov.au/acidsulfatesoil/riskmaps.htm |
| Contaminated Sites Assessment and Remediation | |
| Managing land contamination: Planning Guidelines – SEPP 55 Remediation of Land | http://www.planning.nsw.gov.au/assessingdev/pdf/qu_contam.pdf |
| Guidelines for Consultants Reporting on Contaminated Sites (EPA, 2000) | http://www.epa.nsw.gov.au/resources/clm/20110650consultantsguidelines.pdf |
| Guidelines for the NSW Site Auditor Scheme - 2nd edition (DEC, 2006) | http://www.epa.nsw.gov.au/resources/clm/auditorguidelines06121.pdf |
| Sampling Design Guidelines (EPA, 1995) | Available by request from EPA's Environment Line |

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| National Environment Protection (Assessment of Site Contamination) Measure 1999 (or update) | http://www.scew.gov.au/nepms/assessment-site-contamination |
| Soils – general | |
| Managing land and soil | http://www.environment.nsw.gov.au/soils/landandsoil.htm |
| Managing urban stormwater for the protection of soils | http://www.environment.nsw.gov.au/stormwater/publications.htm |
| Landslide risk management guidelines | http://www.australiangeomechanics.org/resources/downloads/ |
| Site Investigations for Urban Salinity (DLWC, 2002) | http://www.environment.nsw.gov.au/resources/salinity/booklet3siteinvestigationsforurbansalinity.pdf |
| Local Government Salinity Initiative Booklets | http://www.environment.nsw.gov.au/salinity/solutions/urban.htm |
| Water | |
| Water Quality Objectives | http://www.environment.nsw.gov.au/ieo/index.htm |
| ANZECC (2000) Guidelines for Fresh and Marine Water Quality | http://www.environment.gov.au/water/publications/quality/nwqms-guidelines-4-vol1.html |
| Applying Goals for Ambient Water Quality Guidance for Operations Officers – Mixing Zones | Contact the EPA on 131555 |
| Approved Methods for the Sampling and Analysis of Water Pollutant in NSW (2004) | http://www.environment.nsw.gov.au/resources/legislation/approved-methods-water.pdf |



Office of
Environment
& Heritage

DOC17/12937

Ms Kelly McNicol
Team Leader, Industry Assessments
NSW Department of Planning and Environment
bianca.thornton@planning.nsw.gov.au

Attention: Bianca Thornton

Dear Ms McNicol

Fairfield Sustainable Resource Centre Expansion SSD 8184

I refer to your letter received by the Office of Environment and Heritage (OEH) on 10 January 2017 requesting input into the Secretary's Environmental Assessment Requirement's (SEARs) for the construction of a proposed expansion of the Fairfield Sustainable Resource Centre (SSD 8184).

OEH's standard requirements for the SEARs and additional specific requirements are provided in Attachment 1. The additional requirements relate to the flood assessment and for consideration of impacts on nearby OEH land as the site is within 500 metres of the Western Sydney Parklands.

The proposal is seeking to expand the facility by filling a gully running north-south through the centre of the site which is known locally as 'Canal Road'. The gully area is mapped as containing vegetation mapped as 'Urban Exotic/Native' in the Sydney Metropolitan Catchment Management Authority vegetation mapping dated 2013. The site was not field assessed.

The information provided by DFP planning consultants states that the flora and fauna report will include a 7-part test if necessary. As the proposal is a State significant development, biodiversity impacts related to the proposed development must be assessed and documented in accordance with the *Framework for Biodiversity Assessment* (FBA) (OEH 2014). If as a result of the assessment, the ecological consultant determines there is no native vegetation or habitat for threatened species on site, the Proponent can seek agreement from OEH that the FBA does not need to be implemented. Any such request should be made via the relevant Department of Planning and Environment planning officer.

The information provided by DFP planning consultants states that part of the site is potentially affected by flooding from Prospect Creek. The area subject to flooding includes a small area of the Canal Road gully and a flood assessment will be undertaken to assess the potential impacts and ensure that there is no loss in flood storage volume as a result of the proposed works. OEH recommends that the flood assessment utilise the latest/refined hydraulic model from Fairfield City Council's *Prospect Creek Floodplain Management Plan Review* (Bewsher, March 2010) to determine base case scenario and the potential impacts post development for the full range of flooding up to the probable maximum flood.

If you have any further questions about this issue please contact Rachel Lonie, Senior Operations Officer on 9995 6837 or by email at rachel.lonie@environment.nsw.gov.au.

Yours sincerely

Handwritten signature of S. Harrison and the date 16/04/17.

SUSAN HARRISON
Senior Team Leader Planning
Regional Operations

Attachment A – Standard Environmental Assessment Requirements

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| <p>Biodiversity</p> <p>1. Biodiversity impacts related to the proposed development are to be assessed and documented in accordance with the Framework for Biodiversity Assessment, unless otherwise agreed by OEH, by a person accredited in accordance with s142B(1)(c) of the <i>Threatened Species Conservation Act 1995</i>.</p> |
| <p>Aboriginal cultural heritage</p> <p>2. The EIS must identify and describe the Aboriginal cultural heritage values that exist across the whole area that will be affected by the development and document these in the EIS. This may include the need for surface survey and test excavation. The identification of cultural heritage values should be guided by the <u><i>Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW</i></u> (DECCW, 2011) and consultation with OEH regional officers.</p> <p>3. Where Aboriginal cultural heritage values are identified, consultation with Aboriginal people must be undertaken and documented in accordance with the <i>Aboriginal cultural heritage consultation requirements for proponents 2010</i> (DECCW). The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS.</p> <p>4. Impacts on Aboriginal cultural heritage values are to be assessed and documented in the EIS. The EIS must demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to OEH.</p> |
| <p>Historic heritage</p> <p>5. The EIS must provide a heritage assessment including but not limited to an assessment of impacts to <i>State and local heritage</i> including conservation areas, natural heritage areas, places of Aboriginal heritage value, buildings, works, relics, gardens, landscapes, views, trees should be assessed. Where impacts to State or locally significant heritage items are identified, the assessment shall:</p> <ul style="list-style-type: none"> a. outline the proposed mitigation and management measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the NSW Heritage Manual (1996), b. be undertaken by a suitably qualified heritage consultant(s) (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), c. include a statement of heritage impact for all heritage items (including significance assessment), d. consider impacts including, but not limited to, vibration, demolition, archaeological disturbance, altered historical arrangements and access, landscape and vistas, and architectural noise treatment (as relevant), and e. where potential archaeological impacts have been identified develop an appropriate archaeological assessment methodology, including research design, to guide physical archaeological test excavations (terrestrial and maritime as relevant) and include the results of these test excavations. |

| Water and soils |
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| <p>6. The EIS must map the following features relevant to water and soils including:</p> <ul style="list-style-type: none"> a. Acid sulfate soils (Class 1, 2, 3 or 4 on the Acid Sulfate Soil Planning Map). b. Rivers, streams, wetlands, estuaries (as described in Appendix 2 of the Framework for Biodiversity Assessment). c. Groundwater. d. Groundwater dependent ecosystems. e. Proposed intake and discharge locations. |
| <p>7. The EIS must describe background conditions for any water resource likely to be affected by the development, including:</p> <ul style="list-style-type: none"> a. Existing surface and groundwater. b. Hydrology, including volume, frequency and quality of discharges at proposed intake and discharge locations. c. Water Quality Objectives (as endorsed by the NSW Government http://www.environment.nsw.gov.au/ieo/index.htm) including groundwater as appropriate that represent the community's uses and values for the receiving waters. d. Indicators and trigger values/criteria for the environmental values identified at (c) in accordance with the ANZECC (2000) Guidelines for Fresh and Marine Water Quality and/or local objectives, criteria or targets endorsed by the NSW Government. |
| <p>8. The EIS must assess the impacts of the development on water quality, including:</p> <ul style="list-style-type: none"> a. The nature and degree of impact on receiving waters for both surface and groundwater, demonstrating how the development protects the Water Quality Objectives where they are currently being achieved, and contributes towards achievement of the Water Quality Objectives over time where they are currently not being achieved. This should include an assessment of the mitigating effects of proposed stormwater and wastewater management during and after construction. b. Identification of proposed monitoring of water quality. |
| <p>9. The EIS must assess the impact of the development on hydrology, including:</p> <ul style="list-style-type: none"> a. Water balance including quantity, quality and source. b. Effects to downstream rivers, wetlands, estuaries, marine waters and floodplain areas. c. Effects to downstream water-dependent fauna and flora including groundwater dependent ecosystems. d. Impacts to natural processes and functions within rivers, wetlands, estuaries and floodplains that affect river system and landscape health such as nutrient flow, aquatic connectivity and access to habitat for spawning and refuge (eg river benches). e. Changes to environmental water availability, both regulated/licensed and unregulated/rules-based sources of such water. f. Mitigating effects of proposed stormwater and wastewater management during and after construction on hydrological attributes such as volumes, flow rates, management methods and re-use options. g. Identification of proposed monitoring of hydrological attributes. |

Flooding and coastal erosion

10. The EIS must map the following features relevant to flooding as described in the Floodplain Development Manual 2005 (NSW Government 2005) including:
 - a. Flood prone land
 - b. Flood planning area, the area below the flood planning level.
 - c. Hydraulic categorisation (floodways and flood storage areas).
11. The EIS must describe flood assessment and modelling undertaken in determining the design flood levels for events, including a minimum of the 1 in 10 year, 1 in 100 year flood levels and the probable maximum flood, or an equivalent extreme event.
12. The EIS must model the effect of the proposed development (including fill) on the flood behaviour under the following scenarios:
 - a. Current flood behaviour for a range of design events as identified in 11 above. This includes the 1 in 200 and 1 in 500 year flood events as proxies for assessing sensitivity to an increase in rainfall intensity of flood producing rainfall events due to climate change.
13. Modelling in the EIS must consider and document:
 - a. The impact on existing flood behaviour for a full range of flood events including up to the probable maximum flood.
 - b. Impacts of the development on flood behaviour resulting in detrimental changes in potential flood affection of other developments or land. This may include redirection of flow, flow velocities, flood levels, hazards and hydraulic categories.
 - c. Relevant provisions of the NSW Floodplain Development Manual 2005.
14. The EIS must assess the impacts on the proposed development on flood behaviour, including:
 - a. Whether there will be detrimental increases in the potential flood affection of other properties, assets and infrastructure.
 - b. Consistency with Council floodplain risk management plans.
 - c. Compatibility with the flood hazard of the land.
 - d. Compatibility with the hydraulic functions of flow conveyance in floodways and storage in flood storage areas of the land.
 - e. Whether there will be adverse effect to beneficial inundation of the floodplain environment, on, adjacent to or downstream of the site.
 - f. Whether there will be direct or indirect increase in erosion, siltation, destruction of riparian vegetation or a reduction in the stability of river banks or watercourses.
 - g. Any impacts the development may have upon existing community emergency management arrangements for flooding. These matters are to be discussed with the SES and Council.
 - h. Whether the proposal incorporates specific measures to manage risk to life from flood. These matters are to be discussed with the SES and Council.
 - i. Emergency management, evacuation and access, and contingency measures for the development considering the full range of flood risk (based upon the probable maximum flood or an equivalent extreme flood event). These matters are to be discussed with and have the support of Council and the SES.
 - j. Any impacts the development may have on the social and economic costs to the community as consequence of flooding.

Attachment B – Project Specific Environmental Assessment Requirements

Biodiversity

As the site is within 500 metres of the Western Sydney Parklands, the assessment of impacts must address the matters to be considered outlined in the *Guidelines for developments adjoining land and water managed by DECCW* (DECCW 2010) and include:

- i. The nature of the impacts, including direct and indirect impacts.
- ii. The extent of the direct and indirect impacts.
- iii. The duration of the direct and indirect impacts.
- iv. The objectives of the reservation of the land.
- e. Measures proposed to prevent, control, abate, minimise and manage the direct and indirect impacts including an evaluation of the effectiveness and reliability of the proposed measures.
- f. Residual impacts.

Flooding

The flood assessment is to utilise the latest/refined hydraulic model from Fairfield City Council's *Prospect Creek Floodplain Management Plan Review* (Bewsher, March 2010) to determine base case scenario and the potential impacts post development for the full range of flooding up to the probable maximum flood.



Department of Primary Industries

OUT17/3153

Ms Bianca Thornton
Industry Assessments
NSW Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

Bianca.thornton@planning.nsw.gov.au

Dear Ms Thornton

Fairfield Sustainable Resource Centre Expansion (SSD 8184) Request for Secretary's Environmental Assessment Requirements

I refer to your email of 10 January 2017 to the Department of Primary Industries (DPI) in respect to the above matter. Comment has been sought from relevant divisions of DPI. Views were also sought from NSW Department of Industry - Lands that are now a division of the broader Department and no longer within NSW DPI. Any further referrals to DPI can be sent by email to landuse.enquiries@dpi.nsw.gov.au.

DPI has reviewed the request and advises that the Environmental Impact Statement should be required to consider the following:

- Annual volumes of surface water and groundwater proposed to be taken by the activity (including through inflow and seepage) from each surface and groundwater source as defined by the relevant water sharing plan.
- Assessment of any volumetric water licensing requirements (including those for ongoing water take following completion of the project).
- The identification of an adequate and secure water supply for the life of the project. Confirmation that water can be sourced from an appropriately authorised and reliable supply. This is to include an assessment of the current market depth where water entitlement is required to be purchased.
- A detailed and consolidated site water balance.
- Assessment of impacts on surface and ground water sources (both quality and quantity), related infrastructure, adjacent licensed water users, basic landholder rights, watercourses, riparian land, and groundwater dependent ecosystems, and measures proposed to reduce and mitigate these impacts.
- Full technical details and data of all surface and groundwater modelling.
- Proposed surface and groundwater monitoring activities and methodologies.
- Assessment of any potential cumulative impacts on water resources, and any proposed options to manage the cumulative impacts.
- Consideration of relevant policies and guidelines.

- A statement of where each element of the SEARs is addressed in the EIS (i.e. in the form of a table).

Yours sincerely



Mitchell Isaacs

Director, Planning Policy & Assessment Advice

24 January 2017

DPI appreciates your help to improve our advice to you. Please complete this three minute survey about the advice we have provided to you, here:

<https://goo.gl/o8TXWz>

Bianca Thornton

From: Shayne Kneen <shayne.kneen@industry.nsw.gov.au>
Sent: Tuesday, 17 January 2017 11:35 AM
To: Bianca Thornton
Subject: Re: Request for SEARs - Fairfield Sustainable Resource Centre Expansion SSD 8184 (GSNSW Response)

Bianca,

Thank you for the opportunity to provide advice on the: **Request for SEARs - Fairfield Sustainable Resource Centre Expansion SSD 8184.**

The Geological Survey of New South Wales (GSNSW) has reviewed the subject area and has determined that there are no resource issues to raise in regard to the proposal and has no SEAR's to issue on this occasion.

Queries regarding the above information, and future requests for advise in relation to this matter, should be directed to the GSNSW Land Use team at landuse.minerals@industry.nsw.gov.au.

Regards

Shayne Kneen | Geoscientist | Minerals and Land Use Assessment | Geological Survey of NSW

NSW Department of Industry | Division of Resources & Energy

516 High St | Maitland | NSW 2320 | PO Box 344 | Hunter Region Mail Centre | NSW 2310

T: 02 4931 6731 | F: 02 4931 6726 | E: shayne.kneen@industry.nsw.gov.au

W: www.industry.nsw.gov.au | www.resources.nsw.gov.au

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