

# Planning Secretary's Environmental Assessment Requirements

Lucas Heights Resource Recovery Park – Western Extension Project



<b>Application Number</b>	SSD-78269209
<b>Project Name</b>	Lucas Heights Resource Recovery Park (LHRRP) Western Extension Project
<b>Development</b>	<p>Extension of the LHRRP to the west ('Western Area') of the existing landfill footprint (SSD-6835) to enable landfilling at the input rate of up to 970,000 tonnes per year (tpa), including:</p> <ul style="list-style-type: none"> <li>• construction of the Western Area landfill to provide up to 9 million cubic metres (m<sup>3</sup>) of additional landfill capacity</li> <li>• construction of a 500,000-tonne capacity restricted waste landfill cell</li> <li>• relocation of existing leachate dams, stormwater dams and associated treatment infrastructures to the Western Area</li> <li>• re-alignment of Mill Creek</li> <li>• rehabilitation of the LHRRP following closure (proposed end 2039/2040), and transferral of land ownership to Sutherland Shire Council (Council) for use as public parkland</li> <li>• revision of the final landscape and final landform plan (approved under SSD-6835) to incorporate the Western Area.</li> </ul>
<b>Location</b>	<p>Lot 3 DP 1032102, Lot 2 DP 605077 and Lot 101 DP 1009354            Intersection of New Illawarra Road and Heathcote Road, Lucas Heights in the Sutherland Shire local government area (LGA)</p>
<b>Applicant</b>	Cleanaway Pty Ltd
<b>Date of Issue</b>	20 December 2024
<b>General Requirements</b>	<p>The Environmental Impact Statement (EIS) for the development must:</p> <ul style="list-style-type: none"> <li>• comply with these assessment requirements</li> <li>• meet the form and content requirements in sections 190 and 192 of the Environmental Planning and Assessment Regulation 2021 (the Regulation)</li> <li>• have regard to the Department's <i>State Significant Development Guidelines (2021)</i>.</li> </ul> <p>In addition, the EIS must include:</p> <ul style="list-style-type: none"> <li>• a clear, comprehensive description of the proposal for the site. This should include details of all activities and processes proposed to be carried out as part of the development, including proposed blasting hours, frequency and methods</li> <li>• details of likely staging of the development and its progress over time, including details of future closure plans and post-closure management</li> <li>• a clear description of how the proposal would interact with the existing operations, closure timeline, rehabilitation and final land-use (recreational parklands) of the LHRRP and the existing Voluntary Planning Agreement (VPA)</li> <li>• a site-specific risk assessment of the potential environmental impacts of the development both during operation and following closure, identifying the key issues for further assessment</li> <li>• consideration of issues discussed in the public authority responses to request for key issues (see <b>Attachment 2</b>)</li> <li>• a detailed assessment of the key issues specified below, including:               <ul style="list-style-type: none"> <li>– a description of the existing environment, using sufficient baseline data</li> <li>– an assessment of the potential impacts of all stages and activities that form part of the development, including blasting and any cumulative impacts, taking into consideration relevant guidelines, policies, plans and statutes</li> <li>– an assessment of worst-case scenarios / risks where the development may potentially be impacted or disrupted, particularly regarding delays in the rehabilitation and final delivery of parklands. This should include all contingencies and strategies that would be implemented under these circumstances</li> <li>– a description of the measures that would be implemented to avoid, minimise, mitigate and if necessary, offset the potential impacts of the development, including proposals for adaptive management and/or contingency plans to manage significant risks to the environment.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• a list of other approvals that must be obtained before the development may commence</li> <li>• a consolidated summary of all the proposed environmental management and monitoring measures, highlighting commitments included in the EIS.</li> </ul> <p>The EIS must also be accompanied by:</p> <ul style="list-style-type: none"> <li>– an Estimated Development Cost (EDC) Report prepared in accordance with the relevant planning circular using the Standard Form of EDC Report</li> <li>– an estimate of the retained and new jobs that would be created during the construction and operational phases of the development, including details of the methodology to determine the figures provided</li> <li>– high quality files of maps and figures of the subject site and proposal</li> <li>– certification that the information provided is accurate at the date of preparation</li> <li>– a declaration from a Registered Environmental Assessment Practitioner that your EIS includes the information specified in the Department’s <i>Registered Environmental Assessment Practitioner Guidelines</i>.</li> </ul>
<p><b>Key issues</b></p>	<p>The EIS must address the following specific matters:</p> <ul style="list-style-type: none"> <li>• <b>Statutory and Strategic Context</b> – including: <ul style="list-style-type: none"> <li>– details of any proposed consolidation or subdivision of land if required</li> <li>– demonstration and justification of how the proposed development is permissible with consent, noting that a portion of the subject site is partially prohibited for the land-use of ‘waste or resource management facilities,’ in accordance with the Sutherland Shire LEP 2015</li> <li>– a detailed description of the history of the site, including the relationship between the proposed development, development consents and approved operations and/or infrastructure (including the landfill gas (LFG) energy generation facility) previously and/or currently applicable to the site</li> <li>– demonstration that the proposal is consistent with all relevant planning strategies, environmental planning instruments (EPI), adopted precinct plans, draft district plan(s) and adopted management plans and justification for any inconsistencies. This includes, but is not limited to: <ul style="list-style-type: none"> <li>○ State Environmental Planning Policy (Biodiversity and Conservation) 2021</li> <li>○ State Environmental Planning Policy (Industry and Employment) 2021</li> <li>○ State Environmental Planning Policy (Planning Systems) 2021</li> <li>○ State Environmental Planning Policy (Resilience and Hazards) 2021</li> <li>○ State Environmental Planning Policy (Transport and Infrastructure) 2021</li> <li>○ Sutherland Shire Local Environmental Plan (LEP) 2015</li> <li>○ National Waste Policy</li> <li>○ NSW Waste and Sustainable Materials Strategy 2041.</li> </ul> </li> </ul> </li> <li>• <b>Suitability of the Site</b> – including: <ul style="list-style-type: none"> <li>– a detailed justification that the site can accommodate the proposed development having regard to the scope of the operations of the existing waste facility (SSD-6835) and its environmental impacts, relevant mitigation measures, strategic context and existing site constraints</li> </ul> </li> <li>• <b>Planning Agreement/Development Contributions</b> – consideration of existing and any new State and local development contributions and planning agreements including: <ul style="list-style-type: none"> <li>– detailing the requirements, obligations and how any inconsistencies would be addressed of any existing and new relevant contribution plan(s), planning agreements (and noting Council’s existing <i>Deed of Agreement 2000</i>) or EPI requiring a monetary contribution, dedication of land and/or works-in-kind and include details of any proposal for further material public benefit</li> </ul> </li> <li>• <b>Community and Stakeholder Engagement</b> – a community and stakeholder engagement strategy consistent with the Department’s <i>Undertaking Engagement Guidelines for State Significant Projects</i> for all stages of the development (including delivery of the recreational parklands), including (but not limited to): <ul style="list-style-type: none"> <li>– details of how issues raised, and feedback provided during engagement activities have been considered for the development, and whether they have resulted in changes to the proposal</li> <li>– details of the proposed approach to future community and stakeholder engagement based on the results of consultation.</li> </ul> </li> <li>• <b>Landfill Design</b> – including details of the design, construction and operation of the proposal in accordance with the Environmental Guidelines: Solid Waste Landfills,</li> </ul>

Second edition (EPA, 2016) and having regard to the Environment Protection Authority's (EPA) key issues (see **Attachment 2**). Information provided should include the following:

- details of any proposed leachate and LFG management and monitoring systems, including connection to the existing LFG energy generation facility, and integration into the existing LHRRP operations
- details and justification of the proposed final capping, closure measures, landform and rehabilitation of the landfill, including its final land use, and any maintenance requirements and responsibilities to ensure its ongoing integrity.
- **Waste Management** – including:
  - a description of each waste stream (including restricted waste) that would be disposed at the site, including maximum daily, weekly and annual receipt rates, and details of the source of the waste streams to justify the need for the proposed landfill capacity
  - details of how waste would be handled at the LHRRP, and transported to and from the Western Area, including details of how the receipt of non-conforming waste would be dealt with
  - detail of the development's waste tracking system, including the chain of responsibility for incoming waste materials during transit from source to arrival at the LHRRP
  - details of the waste management strategy for the landfill construction waste generated
  - details of the measures that would be implemented to ensure the development is consistent with the aims, objectives and guidance in the NSW *Waste and Sustainable Materials Strategy 2041*.
- **Site Closure, Rehabilitation, Long-term Management and Ownership** – including:
  - details of post-closure environmental monitoring and long-term site ownership and ongoing management responsibilities
  - justification for the proposed final landform and land-uses in relation to strategic land use objectives
  - a detailed description of the proposed measures to ensure sufficient financial resources are available to implement the proposed rehabilitation measures, and the ongoing management of the site following cessation of landfilling activities
- **Water Management** – a detailed assessment of surface water and groundwater impacts in accordance with EPA's guidelines, and the key requirements raised by EPA, DECCW BCS and DECCW Water (see **Attachment 2**), including:
  - an assessment of potential impacts on watercourses (noting the proposed realignment of Mill Creek), riparian areas, water-related infrastructure and other water users and consideration of any potential impacts on sensitive downstream receiving environments
  - a surface water discharge assessment including characterisation of water quality at any point of discharge against the relevant water quality criteria using a MUSIC water quality model
  - details of any water supply infrastructure(s) and the proposed stormwater/wastewater drainage design(s) including the capacity of onsite detention system(s) and measures to treat, reuse or dispose of water
  - an assessment of the likely impacts on the quality and quantity of existing groundwater resources of all works/activities that may intercept, extract, use, divert or receive groundwater (both temporary and permanent)
  - a detailed site water balance including a description of the water demands (during landfill construction and operations), water disposal methods (inclusive of volume and frequency of any water discharges), measures to minimise water use and any water licensing requirements including for groundwater dewatering if required under the *Water Act 1912* and/or *Water Management Act 2000*
  - details of any surface and groundwater mitigation, management and monitoring activities and methodologies
  - consideration of flooding impacts and mitigation measures.
- **Biodiversity** – an assessment of the proposal's biodiversity impacts with consideration of key requirements provided by DECCW BCS (see **Attachment 2**) and in accordance with the *Biodiversity Conservation Act 2016*, including:
  - accurate predictions of any vegetation clearing on site
  - a detailed assessment of the likely biodiversity impacts of the development, particularly paying attention to threatened species, populations and ecological

- communities and groundwater dependant ecosystems, undertaken in accordance with the Biodiversity Assessment Method and documented in a Biodiversity Development Assessment Report (BDAR)
- a detailed consideration of the potential for off-site and in-direct impacts on local biodiversity and surrounding ecological corridors or habitat
  - a strategy to offset any residual impacts of the development in accordance with the Biodiversity Offsets Scheme
  - a detailed description of the proposed measures to maintain or improve the biodiversity of the local area in the medium to long-term.
- **Contamination** – in accordance with Chapter 4 of *SEPP (Resilience and Hazards) 2021* and consideration of the Consultants reporting on contaminated land – contaminated land guidelines (EPA, 2020), assess and quantify potential contamination from various environmental media (including soil/sediment, groundwater, surface water, soil vapour and ground gases) and demonstrate that the site is suitable for the development and future recreational parklands, including:
    - Preliminary Site Investigation(s) (PSI) to identify all past and present potentially contaminating activities, details of the site condition and need for further investigations
    - Detailed Site Investigation(s) (DSI) involving the characterisation of the nature and extent of any contamination on the site and surrounding area
    - Site Remedial Action Plan(s) (RAP) if contamination is present and remediation is required to make the site suitable for either the landfill and future recreational parklands.
  - **Soils** – an assessment of potential impacts on soil resources and riparian land on and near the site, including:
    - potential impacts on soils and land capability (including potential erosion, salinity, acid sulfate soils and land contamination) and the proposed mitigation, management and remedial measures (as appropriate)
    - details of earthworks, including cut (i.e. landfill construction) and fill volumes and levels (with consideration of the final landform design for the parklands)
    - description of the proposed erosion and sediment controls during construction
  - **Air Quality and Odour** – a quantitative assessment of the potential air quality, dust and odour impacts of the development (construction and operation) on surrounding sensitive receptors, with consideration of EPA's key issues (see **Attachment 2**) and relevant EPA guidelines, including:
    - details of how the emplacement of materials within the landfill would be managed to minimise dust generation and air quality impacts
    - evidence of appropriate meteorological data for use in dispersion modelling, using real and local meteorological data where possible
    - an investigation and assessment of odour impacts likely to be associated with 'cold air drainage' effects on all identified and potential receivers
    - inclusion of 'worst case' emission scenarios and sensitivity analyses
    - a contingency plan to address unpredicted operational odour impacts
    - a description and appraisal of air quality and odour impact monitoring, emission control techniques and mitigation measures for fugitive and point source emissions.
  - **Traffic and Transport** – a quantitative transport impact assessment (including consideration of the existing onsite operational traffic that is not part of the proposal) prepared in accordance with the Transport for NSW Guide to Transport Impact Assessment (GTIA) and Austroads guidelines, that includes:
    - details of all daily and peak traffic volumes likely to be generated during construction, operation and rehabilitation, and estimates of trip generation and trip distribution using data from the existing operations
    - an assessment of cumulative traffic impact on road capacity, performance and safety implications at key intersections (particularly New Illawarra Road/Little Forest Road and New Illawarra Road/Heathcote Road) using an appropriate modelling framework (including the consideration of existing base case, future base case and project case scenarios)
    - details of travel and haulage routes along the road network for vehicles to and from the development site, including appropriate swept paths for large heavy vehicles
    - details of any road upgrades, internal road network, traffic control measures, new roads or access points required for the development, if necessary (including approval-in-principle from the relevant road authority, where relevant)

- an outline of a Construction Traffic Management Plan detailing the likely trip generation, construction vehicle routes, access and parking arrangements and measures to mitigate any construction traffic impacts.
- **Noise and Vibration** – a quantitative noise and vibration impact assessment undertaken by a suitably qualified acoustic consultant in accordance with the relevant EPA guidelines and Australian Standards which includes:
  - the identification of impacts associated with construction (including blasting), operation and traffic generation at noise affected sensitive receivers, including the provision of operational noise contours, consideration of annoying characteristics of noise and prevailing meteorological conditions in the study area
  - a cumulative impact assessment inclusive of impacts from existing operations at the LHRRP and other developments
  - details of noise monitoring survey, background noise levels, noise source inventory and ‘worst case’ noise emission scenarios
  - details and analysis of the effectiveness of proposed management and mitigation measures to adequately manage identified impacts, including a clear identification of residual noise and vibration following application of these mitigation measures and details of any proposed compliance monitoring programs
- **Infrastructure Requirements** – an infrastructure delivery, management and staging plan that includes:
  - identification of all infrastructure upgrades or easements required to facilitate the development
  - identification and assessment of impacts of any existing infrastructure (including existing waste operational facilities, utilities, service provider assets) and easements on or surrounding the site which may be impacted by construction or operation of the development, and details of measures to be implemented to address any impacts
  - details of the existing capacity of the site to service the proposed development and any extension or augmentation, property tenure or staging requirements for the provision of utilities, including arrangements for electrical network requirements, LFG energy generation, and water
- **Fire and Other Incident Management** – including:
  - technical information on any environmental protection equipment to be installed on the premises such as for air, water and noise controls, spill clean-up equipment and fire management (including water supply capabilities for firefighting), prevention and containment measures
  - details of management measures to minimise fire spread and facilitate emergency vehicle access
- **Bush Fire** – a bush fire assessment report that addresses the aims and objectives of Planning for Bushfire Protection 2019, and includes:
  - details of proposed operational access for emergency services personnel
  - a Bush Fire Emergency Management and Evacuation Plan prepared in accordance with relevant RFS guidance.
- **Hazards and Risk** – including:
  - a preliminary risk screening completed in accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021* and Applying SEPP 33 (DoP, 2011), that includes:
    - a clear indication of class, storage and handling quantities and location of all dangerous goods and hazardous materials for both construction and operational phases of the development
    - a description of LFG management and assessment as to whether the LFG may accumulate, exceeding the threshold of Applying SEPP 33
  - a Preliminary Hazard Analysis (PHA) prepared in accordance with *Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis* (DoP, 2011) and *Multi-Level Risk Assessment* (DoP, 2011), should the preliminary risk screening indicate that the project is “potentially hazardous”.
- **Visual** – a visual impact assessment, including:
  - photomontages and perspectives of the final landform
  - an assessment of the potential visual impacts of the development (with consideration to all stages of delivery) on the amenity of the surrounding area, including:
    - nearby public and private receivers

	<ul style="list-style-type: none"> <li>○ significant vantage points in the broader public domain, including the future parklands</li> <li>● <b>Aboriginal Cultural Heritage</b> – an Aboriginal Cultural Heritage Assessment Report (ACHAR) prepared in consideration of the key requirements outlined by DECCW Heritage NSW (see <b>Attachment 2</b>) and in accordance with the key requirements Code of Practice for Archaeological Investigation in NSW (DECCW 2010), and guided by the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in New South Wales (OEH 2011).</li> <li>● <b>Non-Aboriginal Cultural Heritage</b> – a non-Aboriginal cultural heritage assessment (including both cultural and archaeological significance) which must detail potential impacts on heritage assets and any proposed management and mitigation measures.</li> <li>● <b>Ecologically Sustainable Development</b> – including:             <ul style="list-style-type: none"> <li>– identification of how ESD principles (as defined in section 193 of the EP&amp;A Regulation) are incorporated in the design and ongoing operation of the development</li> <li>– demonstration of how the development will meet or exceed the relevant industry recognised environmental performance standards</li> <li>– a Greenhouse Gas (GHG) Assessment in accordance with the draft Greenhouse Gas Assessment Guide for Large Emitters (EPA, 2024)</li> <li>– the preparation of a Climate Change Mitigation Plan and a Climate Adaptation Plan in accordance with relevant EPA requirements</li> </ul> </li> <li>● <b>Social</b> – including a social impact assessment (SIA) in accordance with the Department’s <i>Social Impact Assessment Guideline</i> for State significant projects.</li> <li>● <b>Economic</b> – including:             <ul style="list-style-type: none"> <li>– an analysis of any potential economic impacts of the development, including a discussion of any potential economic benefits to the local and broader community.</li> </ul> </li> </ul>
<p><b>Consultation</b></p>	<p>During the preparation of the EIS, you must consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups and affected landowners.</p> <p>In particular you must consult with:</p> <ul style="list-style-type: none"> <li>● Sutherland Shire Council</li> <li>● Department of Climate Change, Energy, the Environment and Water, specifically the:             <ul style="list-style-type: none"> <li>○ Biodiversity, Conservation and Science Group</li> <li>○ Water Group</li> <li>○ Environment Protection Authority</li> <li>○ Heritage NSW</li> </ul> </li> <li>● Transport for NSW</li> <li>● Fire &amp; Rescue NSW</li> <li>● NSW Rural Fire Service</li> <li>● Sydney Water</li> <li>● surrounding local landowners, businesses and stakeholders, including (but not limited to) the following:             <ul style="list-style-type: none"> <li>○ Sydney International Clay Target Association (SICTA),</li> <li>○ Australia’s Nuclear Science and Technology Organisation (ANSTO)</li> <li>○ Department of Defence – Holsworthy Barracks</li> </ul> </li> <li>● local and regional community and environmental groups (including the LHRRP Community Reference Group)</li> <li>● Gandangara Aboriginal Land Council</li> <li>● any other public transport, utilities or community service providers.</li> </ul>
<p><b>SEARs Expiry</b></p>	<p>SEARs will expire two years after the date of issue (or the date they were last modified).</p>
<p><b>References</b></p>	<p>The assessment of the key issues listed above must take into account relevant guidelines, policies, and plans as identified. While not exhaustive, <b>Attachment 1</b> contains a list of some of the guidelines, policies, and plans that may be relevant to the environmental assessment of this proposal.</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:

<https://www.planningportal.nsw.gov.au/major-projects/assessment/policies-and-guidelines>

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

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

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

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

<b>Policies, Guidelines &amp; Plans</b>	
<b>Aspect</b>	<b>Policy / Methodology</b>
<b>State Significant Development Guidelines</b>	
	State Significant Assessment Guidelines (DPIE, 2021)
	Undertaking Engagement Guide – Guidance for State Significant Projects (DPIE, 2021)
	Cumulative Impact Assessment Guidelines for State Significant Projects (DPIE, 2021)
	Planning Circular PS24-002: Changes to how development costs are calculated for planning purposes
	Standard Form of Estimated Development Cost (State significant projects) – March 2024
<b>Air Quality</b>	
	Protection of the Environment Operations (Clean Air) Regulation 2022
Air Quality	Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA, 2022)
	Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (EPA, 2022)
Odour	Assessment and Management of Odour from Stationary Sources in NSW (DEC 2006)
	AGO Factors and Methods Workbook (AGO, 2018)
	Guidelines for Energy Savings Action Plans (DEUS, 2005)
Greenhouse Gas	National Greenhouse and Energy Reporting Scheme Measurement, Technical Guidelines for the estimation of emissions by facilities in Australia (Department of the Environment and Energy (DoEE), 2017)
	National Greenhouse Accounts Factors (DoEE, 2019)
<b>Biodiversity</b>	
	<i>Biodiversity Conservation Act 2016</i>
	Biodiversity Assessment Method (EES, 2021)
	Guidelines for Controlled Activities on Waterfront Land (NRAR, 2018)
	Developments adjacent to National Parks and Wildlife Service lands (DPIE, 2020)
<b>Bush Fire</b>	
	Planning for Bush Fire Protection (RFS, 2019)
<b>Climate Change</b>	
	EPA Climate Change Policy (EPA, 2023)
	Net Zero Plan Stage 1: 2020-2030 (DPIE, 2020)
	NSW EPA Guide for Large Emitters – Draft for Consultation (EPA, 2024)

<b>Policies, Guidelines &amp; Plans</b>	
<b>Aspect</b>	<b>Policy / Methodology</b>
<b>Fire Safety</b>	<p>Fire Safety Guidelines – Fire Safety in Waste Facilities (FRNSW, 2020)</p> <p>Fire Safety Guidelines – Access for fire brigade vehicles and firefighters</p> <p>Fire Safety Guidelines – Emergency services information package and tactical fire plans</p>
<b>Flooding</b>	<p>Flood Impact and Risk Assessment Flood Risk Management Guide (LU01) (DPE, 2022)</p> <p>Department of Planning and Environment Flood Risk Management Toolkit – <a href="https://www.environment.nsw.gov.au/topics/water/floodplains/floodplain-guidelines">https://www.environment.nsw.gov.au/topics/water/floodplains/floodplain-guidelines</a></p>
<b>Hazards and Risk</b>	<p>State Environmental Planning Policy (Resilience and Hazards) 2021</p> <p>Applying SEPP 33 – Hazardous and Offensive Development Application Guidelines (DoP, 2011)</p> <p>Assessment Guideline: Multi-level Risk Assessment (Planning and Infrastructure, 2011)</p>
<b>Heritage</b>	<p><i>Heritage Act 1977</i></p>
Non-Aboriginal Heritage	<p>NSW Heritage Manual (HO and DUAP, 1996)</p> <p>The Burra Charter (ICOMOS Australia, 2013)</p> <p>Statements of Heritage Impact (HO and DUAP, 2002)</p>
Aboriginal Heritage	<p>Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010)</p> <p>Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011)</p> <p>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (DECCW, 2010)</p>
<b>Human Health Risk</b>	<p>Environmental Health Risk Assessment: Guidelines for assessing human health risks from environmental hazards (enHealth, 2012)</p>
<b>Noise, Vibration and Blasting</b>	<p>Approved methods for measurement and analysis of environmental noise in NSW (EPA, 2022)</p> <p>Acoustics – Description and measurement of environmental noise (AS1055:2018)</p> <p>Noise Policy for Industry (EPA, 2017)</p> <p>NSW Road Noise Policy (DECCW, 2011)</p> <p>Noise Criteria Guideline (RMS, 2015)</p> <p>Noise Mitigation Guideline (RMS, 2015)</p> <p>Interim Construction Noise Guideline (DECC, 2009)</p> <p>Assessing Vibration: A Technical Guide (DEC, 2006)</p> <p>Noise Guide for Local Government (EPA, 2013)</p> <p>Technical basis for guidelines to minimise annoyance due to blasting overpressure and ground vibration (ANZEC, 1990)</p>
<b>Social</b>	<p>Social Impact Assessment Guideline for State Significant Projects (DPIE, 2021)</p>
<b>Soils and Water</b>	<p>Managing Urban Stormwater: Soils &amp; Construction (Landcom, 2004)</p>

<b>Policies, Guidelines &amp; Plans</b>	
<b>Aspect</b>	<b>Policy / Methodology</b>
Erosion and Sediment	Soil and Landscape Issues in Environmental Impact Assessment (DLWC, 2000)
	Wind Erosion – 2 <sup>nd</sup> Edition (DIPNR, 2003)
Groundwater	Groundwater assessment toolbox for major projects in NSW - Overview document Technical guideline (DPE, 2022)
	Guidelines for Groundwater Documentation for SSD/SSI Projects Technical guideline (DPE, 2022)
	Minimum Groundwater Modelling Requirements for SSD/SSI Projects, Technical guideline (DPE, 2022)
	Cumulative Groundwater Impact Assessment Approaches Information paper (DPE, 2022)
	National Water Quality Management Strategy Guidelines for Groundwater Protection in Australia (ARMCANZ/ANZECC, 2000)
	NSW State Groundwater Policy Framework Document (DLWC, 1997)
	NSW Aquifer Interference Policy (NOW, 2012)
	Water Sharing Plan for the Greater Metropolitan Region Groundwater Sources (NOW, 2011)
Stormwater	Storing and Handling Liquids: Environmental Protection (DECC, 2007)
	Managing Urban Stormwater: Strategic Framework. Draft (EPA, 1996)
	Managing Urban Stormwater: Council Handbook. Draft (EPA, 1997)
	Managing Urban Stormwater: Treatment Techniques (DEC, 2006)
	Managing Urban Stormwater: Source Control. Draft (EPA, 1998)
Wastewater	Managing Urban Stormwater: Harvesting and Reuse (DEC, 2006)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Effluent Management (ARMCANZ/ANZECC, 1997)
	National Water Quality Management Strategy: Guidelines for Sewerage Systems – Use of Reclaimed Water (ARMCANZ/ANZECC, 2000)
	National Water Quality Management Strategy – Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 1) (EPHC, NRMMC & AHMC, 2006)
Contamination	National Water Quality Management Strategy – Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 2) (EPHC, NRMMC & AHMC, 2009)
	State Environmental Planning Policy (Resilience and Hazards) 2021
	Managing Land Contamination Planning Guidelines, SEPP 55 – Remediation of Land (DUAP & EPA, 1998)
<b>Traffic, Transport and Access</b>	Consultants reporting on contaminated land: Contaminated Land Guidelines (EPA, 2020)
	<i>Roads Act 1993</i>
	State Environmental Planning Policy (Transport and Infrastructure) 2021
	Guide to Transport Impact Assessment (TfNSW, 2024)
	Road Design Guide (RMS, 2015-2017)
	Guide to Traffic Management – Pt 12: Traffic Impacts of Development (Austroads, 2016)
	Guidelines for Planning and Assessment of Road Freight Access in Industrial Areas (Austroads, 2014)
	Integrated Public Transport Service Planning Guidelines: Sydney Metropolitan Area (TfNSW, 2013)
	Greater Sydney Services and Infrastructure Plan (TfNSW, 2018)
	NSW Freight & Ports Plan 2018-2023 (TfNSW, 2018)

<b>Policies, Guidelines &amp; Plans</b>	
<b>Aspect</b>	<b>Policy / Methodology</b>
<b>Visual</b>	Control of Obtrusive Effects of Outdoor Lighting (AS 2482)
<b>Waste</b>	<p>NSW Waste and Sustainable Material Strategy 2041 (EPA, 2021)</p> <p>NSW Plastics Action Plan (EPA, 2021)</p> <p>NSW Energy from Waste Policy Statement (EPA, 2021)</p> <p>NSW Energy from Waste Infrastructure Plan (2021)</p> <p>The National Waste Policy: Less Waste More Resources 2018</p> <p>Waste Classification Guidelines (EPA, 2014)</p> <p>Environmental guidelines: Composting and Related Organics Processing Facilities (DEC, 2004)</p> <p>Environmental guidelines: Use and Disposal of Biosolid Products (EPA, 1997)</p> <p>Composts, soil conditioners and mulches (Standards Australia, AS 4454)</p> <p>Standards for Managing Construction Waste in NSW (EPA, 2018)</p>
<b>Waterways</b>	<p>Risk-based Framework for Considering Waterway Health Outcomes in Strategic Land-use Planning (OEH, 2017)</p> <p>Guidelines for controlled activity approvals - <a href="https://water.dpie.nsw.gov.au/our-work/licensing-and-trade/controlled-activity-approvals/guidelines">https://water.dpie.nsw.gov.au/our-work/licensing-and-trade/controlled-activity-approvals/guidelines</a></p>

**ATTACHMENT 2**

**Government Authority Advice**

<https://www.planningportal.nsw.gov.au/major-projects/projects/lucas-heights-rrp-western-expansion>