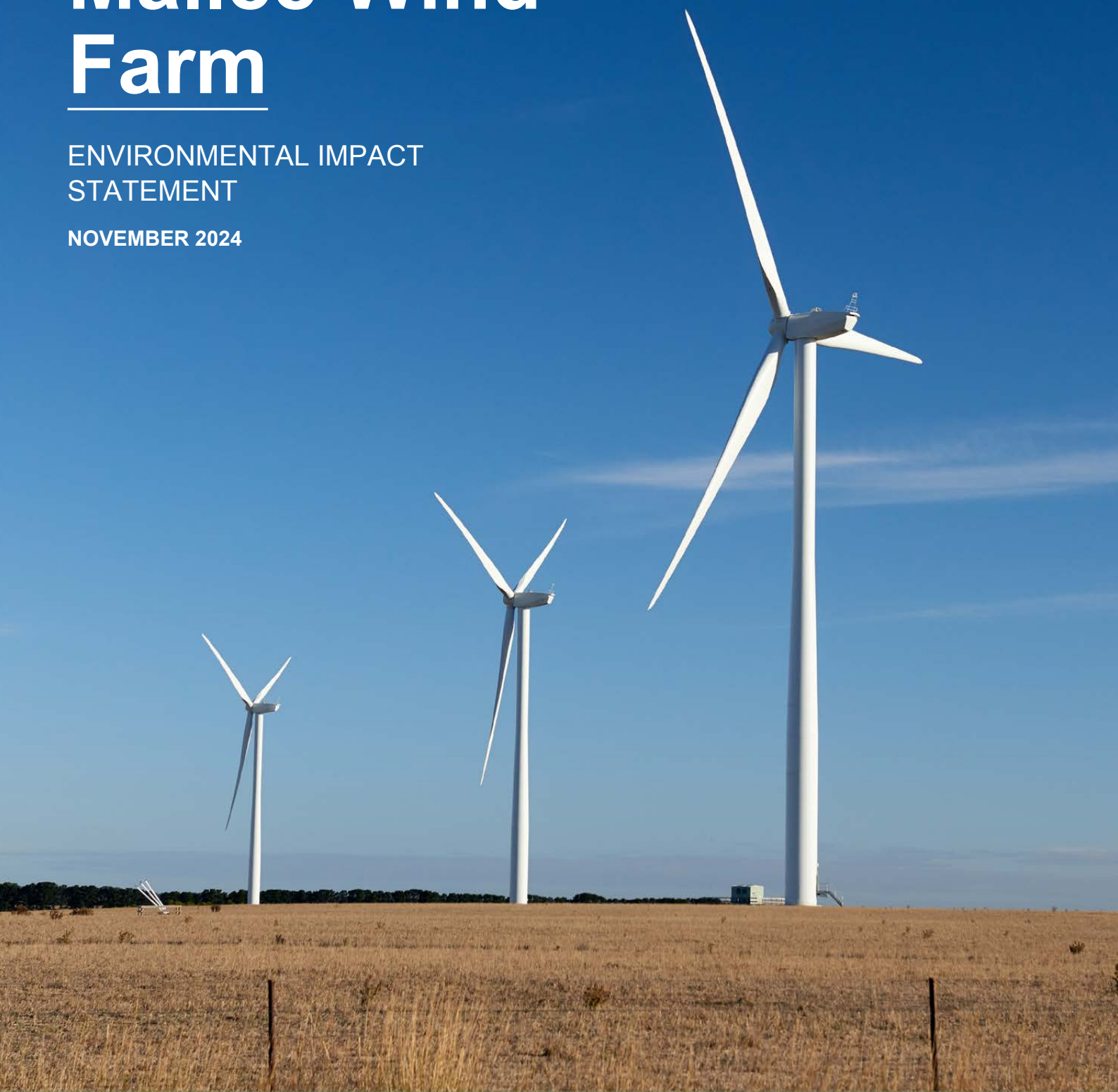


Mallee Wind Farm

ENVIRONMENTAL IMPACT
STATEMENT

NOVEMBER 2024



Appendix 1

SEARS TABLE

Table A1.1 Issued SEARs – General Requirements

Requirement	Relevant Section
The Environmental Impact Statement (EIS) must meet the minimum form and content requirements as prescribed by Part 8, Division 5 of the Environmental Planning and Assessment Regulation 2021 (EP&A Regulation) and must have regard to the State Significant Development Guidelines and the NSW Wind Energy Framework. In particular, the EIS must include:	Refer below
• a stand-alone executive summary;	Executive Summary
• a full description of the development, including:	Section 3.0
○ details of construction, operation and decommissioning, including any proposed staging of the development or refurbishing of turbines over time;	Section 3.6
○ all infrastructure and facilities, such as substations, transmission lines, construction compounds, concrete batching plants, internal access roads, and road upgrades (including any infrastructure that would be required for the development, but the subject of a separate approvals process);	Section 3.5
○ plans for any buildings;	Section 3.0 and Appendix 3.0
○ high-quality site plans and maps at an adequate scale with dimensions showing: ▪ the location and dimensions of all project components including coordinates in latitude / longitude and maximum AHD heights of the turbines; ▪ existing infrastructure, land use, and environmental features in the vicinity of the development, including nearby residences and approved ▪ existing infrastructure, land use, and environmental features in the vicinity of the development, including nearby residences and approved ▪ the development corridor that has been assessed, including any allowance for micro-siting of turbines and identification of the key environmental constraints that have been considered in the design of the development; ▪ consolidated list and GIS data of coordinates of wind turbines, project infrastructure and relevant receivers and distances to potentially impacted receivers; and ▪ details of the progressive rehabilitation of the site;	Section 3.0 and Appendix 3.0
• a list of any approvals that must be obtained before the development may commence;	Appendix 4
• the terms of any proposed voluntary planning agreement with the relevant local council;	Section 2.7.3
• an assessment of the likely impacts of the development on the environment, focusing on the specific issues identified below, including:	Section 6.0

Requirement	Relevant Section
○ a description of the existing environment likely to be affected by the development using sufficient baseline data	Section 6.0
○ an assessment of the likely impacts of all stages of the development (which is commensurate with the level of impact), including any cumulative impacts of the site and existing or proposed developments in the region, in accordance with the Cumulative Impact Assessment Guideline (DPIE, 2021), taking into consideration any relevant legislation, environmental planning instruments, guidelines, policies, plans and industry codes of practice and including the NSW Wind Energy Guidelines for State Significant Wind Energy Development (2016);	Section 6.0
○ a description of the measures that would be implemented to avoid, mitigate and/or offset the impacts of the development, including details of consultation with any affected non-associated landowners in relation to the development of mitigation measures and any negotiated agreements with these landowners), and draft management plans for specific issues as identified below; and	Section 2.7 (Negotiated Agreements) Section 2.8 (Avoidance) Section 6.0 and Appendix 5.0 (Mitigation and Offsetting)
○ a description of the measures that would be implemented to monitor and report on the environmental performance of the development, including adaptive management strategies and contingency measures to address residual impact;	Appendix 5.0
• a consolidated summary of all the proposed environmental management and monitoring measures, identifying all the commitments in the EIS;	Appendix 5.0
• a detailed evaluation of the merits of the project as a whole having regard to:	Section 6.0 and Section 7.0
○ the requirements in Section 4.15 of the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act), and how the principles of ecologically sustainable development have been incorporated in the design, construction and ongoing operations of the development;	Section 7.3
○ the environmental, economic and social costs and benefits of the development, having regard to the predicted electricity demand in NSW and the National Electricity Market, NSW's Climate Change Policy Framework, NSW's Net Zero Plan Stage 1: 2020 - 2030 and the greenhouse gas savings of the development;	Section 6.0 and Section 7.0
○ feasible alternatives to the development and its key components including	Section 2.8
○ project design alternatives to avoid impacts to areas of biodiversity value, indirect impacts to the Mallee Cliffs National Park and areas of archaeological sensitivity, opportunities for shared infrastructure with proposed developments in the region and the consequences of not carrying out the development; and	Section 2.8
○ the suitability of the site with respect to potential land use conflicts with existing and future surrounding land uses, including rural villages, rural dwellings, subdivisions, land of high scenic value, conservation areas (including National Parks, Conservation Areas, State Parks and Nature Reserves), state forests, mineral and coal resources, triangulation stations, tourism facilities, existing or proposed wind farms, and the capacity of the existing electricity transmission network to accommodate the development; and	Section 7.2

Requirement	Relevant Section
a detailed consideration of the capability of the project to the security and reliability of the electricity system in the National Electricity Market, having regard to local system conditions and the Department's guidance on the matter.	Section 2.1.1 and Section 2.1.4.2
Capital Investment Value and Employment - Provide a detailed calculation of the capital investment value (CIV) of the development, prepared by an AIQS Certified Quantity Surveyor or RICS Chartered Quantity Surveyor in accordance with Planning Circular PS 21-020: Calculation of Capital Investment Value. The calculation of the estimated CIV is to be accurate at the date of application and include details of all components and assumptions from which it is derived. - Provide 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.	Provided to DPHI separate to this EIS
The development application must be accompanied by: - the consent of the owner/s of the land (as required in Section 23(1) of the EP&A Regulation); and - a declaration from a Registered Environmental Assessment Practitioner that the EIS includes the information specified in the Department's Registered Environmental Assessment Practitioner Guidelines.	Landowner's consent provided to DPHI separate to this EIS A REAP declaration is provided at page ix of this EIS

Table A1.2 Issued SEARs – Key Issues

Requirement	Relevant Section
Landscape and Visual – including a detailed assessment of the visual impacts of all components of the project (including turbines, transmission lines, substations, and any other ancillary infrastructure in accordance with the NSW Wind Energy: Visual Assessment Bulletin (DPE, 2016), including detailed consideration of potential visual impacts on local residences (including approved developments, lodged development applications and dwelling entitlements), the amenity values of the Mallee Cliffs National Park, scenic or significant vistas and road corridors in the public domain.	Section 6.5 and Appendix 9
Noise and Vibration – including: an assessment of the wind turbine noise in accordance with the NSW Wind Energy: Noise Assessment Bulletin (EPA/DPE, 2016);	Section 6.6 and Appendix 10
an assessment of the noise generated by ancillary infrastructure in accordance with the NSW Noise Policy for Industry (EPA, 2017);	Section 6.6 and Appendix 10
assessment of the construction noise under the Interim Construction Noise Guideline (DECC, 2009) and a draft noise management plan if the assessment shows construction noise is likely to exceed applicable criteria);	Section 6.6 and Appendix 10
assessment of the traffic noise under the NSW Road Noise Policy (DECCW, 2011);	Section 6.6 and Appendix 10

Requirement	Relevant Section
an assessment of vibration under the Assessing Vibration: A Technical Guideline (DECC, 2006);	Section 6.6 and Appendix 10
assess the noise impacts on amenity / recreational use of the Mallee Cliffs National Park (including walking tracks, campgrounds and lookouts) considering comparable noise amenity levels in the NSW Noise Policy for Industry (EPA, 2017); and	Section 6.6 and Appendix 10
assessment of the cumulative noise impacts (considering other developments in the area).	Section 6.6, Section 6.15 and Appendix 10
Biodiversity – including: an assessment of the biodiversity values and the likely biodiversity impacts of the project, including impacts associated with transport route road upgrades and indirect impacts on the Mallee Cliffs National Park and surrounding conservation areas in accordance the <i>Biodiversity Conservation Act 2016</i> (NSW), the Biodiversity Assessment Method (BAM) 2020 and documented in a Biodiversity Development Assessment Report (BDAR), including a detailed description of the proposed regime for avoiding, minimising, managing and reporting on the biodiversity impacts (including on grasslands) of the development over time, and a strategy to offset any residual impacts of the development in accordance with the BC Act;	Section 6.2 and Appendix 6
an assessment of the likely impacts on listed aquatic threatened species, populations or ecological communities, scheduled under the <i>Fisheries Management Act 1994</i>, and a description of the measures to minimise and rehabilitate impacts;	Section 6.2 and Appendix 6
an assessment of the impacts of the development on birds and bats, including blade strike, low air pressure zones at the blade tips (barotrauma), alteration to movement patterns, and cumulative impacts of other wind farms in the vicinity;	Section 6.2 and Appendix 6
a cumulative impact assessment of biodiversity values in the region from nearby developments; and	Section 6.2, Section 6.15 and Appendix 6
if an offset is required, include details of the measures proposed to address the offset obligation.	Section 6.2 and Appendix 6
Heritage – including: an assessment of the impact to Aboriginal cultural heritage items (archaeological and cultural) in accordance with the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (OEH, 2011) and the Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW (DECCW, 2010), including results of archaeological test excavations (if required);	Section 6.3 and Appendix 7
provide evidence of consultation with Aboriginal communities in determining and assessing impacts, developing options and selecting options and mitigation measures (including the final proposed measures), having regard to the Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010); and	Section 6.3 and Appendix 7
an assessment of the impacts to historic heritage having regard to the NSW Heritage Manual.	Section 6.4 and Appendix 8

Requirement	Relevant Section
Transport – including: an assessment of the construction, operational and decommissioning traffic impacts of the development on the local and State road network;	Section 6.8 and Appendix 12
provide details of the peak and average traffic volumes (including light, heavy and over-mass and over-dimensional vehicles / heavy vehicles requiring escort and construction worker transportation) and transport and haulage routes during construction, operation and decommissioning, including traffic associated with sourcing raw materials (water, sand and gravel);	Section 6.8 and Appendix 12
an assessment of the potential traffic impacts of the project on road network function including intersection performance, site access arrangements, site access and haulage routes, and road safety, including school bus routes and school zones;	Section 6.8 and Appendix 12
an assessment of the capacity of the existing road network to accommodate the type and volume of traffic generated by the project (including over-mass / over-dimensional traffic haulage routes from port) during construction, operation and decommissioning;	Section 6.8 and Appendix 12
an assessment of the likely transport impacts to the site access and haulage routes, site access point, any rail safety issues, any Crown Land particularly in relation to the capacity and conditions of the roads and use of rail level crossings (and rail safety assessment if required), and impacts to rail underbridges and overbridges;	Section 6.8 and Appendix 12
a cumulative impact assessment of traffic from nearby developments; and	Section 6.8 and Appendix 12
provide details of measures to mitigate and / or manage potential impacts including a schedule of all required road upgrades (including resulting from over mass / over dimensional traffic haulage routes), road maintenance contributions, and any other traffic control measures, developed in consultation with the relevant road and / or rail authority.	Section 6.8 and Appendix 12
Water and Soils – including: a site water balance for the development, quantify water demand, identify water sources (surface and groundwater), including any licensing requirements, and determine whether an adequate and secure water supply is available for the development;	Section 6.9 and Appendix 13
an assessment of the likely impacts of the development (including flooding and flood modelling) on surface water and groundwater resources traversing the site and surrounding watercourses (including their Strahler Stream Order), drainage channels, wetlands, riparian land, farm dams, groundwater dependent ecosystems and acid sulfate soils, related infrastructure, adjacent licensed water users and basic landholder rights, and measures proposed to monitor, reduce and mitigate these impacts;	Section 6.9 and Appendix 13
where the project involves works within 40 metres of the high bank of any river, lake or wetlands (collectively waterfront land), identify likely impacts to the waterfront land, and how the activities are to be designed and implemented in accordance with the DPI Guidelines for Controlled Activities on Waterfront Land (2018) and (if necessary) Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (DPI 2003); and Policy & Guidelines for Fish Habitat Conservation & Management (DPI, 2013); and	Section 6.9 and Appendix 13

Requirement	Relevant Section
a description of the measures to minimise surface and groundwater impacts, including how works on erodible soil types would be managed and any contingency requirements to address residual impacts in accordance with the Managing Urban Stormwater: Soils and Construction series of guidelines;	Section 6.9 and Appendix 13
Air Quality – including an assessment of risks of dust generation and propose mitigation measures designed in accordance with the Approved Methods and Guidelines for the Modelling and Assessment of Air Pollutants in New South Wales (DECC, 2005).	Section 6.11 and Appendix 15
Land – including:	Section 6.10 and Appendix 14
a detailed justification of the suitability of the site and that the site can accommodate the proposed development having regard to its potential environmental impacts, permissibility, strategic context and existing site constraints;	
an assessment of the potential impacts of the development on existing land uses on the site and adjacent land, including:	Section 6.10 and Appendix 14
- the impact of the development on Mallee Cliffs National Park in accordance with the guidelines for Development adjacent to National Parks and Wildlife Services Lands (DPIE, 2020);	Section 6.10 and Appendix 14
- consideration of agricultural land, biosecurity, irrigated lands, travelling stock routes, flood prone land, Crown lands, mining, quarries, mineral or petroleum rights;	Section 6.10 and Appendix 14
- a soil survey to determine the soil characteristics and consider the potential for erosion to occur; and	Section 6.10 and Appendix 14
- a cumulative impact assessment of nearby developments;	Section 6.10, Section 6.15 and Appendix 14
an assessment of the compatibility of the development with existing land uses, during construction, operation and after decommissioning, including:	Section 6.10 and Appendix 14
- consideration of the zoning provisions applying to the land, including subdivision (if required);	Section 6.10 and Appendix 14
- completion of a Land Use Conflict Risk Assessment in accordance with the Department of Industry's Land Use Conflict Risk Assessment Guide; and	Section 6.10 and Appendix 14
- assessment of impact on agricultural resources and agricultural production on the site and region.	Section 6.10 and Appendix 14
Hazards and Risks – including:	Section 6.13.6 and Appendix 20
<i>Aviation Safety:</i> - assess the impact of the development under the National Airports Safeguarding Framework Guideline D: Managing Wind Turbine Risk to Aircraft;	

Requirement	Relevant Section
provide associated height and co-ordinates for each turbine assessed;	Section 6.13.6 and Appendix 20
assess potential impacts on aviation safety, including cumulative effects of wind farms in the vicinity, potential wake / turbulence issues, the need for aviation hazard lighting and marking, including of wind monitoring masts, considering, defined air traffic routes, aircraft operating heights, approach / departure procedures, radar interference, communication systems, navigation aids, and use of emergency helicopter access;	Section 6.13.6 and Appendix 20
identify aerodromes within 30 km of the turbines and consider the impact to nearby aerodromes and aircraft landing areas;	Section 6.13.6 and Appendix 20
address impacts on obstacle limitation surfaces; and	Section 6.13.6 and Appendix 20
assess the impact of the turbines on the safe and efficient aerial application of agricultural fertilisers and pesticides in the vicinity of the turbines and transmission line;	Section 6.13.6 and Appendix 20
<i>Telecommunications</i> – identify possible effects on telecommunications systems, assess impacts and mitigation measures including undertaking a detailed assessment to examine the potential impacts as well as analysis and agreement on the implementation of suitable options to avoid potential disruptions to radio communication services, including emergency telecommunications systems used by NPWS, which may include the installation and maintenance of alternative sites;	Section 6.13.3 and Appendix 18
<i>Health</i> – consider and document any health issues having regard to the latest advice of the National Health and Medical Research Council, and identify potential hazards and risks associated with electric and magnetic fields (EMF) and demonstrate the application of the principles of prudent avoidance, including an assessment against the International Commission on Non-Ionizing Radiation Protection (ICNIRP) Guidelines for limiting exposure to Time-varying Electric, Magnetic and Electromagnetic Fields;	Section 6.13.5 and Appendix 16
<i>Bushfire</i> – identify potential hazards and risks associated with bushfires / use of bushfire prone land, including the risks that a wind farm would cause bush fire and any potential impacts on the aerial fighting of bushfires and demonstrate compliance with Planning for Bush Fire Protection 2019; and	Section 6.13.2 and Appendix 17
<i>Dangerous Goods</i> – a preliminary risk screening completed in accordance with the State Environmental Planning Policy (Resilience and Hazards) 2021 and ‘Applying SEPP 33’ (DoP, 2011);	Section 6.13.1 and Appendix 16
- Battery Storage - - a preliminary risk screening completed in accordance with the State Environmental Planning Policy (Resilience and Hazards) 2021;	Section 6.13.1 and Appendix 16
- a Preliminary Hazard Analysis (PHA), prepared in accordance with the Hazardous Industry Planning Advisory Paper No. 6, ‘Hazard Analysis’ and Multi-level Risk Assessment (DoP, 2011). The PHA must consider all recent standards and codes and verify separation distances to on-site and off-site receptors to prevent fire propagation and compliance with Hazardous Industry Advisory Paper No. 4, ‘Risk Criteria for Land Use Safety Planning (DoP, 2011); and	Section 6.13.1 and Appendix 16

Requirement	Relevant Section
Blade Throw – assess blade throw risks, including consideration of battery energy storage facilities.	Section 6.13.4 and Appendix 19
Social Impact – including an assessment of the social impacts in accordance with the Social Impact Assessment Guideline (DPIE, 2021) and consideration of construction workforce accommodation.	Section 6.7 and Appendix 11
Economic – including any benefits of the economic impacts or benefits of the project for the region and the State as a whole, including consideration of any increase in demand for community infrastructure services, and details of how the construction workforce will be managed to minimise local impacts, including a consideration of the construction workforce accommodation.	Section 6.12 and Appendix 21
Waste – identify, quantify and classify the likely waste streams to be generated throughout all stages of the project, and describe the measures to be implemented to reduce waste generation, manage, reuse, recycle and safely dispose of this waste.	Section 6.14

Table A1.3 Issued SEARs – Other Requirements

Requirement	
Plans and Documents The EIS must include all relevant plans, architectural drawings, diagrams and relevant documentation required under Part 3 of the Regulation. Provide these as part of the EIS rather than as separate documents. In addition, the EIS must include high quality files of maps and figures of the subject site, proposal, and proposed road upgrades.	Appendix 3
Legislation, Policies and Guidelines The assessment of the key issues listed above must take into account relevant guidelines, policies, and plans as identified. While not exhaustive, a list of some of the legislation, policies and guidelines that may be relevant to the assessment of the project can be found at: https://www.planning.nsw.gov.au/Policy-and-Legislation/Planning-reforms/Rapid-Assessment-Framework/Improving-assessment-guidance https://www.planningportal.nsw.gov.au/major-projects/assessment/policies-andguidelines; and http://www.environment.gov.au/epbc/publications#assessments	This EIS Section 4.0 and Appendix 4
Engagement 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.	Section 5.0

Requirement	
The EIS must: • detail how engagement undertaken was consistent with the Undertaking Engagement Guide: Guidance for State Significant Projects (DPIE, 2021); and • 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. • In particular you must consult with: ○ the relevant local, State or Commonwealth Government authorities, service providers, community groups, affected landowners, exploration licence holders, quarry operators and mineral title holders; and ○ carry out detailed consultation with the following: ▪ Wentworth Shire Council ▪ NSW Aboriginal Land Council ▪ DPE's Biodiversity, Conservation and Science Directorate ▪ NSW National Parks and Wildlife Service ▪ Heritage NSW ▪ Murray Local Land Services ▪ NSW Local Land Services ▪ DPE Water Group ▪ WaterNSW ▪ Environment Protection Authority ▪ Crown Lands ▪ Regional NSW – Mining, Exploration & Geoscience ▪ Department of Primary Industries – Agriculture and Fisheries divisions ▪ Transport for New South Wales ▪ Transgrid ▪ Department of Customer Service – Telco Authority ▪ Fire & Rescue NSW ▪ NSW Rural Fire Service ▪ Commonwealth Department of Defence ▪ Civil Aviation Safety Authority ▪ Airservices Australia.	

Requirement	
Expiry Date If you do not lodge a Development Application and EIS for the development within 2 years of the issue date of these SEARs, your SEARs will expire. If an extension to these SEARs will be required, please consult with the Planning Secretary 3 months prior to the expiry date.	The EIS will be submitted prior to the two year expiry date, being 17 February 2025.

Table A1.4 Issued SEARs – Agency Advice

Agency	Advice (Major Projects Website Link)	Section
AirServices Australia	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224920.595%20GMT	Section 6.13.6 and Appendix 20
Biodiversity Conservation Division and National Parks and Wildlife Service	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224920.884%20GMT	Section 6.2 and Appendix 6 (Biodiversity) Section 7.3.5 (Mallee Cliffs National Park)
Civil Aviation Safety Authority (CASA)	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224921.142%20GMT	N/A – no specific requirements to address
NSW Crown Lands	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224921.332%20GMT	Section 2.5.2
Department of Planning and Environment - Water	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224921.559%20GMT	Section 6.9 and Appendix 13
Department of Primary Industries - Agriculture	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224921.764%20GMT	Section 6.10 and Appendix 14
Department of Primary Industries - Fisheries	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224921.947%20GMT	Section 6.2.5 and Appendix 6
Environment Protection Authority	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224922.154%20GMT	N/A – No specific requirements to address
Fire and Rescue NSW	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224922.384%20GMT	Section 6.13.2 and Appendix 17
Heritage Council	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224922.649%20GMT	Section 6.4 and Appendix 8
Heritage NSW	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224922.864%20GMT	Section 6.3 and Appendix 7

Agency	Advice (Major Projects Website Link)	Section
Mining, Exploration and Geoscience	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224923.097%20GMT	Section 2.5.2
NSW Rural Fire Service	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230322T102752.610%20GMT	Section 6.13.2 and Appendix 17
Transport for NSW	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224923.444%20GMT	Section 6.8 and Appendix 12
Wentworth Shire Council	https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSD-53293710%2120230216T224923.692%20GMT	N/A – No specific requirements to address

Table A1.5 Supplementary SEARs – EPBC Act

Requirement	Section
<i>Introduction</i> 1. On 7 June 2023, a delegate of the Federal Minister for the Environment and Water (formerly Department of Agriculture, Water and the Environment) determined Mallee Wind Farm was a controlled action under section 75 of the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). The EPBC Act controlling provisions for the proposed actions are: i. World Heritage Properties (sections 12 and 12A) ii. National Heritage Places (sections 15B and 15C) iii. listed threatened species and communities (sections 18 and 18A) iv. listed migratory species (sections 20 and 20A).	This EIS
2. The proposed action will be assessed in accordance with the bilateral assessment agreement Amending Agreement No. 1, and as such, is required to be assessed in the manner specified in Schedule 1 to that Agreement, including, addressing the matters outlined in Schedule 4 of the Environment Protection and Biodiversity Conservation Regulations 2000 (EPBC Regulations).	This EIS
3. The proponent must undertake an assessment of all protected matters that may be impacted by the development under the controlling provision identified in paragraph 1. The Commonwealth Federal Minister for the Environment and Water considers that the proposed action is likely to have a significant impact on threatened species and communities listed in Appendix A.	This EIS
4. The proponent must consider each of the protected matters under the triggered controlling provisions that may be impacted by the action. Note that this may not be a complete list and it is the responsibility of the proponent to undertake an analysis of the relevant impacts and ensure all protected matters that are likely to be impacted are assessed for the Commonwealth Minister's consideration.	This EIS

Requirement	Section
General Requirements <i>Relevant Regulations</i> 5. The Environmental Impact Statement (EIS) must address all matters outlined in Schedule 4 of the EPBC Regulations and all matters outlined below in relation to the controlling provisions.	This EIS
<i>Project Description</i> 6. The title of the action, background to the action and current status.	Section 3.0
7. The precise location and description of all works to be undertaken (including associated offsite works and infrastructure), structures to be built or elements of the action that may have impacts on Matters of National Environmental Significance (MNES).	Section 3.0
8. How the action relates to any other actions that have been, or are being taken in the region affected by the action.	Section 3.0
9. How the works are to be undertaken and design parameters for those aspects of the structures or elements of the action that may have relevant impacts on MNES.	Section 3.0
<i>Impacts</i> 10. The EIS must include an assessment of the relevant impacts of the action on the matters protected by the controlling provisions, including: i. a description and detailed assessment of the nature and extent of the likely direct, indirect and consequential impacts, including short term and long term relevant impacts; ii. a statement whether any relevant impacts are likely to be unknown, unpredictable or irreversible; iii. analysis of the significance of the relevant impacts; and iv. any technical data and other information used or needed to make a detailed assessment of the relevant impacts.	Appendix 6 (Appendix C)
<i>Avoidance, mitigation and offsetting</i> 11. For each of the relevant matters protected that are likely to be significantly impacted by the action, the EIS must provide information on proposed avoidance and mitigation measures to manage the relevant impacts of the action including: i. a description, and an assessment of the expected or predicted effectiveness of the mitigation measures, i. any statutory policy basis for the mitigation measures; ii. the cost of the mitigation measures; iii. an outline of an environmental management plan that sets out the framework for continuing management, mitigation and monitoring programs for the relevant impacts of the action, including any provisions for independent environmental auditing; iv. the name of the agency responsible for endorsing or approving each mitigation measure or monitoring program.	Appendix 6 (Appendix C)
12. Where a significant residual adverse impact to a relevant protected matter is considered likely, the EIS must provide information on the proposed offset strategy, including discussion of the conservation benefit associated with the proposed offset strategy.	Section 6.2 and Appendix 6 (Appendix C)

Requirement	Section
13. For each of the relevant matters likely to be impacted by the action the EIS must provide reference to, and consideration of, relevant Commonwealth guidelines and policy statements including any: i. conservation advice or recovery plan for the species or community; ii. relevant threat abatement plan for the species or community; iii. wildlife conservation plan for the species; and iv. any strategic assessment.	Appendix 6 (Appendix C)
14. In addition to the general requirements described above, specific information is required with respect to each of the determined controlling provisions. These requirements are outlined in paragraphs 15-17.	Noted
Key Issues Biodiversity (threatened species and communities and migratory species) <i>Assessment Requirements</i> 15. The EIS must identify each EPBC Act listed threatened species and community and migratory species likely to be impacted by the action. For any species and communities that are likely to be impacted, the proponent must provide a description of the nature, quantum and consequences of the impacts. For species and communities potentially located in the project area or in the vicinity that are not likely to be impacted, provide evidence why they are not likely to be impacted.	Appendix 6 (Appendix C)
16. For each of the EPBC Act listed threatened species and communities and migratory species likely to be impacted by the action the EIS must provide a separate: i. description of the habitat (including identification and mapping of suitable breeding habitat, suitable foraging habitat, important populations and habitat critical for survival), with consideration of, and reference to, any relevant Commonwealth guidelines and policy statements including listing advice, conservation advice and recovery plans; ii. details of the scope, timing and methodology for studies or surveys used and how they are consistent with (or justification for divergence from) published Australian Government guidelines and policy statements; iii. description of the relevant impacts of the action having regard to the full national extent of the species or community's range; iv. description of the specific proposed avoidance and mitigation measures to deal with relevant impacts of the action; v. identification of significant residual adverse impacts likely to occur after the proposed activities to avoid and mitigate all impacts are taken into account; vi. a description of any offsets proposed to address residual adverse significant impacts and how these offsets will be established; vii. details of how the current published NSW Biodiversity Assessment Method (BAM) has been applied in accordance with the objects of the EPBC Act to offset significant residual adverse impacts; and	Appendix 6 (Appendix C)

Requirement	Section
viii. details of the offset package to compensate for significant residual impacts including details of the credit profiles required to offset the action in accordance with the BAM and/or mapping and descriptions of the extent and condition of the relevant habitat and/or threatened communities occurring on proposed offset sites.	
17. Any significant residual impacts not addressed by the BAM may need to be addressed in accordance with the EPBC Act 1999 Environmental Offset Policy.	Appendix 6 (Appendix C)
Other approvals and conditions 18. Information in relation to any other approvals or conditions required must include the information prescribed in Schedule 4 Clause 5 (a) (b) (c) and (d) of the EPBC Regulations.	Appendix 6 (Appendix C)
Environmental Record of person proposing to take the action 19. Information in relation to the environmental record of a person proposing to take the action must include details as prescribed in Schedule 4 Clause 6 of the EPBC Regulations.	Appendix 6 (Appendix C)
Information Sources 20. For information given in an EIS, the EIS must state the source of the information, how recent the information is, how the reliability of the information was tested; and what uncertainties (if any) are in the information.	Appendix 6 (Appendix C)



Notification of referral decision and designated proponent – controlled action

Mallee Wind Farm, Mallee, NSW (EPBC 2023/09500)

This decision is made under section 75 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Proposed action

designated proponent	Spark Renewables Pty Ltd ACN: 632 860 023
proposed action	Construction, operation, maintenance and decommissioning of a 150-turbine wind farm, a battery energy storage system, ancillary infrastructure and temporary construction facilities.

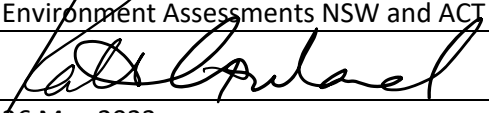
Referral decision: controlled action

status of proposed action	The proposed action is a controlled action. The project will require assessment and approval under the EPBC Act before it can proceed.
relevant controlling provisions	- World Heritage properties (sections 12 & 15A) - National Heritage places (sections 15B & 15C) - Listed threatened species and communities (sections 18 & 18A) - Listed migratory species (sections 20 & 20A).

Assessment approach

assessment approach	The project will be assessed under the assessment bilateral agreement with New South Wales.
----------------------------	---

Person authorised to make decision

name and position	Kate Gowland Branch Head Environment Assessments NSW and ACT
signature	
date of decision	26 May 2023



EPBC ref: 2023/09500

Laurie Wallis
Senior Development Officer
SPARK RENEWABLES PTY LTD
laurie.wallis@sparkrenewables.com

Decision on referral, assessment approach – bilateral agreement for Mallee Wind Farm, Mallee, NSW

Dear Mr Wallis

Thank you for submitting a referral under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). This is to advise you of my decision about the referral of the proposed action to install, operate, maintain and decommission up to 150 wind turbines, a battery energy storage system, ancillary infrastructure and temporary facilities associated with construction.

Decision on referral

As a delegate of the Minister for the Environment and Water, I have decided under section 75 of the EPBC Act that the proposed action is a controlled action. Therefore further assessment is needed before a decision can be made on whether or not approval can be granted under the EPBC Act.

The information I have considered indicates that the proposed action is likely to have a significant impact on the following matters protected by the EPBC Act:

- World Heritage (sections 12 and 15A)
- National Heritage values of a national heritage place (sections 15B and 15C)
- Listed threatened species and communities (section 18 & section 18A)
- Listed migratory species (section 20 & section 20A).

Based on the information available in the referral, the proposed action is likely to have a significant impact on the following matters of national environmental significance, including but not limited to:

- Impacts on the World Heritage Values and National Heritage Values of the Willandra Lakes Region World Heritage Area from the visual effects of the windfarm.
- Direct impacts from bird strike and on foraging and breeding habitat, and indirect impacts from construction light and noise on threatened species and migratory species, including, but not limited to:
 - Major Mitchell's Cockatoo (*Lophochroa leadbeatri leadbeateri*) – Endangered
 - Blue-winged Parrot (*Neophema chrysostoma*) – Vulnerable
 - Curlew Sandpiper (*Calidris ferruginea*) – Critically Endangered
 - Sharp-tailed Sandpiper (*Calidris acuminata*) – Marine Migratory.

A copy of the document recording this decision is attached and will be published on the department's website.

Please note that this decision only relates to the potential for significant impacts on matters protected by the Australian Government under Chapter 2 of the EPBC Act.

Decision on assessment approach

The New South Wales Government has advised the department that your proposed action will be assessed under a bilateral agreement under section 45 of the EPBC Act, relating to environmental assessment between the Commonwealth and New South Wales Government. The New South Wales Government, through the Department of Planning and Environment, will contact you shortly about incorporating the EPBC Act assessment requirements into your state assessment documents.

You will also need to consult with First Nations people and communities during the assessment process. Please refer to our [First Nations engagement guidelines](#) for more information on how and when to engage with First Nations people and communities and the advice from the National Indigenous Australians Agency below.

Comments from Commonwealth Ministers regarding the proposed action

The National Indigenous Australians Agency (NIAA) provided comments on the referral, on behalf of the Minister for Indigenous Australians.

The NIAA recommends that Spark Renewables engage with the Traditional Owners and other First Nations stakeholders with an interest in the project, and provide them with sufficient time to make informed assessments of the possible impacts of the project.

The NIAA notes that direct engagement is the most effective way to ensure any concerns are identified and addressed, and recommends ongoing engagement on other matters including cultural, environmental, social and economic matters which may affect First Nations stakeholders.

The NIAA notes that the project is located on the lands of the Barkandji/Paakantyi, Mutthi Mutthi and Ngiyampaa peoples. And recommends that Spark Renewables engage with the Traditional Owners directly.

The NIAA recommends that the Aboriginal Cultural Heritage Assessment (ACHA) be conducted in collaboration with Registered Aboriginal Parties, and that the ACHA should identify tangible and intangible cultural heritage values. The NIAA also suggests that Spark Renewables engages First Nations stakeholders on the impacts of visual amenity on culture, particularly in relation to songlines and changes to the cultural landscape.

The NIAA also encourages Spark Renewables to pursue opportunities for long-term energy use benefits for First Nations communities and a positive legacy for the Mallee Wind Farm. Spark Renewables should consider opportunities to improve local First Nations community energy access, security and affordability through measures including infrastructure upgrades, provision of community shares and equity stakes in the project and community grants through a Social Contribution Action Plan.

Cost Recovery

Under subsection 520(4A) of the EPBC Act and the *Environment Protection and Biodiversity Conservation Regulations 2000* (EPBC Regulations), your assessment is subject to cost recovery. Attached is a copy of the initial fee schedule for your proposed action. Statements of charges will be sent to the project's nominated entity responsible for payment. Fees must be paid before each stage of the assessment can commence. Further details on [cost recovery](#) are available on the department's website.

If you disagree with the fee schedule provided, you may apply under section 514Y of the EPBC Act for reconsideration of the method used to work out the fee. You must make your one-off request within 30 business days of the date of this letter. Further details regarding the [reconsideration process](#) can be found on the department's website.

Additional Costs

You may elect under section 132B of the EPBC Act to submit a management plan for approval at any time before the Minister for the Environment and Water makes an approval decision of the proposed action under section 133 of the EPBC Act.

If an election is made under section 132B of the EPBC Act, cost recovery will apply to the approval of any action management plans you submit.

Cost recovery does not apply to the approval of action management plans where you do not elect to submit an action management plan for approval under section 132B of the EPBC Act and the approval of the action management plan does not arise from a variation to the approval conditions that you have requested.

Where you vary an approval condition and it results in you being required to submit an action management plan for approval, cost recovery will apply to the approval of the action management plan. Please refer to the attached Action Management Plan fee election form.

Further guidance

I have also written to the following parties to advise them of this decision:

Delegate of the NSW Minister for Planning	Mr Tim Kirby
Minister for Indigenous Australians	The Hon Linda Burney
Minister for Defence	The Hon Richard Marles

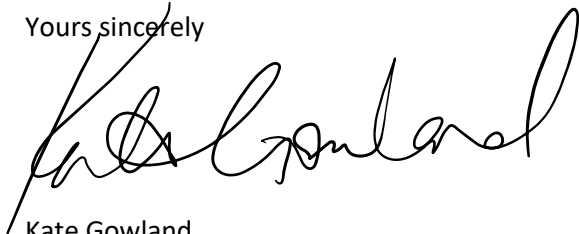
Please also note that once a proposal to take an action has been referred under the EPBC Act, it is an offence under section 74AA(1) to take any component of the action while the decision-making process is ongoing (some exemptions may apply). Persons convicted of an offence under this provision of the EPBC Act may be liable for a penalty of up to 500 penalty units.

The department has published an [Environmental Impact Assessment Client Service Charter](#) which outlines the department's commitments when undertaking environmental impact assessments under the EPBC Act.

OFFICIAL

If you have any questions about the referral process or this decision, please contact the project manager, Jessica Eldridge, by email to Jessica.Eldridge@dcceew.gov.au, or telephone (02) 5156 343 and quote the EPBC reference number shown at the beginning of this letter.

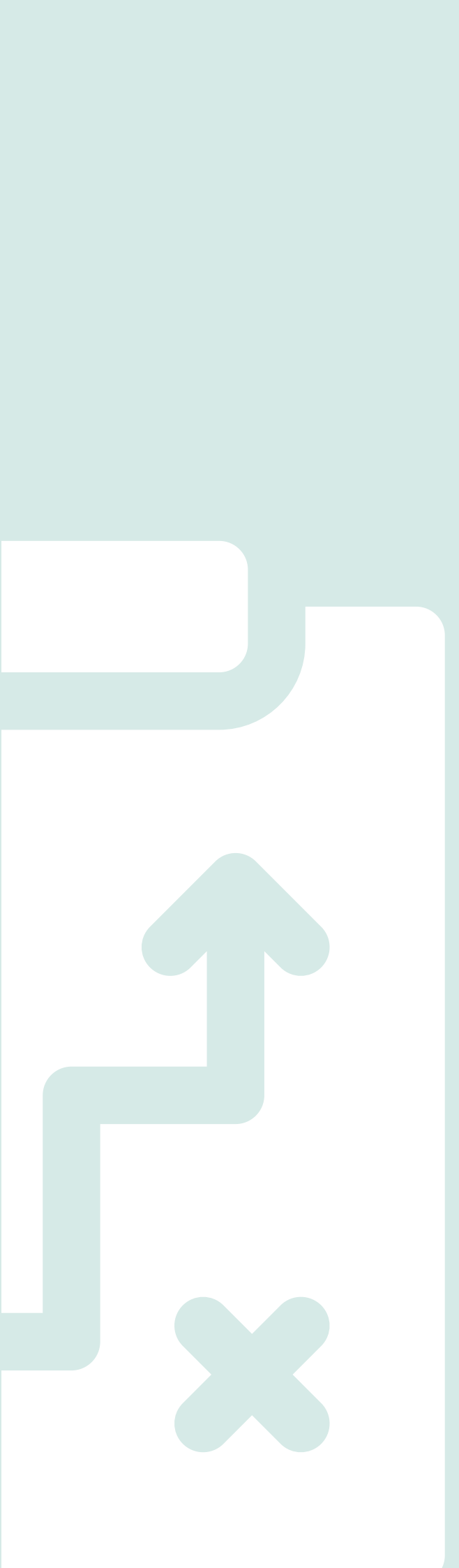
Yours sincerely

A handwritten signature in black ink, appearing to read 'Kate Gowland', written in a cursive style.

Kate Gowland
Branch Head
Environment Assessments NSW and ACT Branch
26 May 2023

Appendix 2

SCHEDULE OF LAND



Schedule of Land

Lot/Section/DP	Land Tenure	Ownership
Project Area		
7/DP1256363	Freehold	Landowner 1 (Owner)
1726/DP763664	Crown	Landowner 2 (Lessee)
1727/DP763667	Crown	Landowner 2 (Lessee)
3805/DP763156	Crown	Landowner 3 (Lessee)
3/DP756993	Freehold	Landowner 3 (Owner)
1/DP756995	Freehold	Landowner 3 (Owner)
3/DP1182353	Freehold	Landowner 4 (Owner)
1/DP1233260	Freehold	Landowner 4 (Owner)
Offsite Road Works		
No Lot or DP number, area is located at the intersection of Sturt Highway and Carey Street as per Figure 3.14	State Controlled Road	NSW Government
No Lot or DP number, area is located at the intersection of Sturt Highway and Silver City Highway as per Figure 3.15	State Controlled Road	NSW Government
No Lot or DP number, area is located at the intersection of Silver City Highway and Arumpo Road as per Figure 3.16	Local Government Authority	Wentworth Shire Council
No Lot or DP number, area is located on Arumpo Road adjacent the Project access points as per Figure 3.12	Local Government Authority	Wentworth Shire Council

Appendix 3

DETAILED MAPS AND PLANS



Indicative Wind Turbine Generator (WTG) Locations

WTG_ID	Easting_m	Northing_m	Terrain elevation (m, AHD)	WTG height AGL (m)	Maximum height (m, AHD)
T1	626166	6220309	103	273	383
T2	626562	6219788	103	273	383
T3	626982	6219239	111	281	391
T4	627416	6218668	117	287	397
T5	627801	6218166	118	288	398
T6	628227	6217605	109	279	389
T7	628654	6217050	103	273	383
T8	629071	6216502	100	270	380
T9	629655	6216944	92	262	372
T10	628182	6219456	118	288	398
T11	628987	6218771	110	280	390
T12	629589	6218233	99	269	379
T13	628025	6221832	103	273	383
T14	628399	6220830	113	283	393
T15	628983	6220349	118	288	398
T16	629631	6219604	103	273	383
T17	630121	6219043	91	261	371
T18	627314	6224254	90	260	370
T19	627726	6223608	98	268	378
T20	629143	6222182	113	283	393
T21	629800	6221435	109	279	389
T22	630450	6220621	101	271	381
T23	630877	6219637	87	257	367
T24	628037	6224706	98	268	378
T25	628812	6223288	105	275	385
T26	628508	6225824	97	267	377
T27	628936	6225264	103	273	383
T28	629548	6224573	112	282	392
T29	630060	6223894	116	286	396
T30	630590	6223137	111	281	391
T31	631271	6222518	104	274	384
T32	631466	6221726	93	263	373
T33	632280	6220715	77	247	357
T34	630804	6225324	102	272	382
T35	631389	6224483	101	271	381
T36	631920	6223778	100	270	380
T37	632449	6223062	84	254	364
T38	633128	6222141	72	242	352
T39	633337	6224176	75	245	355
T40	630251	6228029	103	273	383
T41	630728	6227407	104	274	384
T42	630581	6228925	103	273	383
T43	631552	6227652	113	283	393
T44	632485	6227485	103	273	383
T45	633144	6226553	81	251	361

WTG_ID	Easting_m	Northing_m	Terrain elevation (m, AHD)	WTG height AGL (m)	Maximum height (m, AHD)
T46	633738	6225888	71	241	351
T47	634330	6225099	69	239	349
T48	630477	6229950	95	265	375
T49	631053	6229824	104	274	384
T50	633935	6228047	77	247	357
T51	634684	6227527	70	240	350
T52	635432	6227202	71	241	351
T53	636386	6227359	66	236	346
T54	637265	6227879	70	240	350
T55	634487	6230605	89	259	369
T56	635920	6230340	80	250	360
T57	635125	6231384	94	264	374
T58	637174	6232054	82	252	362
T59	638038	6231841	84	254	364
T60	638822	6231473	81	251	361
T61	639772	6231789	78	248	358
T62	638245	6233229	83	253	363
T63	635107	6234780	109	279	389
T64	635736	6234694	110	280	390
T65	636434	6234598	96	266	376
T66	637357	6234430	85	255	365
T67	638306	6234299	80	250	360
T68	639076	6234107	84	254	364
T69	633187	6236388	103	273	383
T70	633871	6236658	111	281	391
T71	634447	6236253	117	287	397
T72	634515	6237559	110	280	390
T73	635548	6237241	118	288	398
T74	634088	6238563	100	270	380
T75	635182	6238321	107	277	387
T76	636184	6238353	104	274	384

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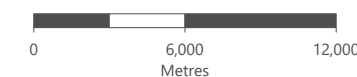
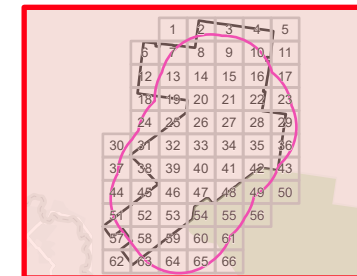
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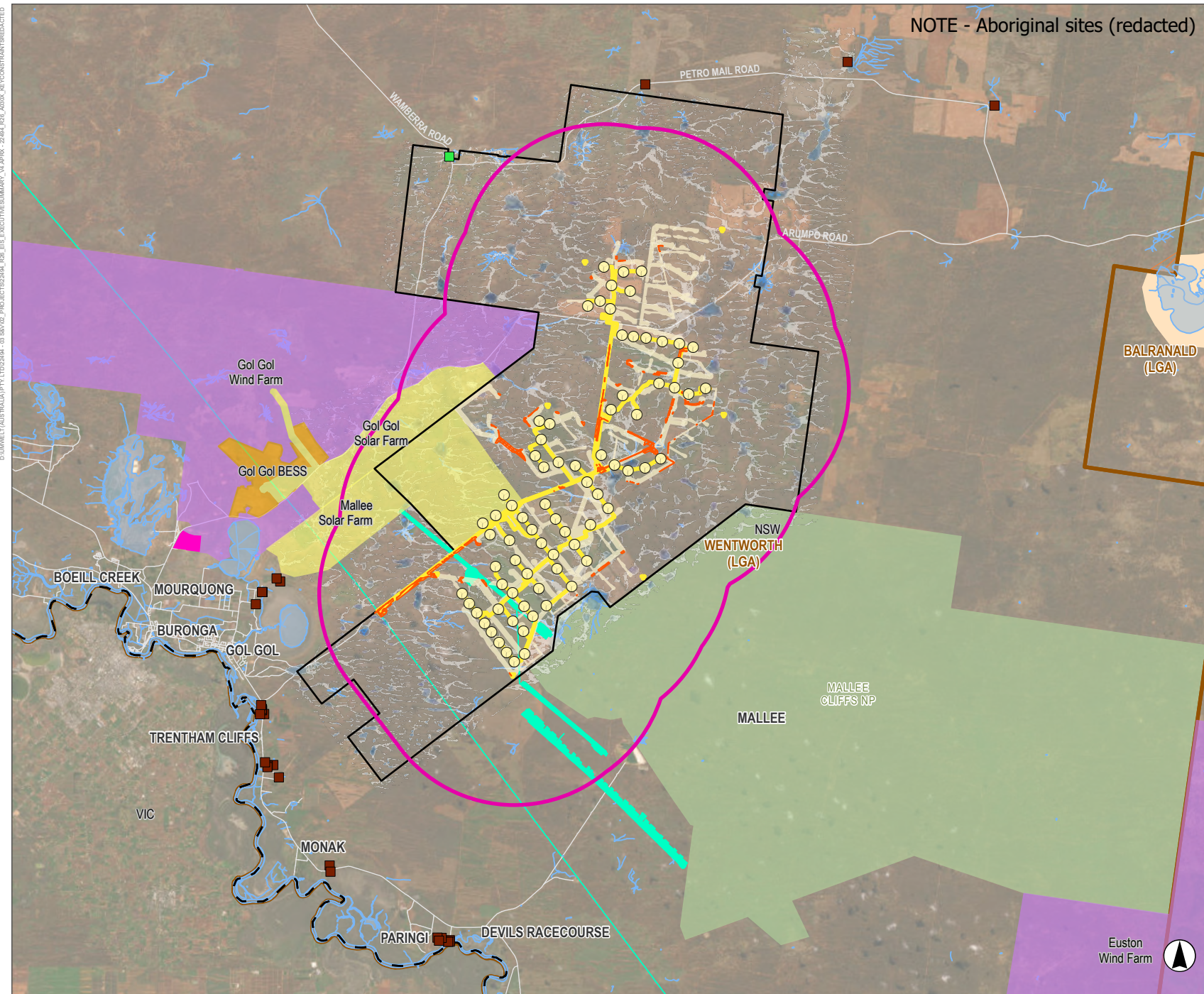
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NOTE - Aboriginal sites (redacted)

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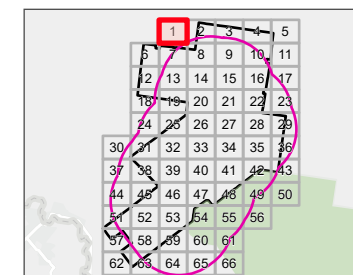
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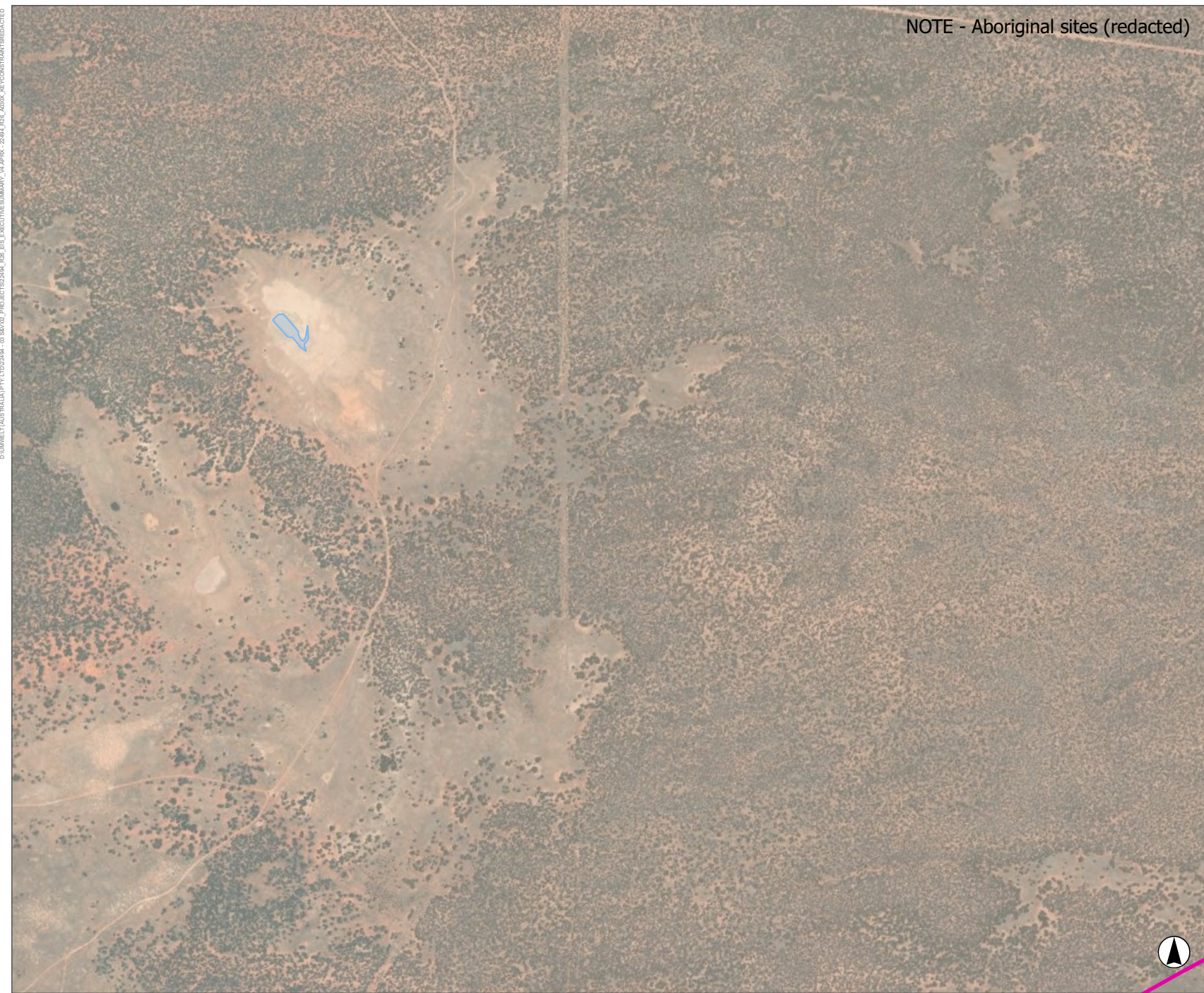
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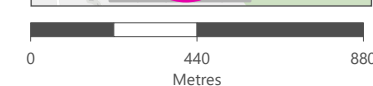
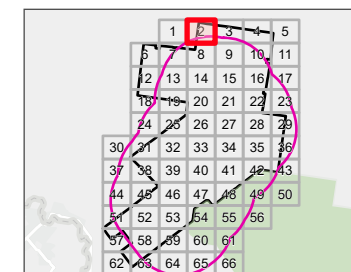
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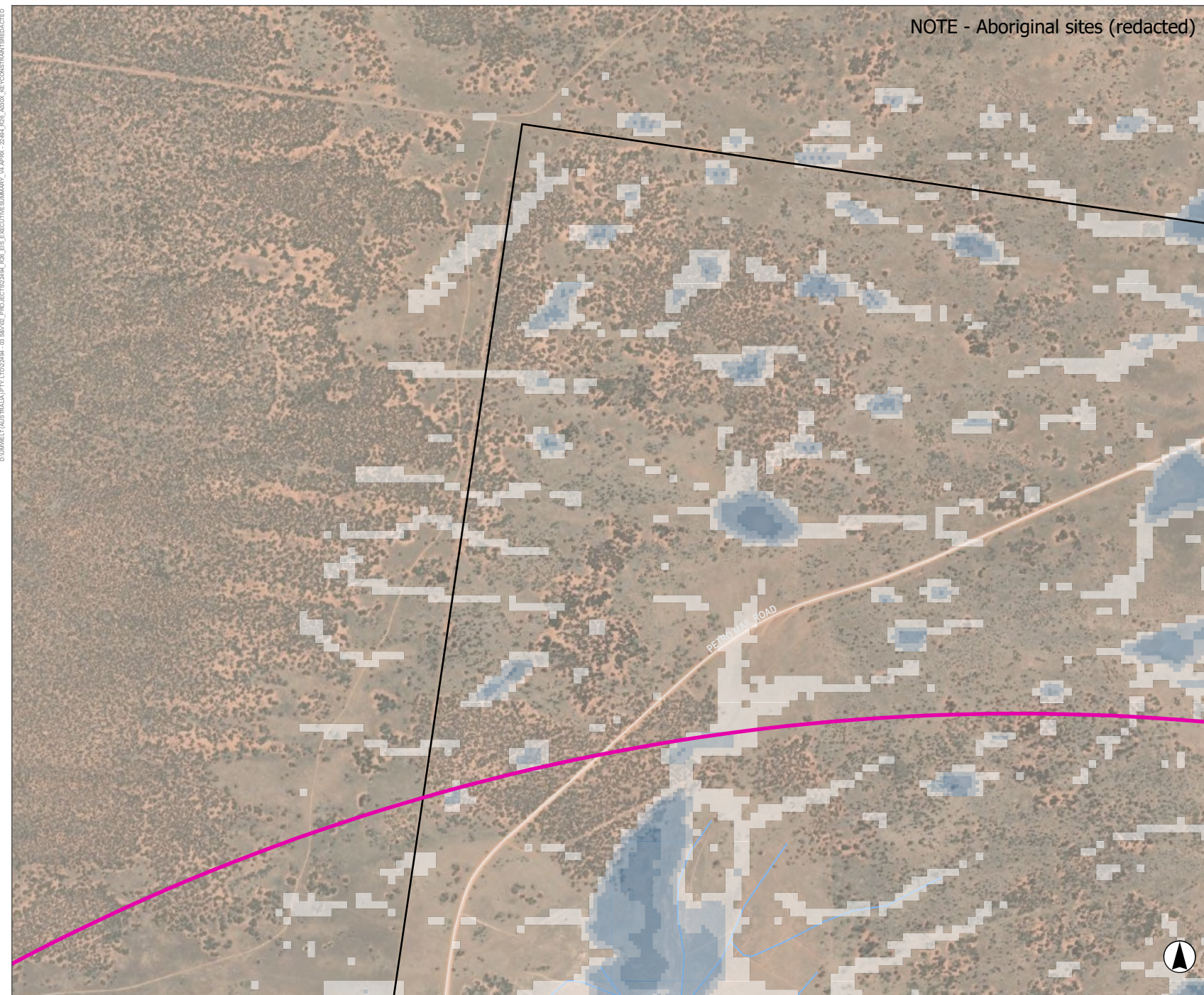
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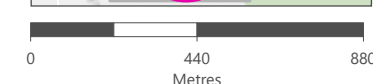
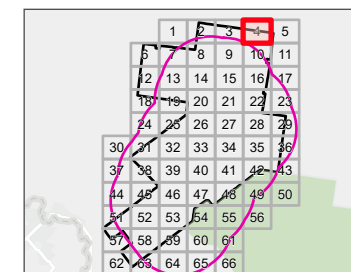
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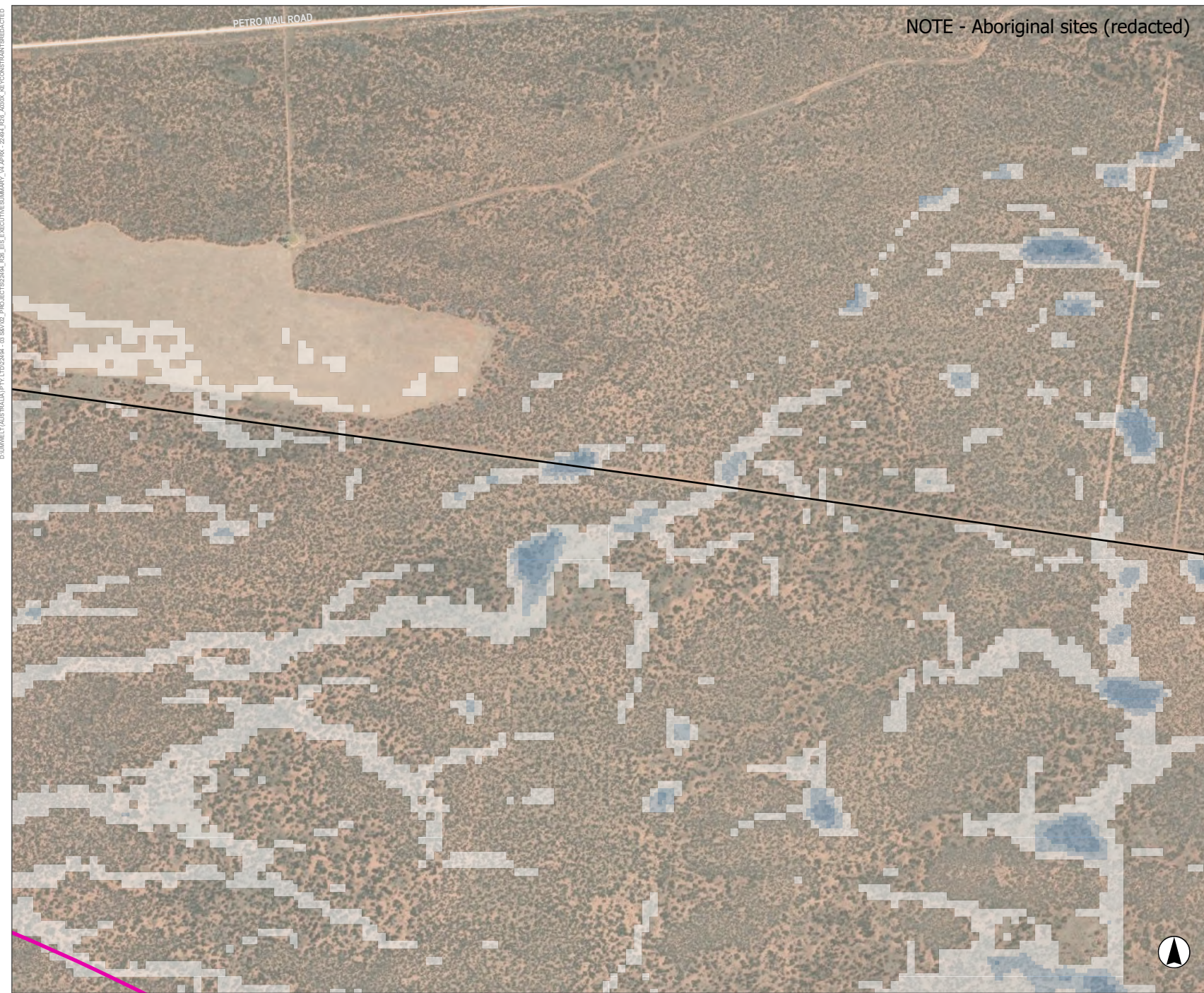
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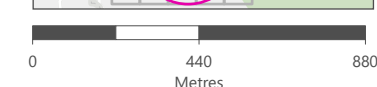
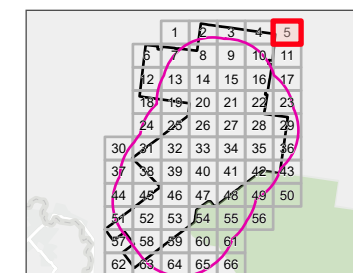
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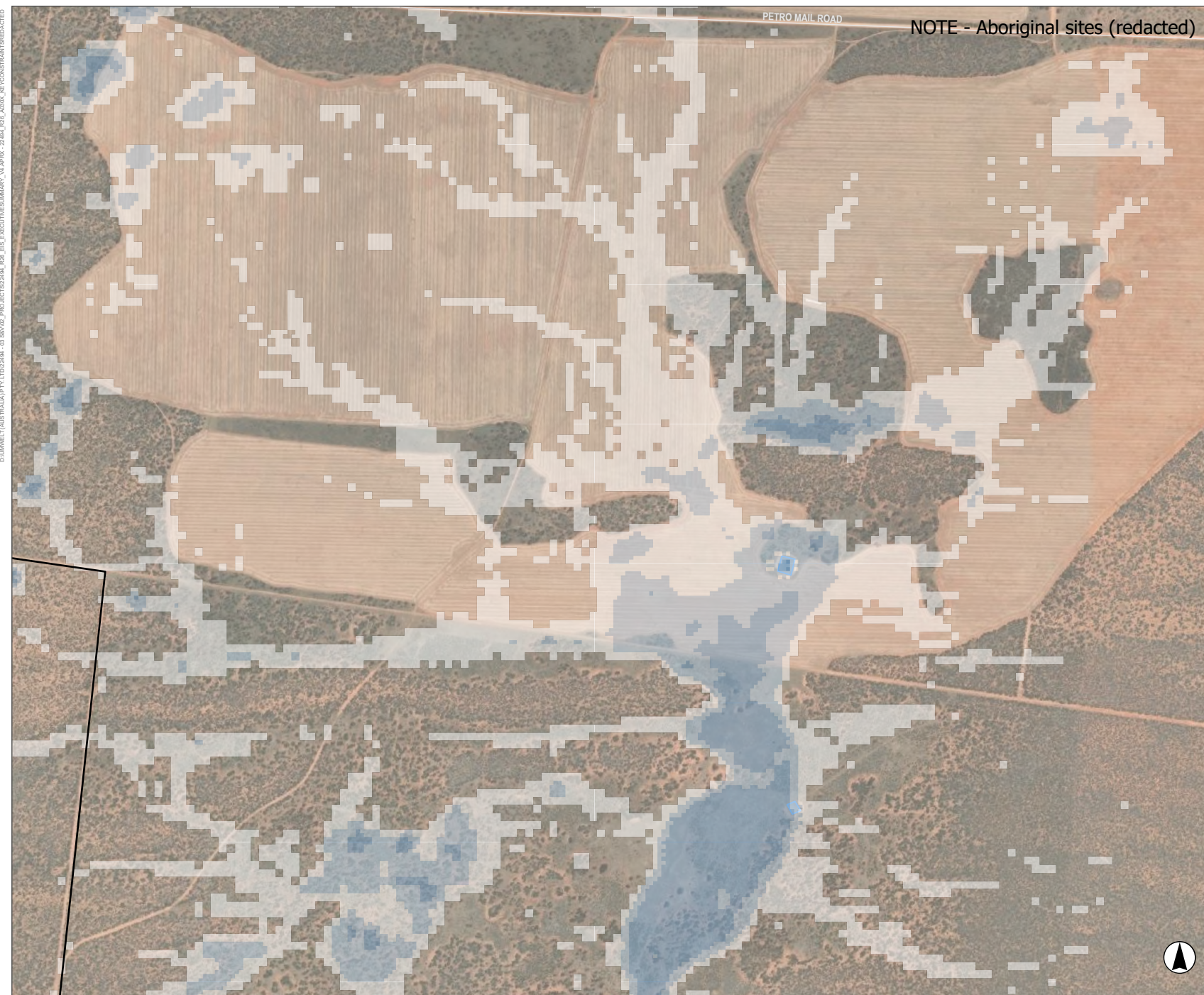
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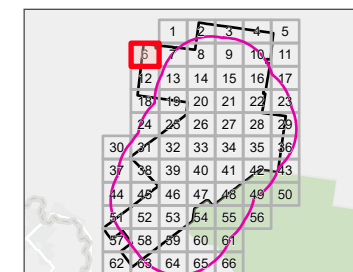
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1% AEP Flood Hazard

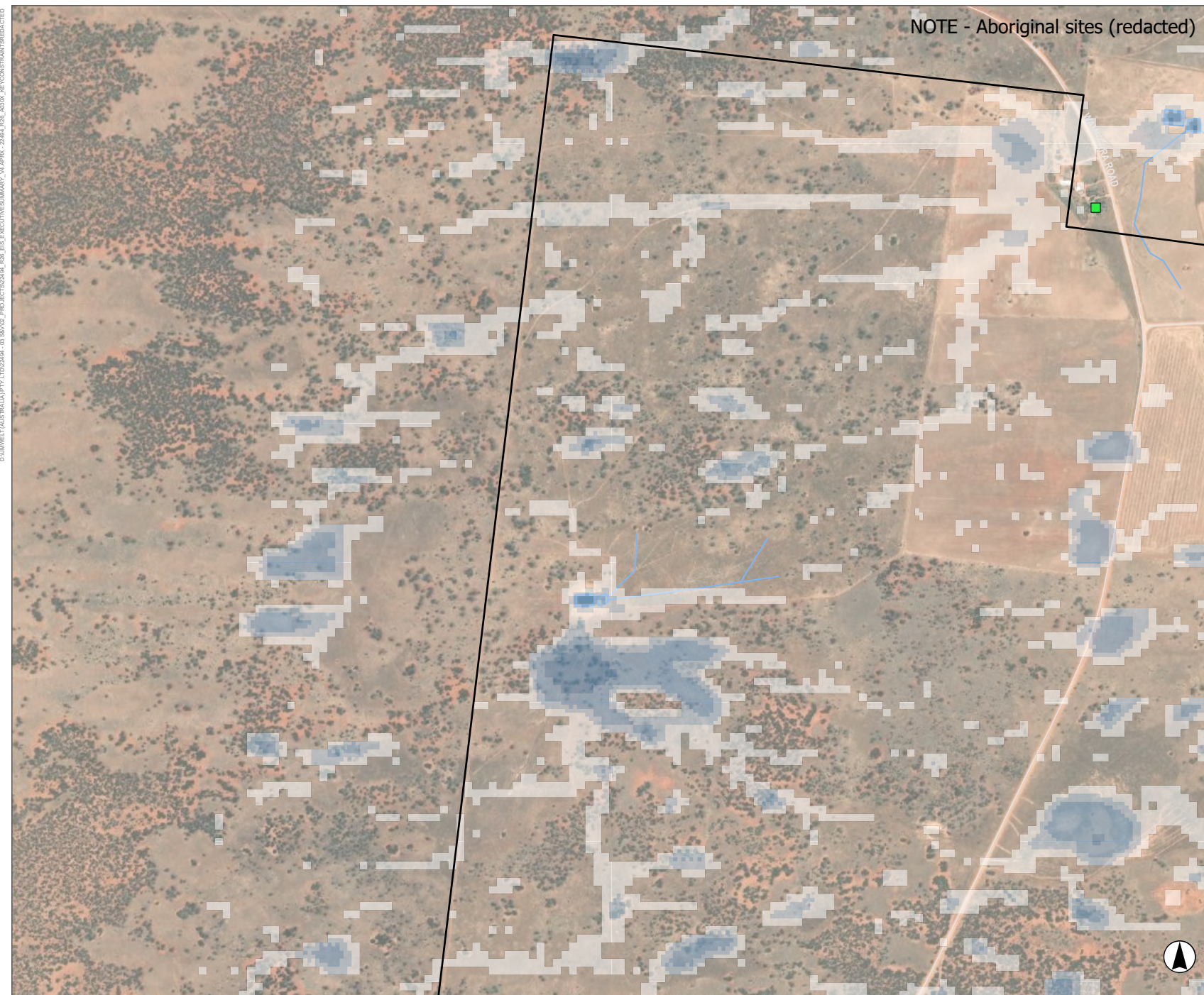
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NOTE - Aboriginal sites (redacted)



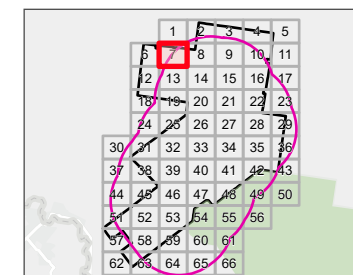


Key Constraints Redacted

- Project Boundary
- Study area (8km from WTGs)
- Disturbance Footprint
- Access Points
- Wind Turbine Generators
- Host Dwelling
- Non-associated Dwelling
- Mallee Bird Community of the Depression Bioregion EEC
- Mallee Bird Community of the Depression Bioregion EEC
- Existing HV Transmission Line
- Willandra Lakes Region / National Property
- Willandra Lakes World Heritage State Border
- Local Government Area (LGA)
- NPWS Estates
- Road
- Watercourse

 Solar Farm Project
 Hybrid Project
 Wind Farm Project
 Euston Mineral Sands Project
 Buronga Landfill Expansion

	H1		H4
	H2		H5
	H3		H6



0 440 880
Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.08

Key Constraints Redacted

Legend

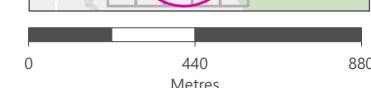
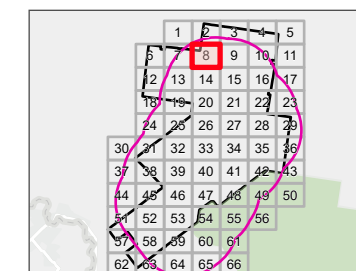
- Project Boundary
- Study area (8km from WTGs)
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- Wind Turbine Generators
- Host Dwelling
- Non-associated Dwelling
- Mallee Bird Community of the Murray Darling Depression Bioregion EEC
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- NPWS Estates
- Road
- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

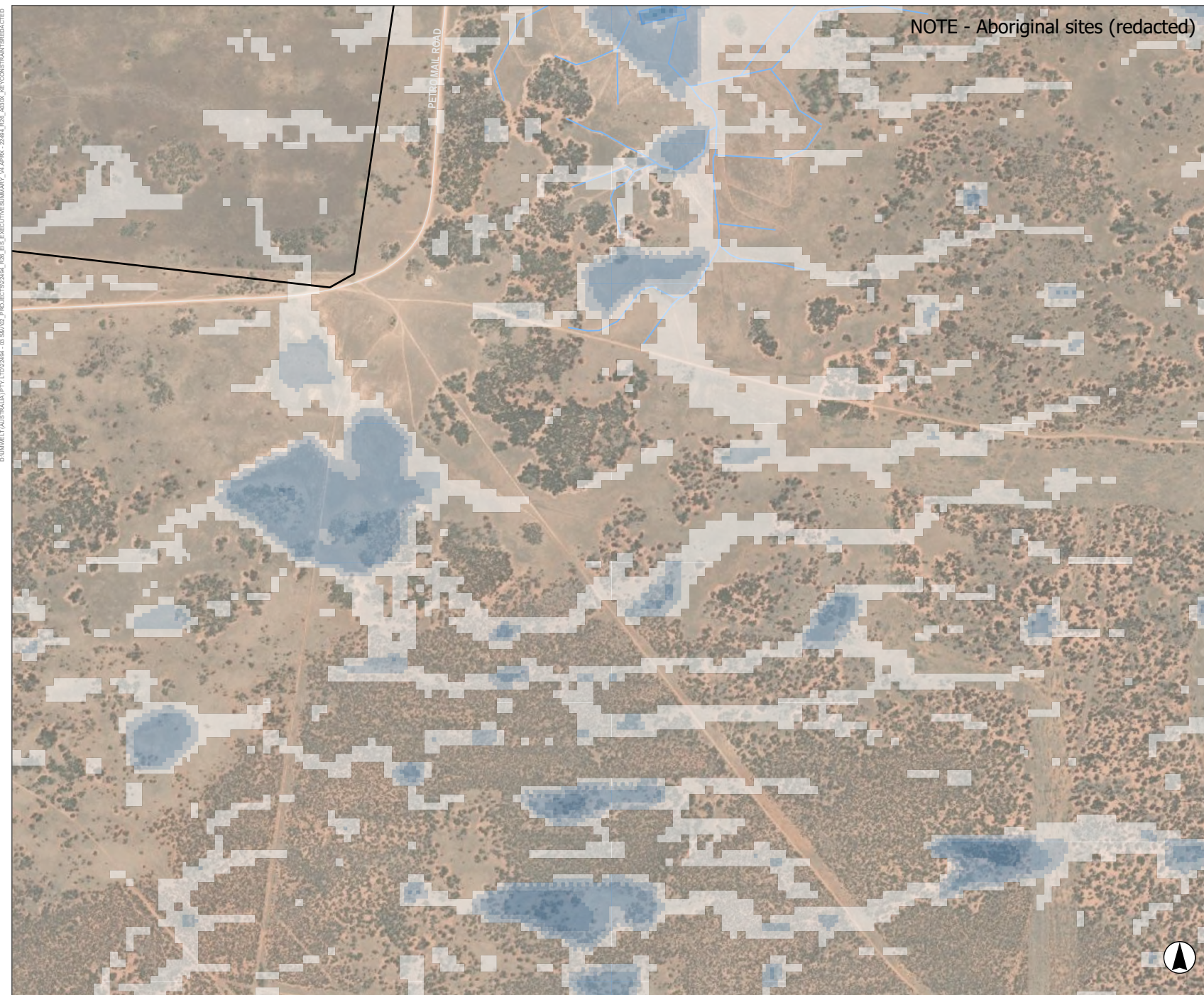
1% AEP Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6



Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.09

Key Constraints Redacted

Legend

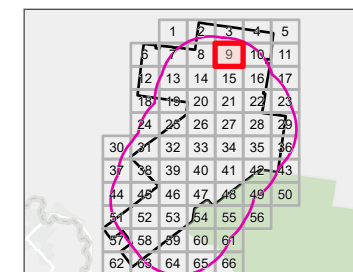
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Nearby Projects

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- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6

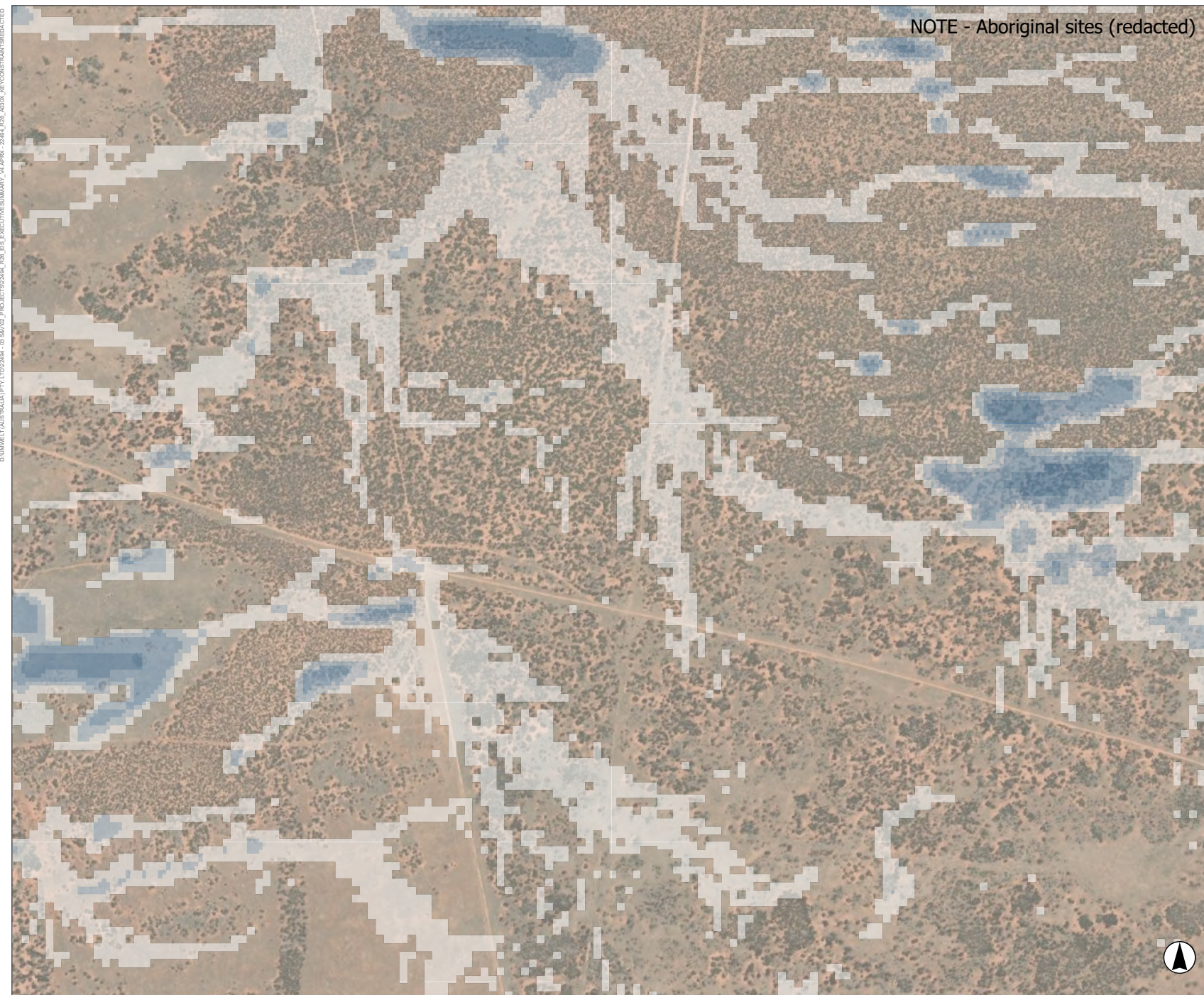


0 440 880
Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



A3.10

Key Constraints Redacted

Legend

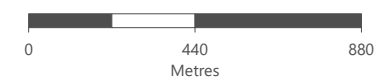
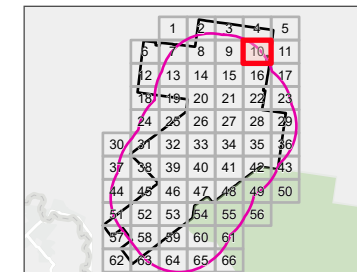
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- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

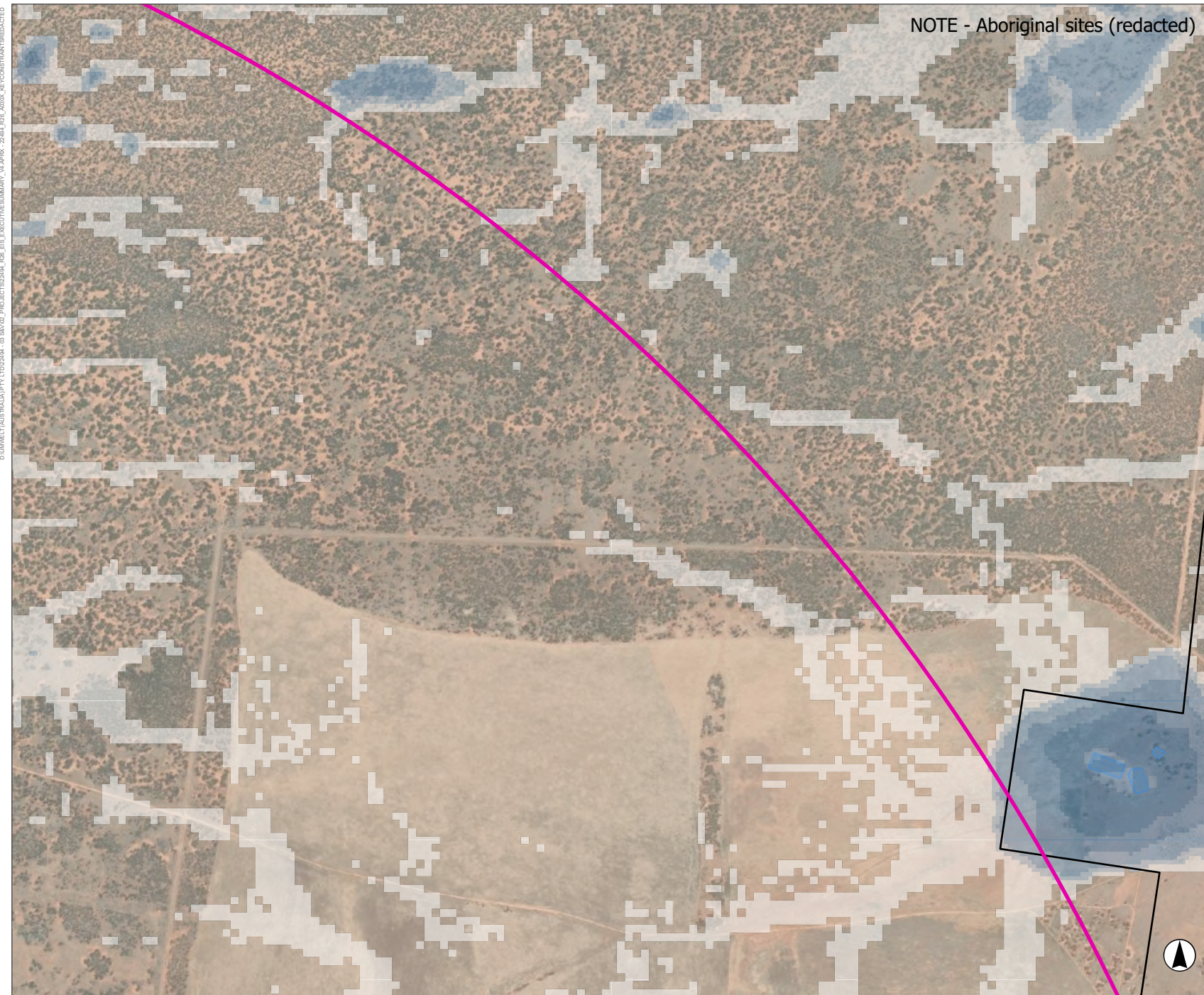
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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |

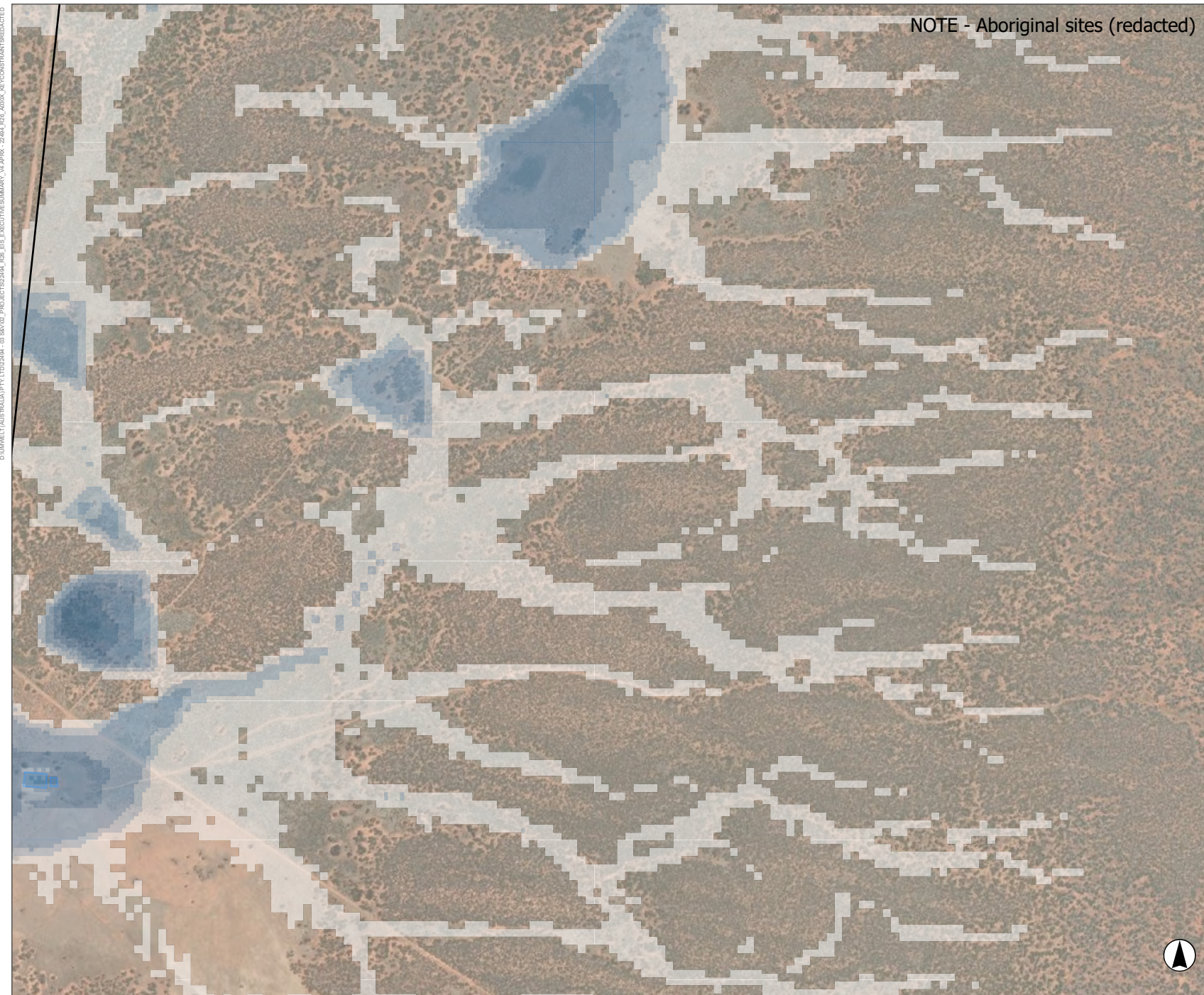


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NOTE - Aboriginal sites (redacted)





NOTE - Aboriginal sites (redacted)

A3.11 Key Constraints Redacted

Legend

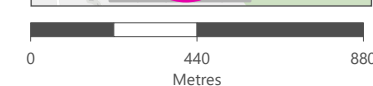
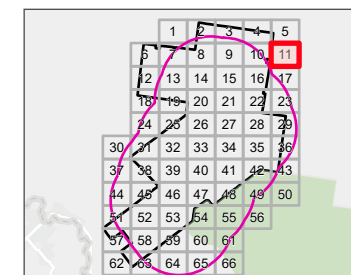
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Nearby Projects

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- Wind Farm Project
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- Buronga Landfill Expansion

1% AEP Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6



Scale 1:20,000 at A4
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A3.12

Key Constraints Redacted

Legend

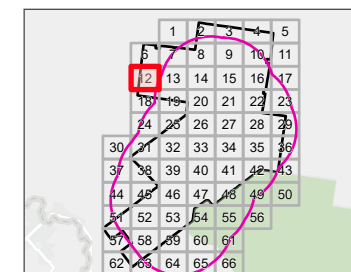
- Project Boundary
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Nearby Projects

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- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



0 440 880
Metres

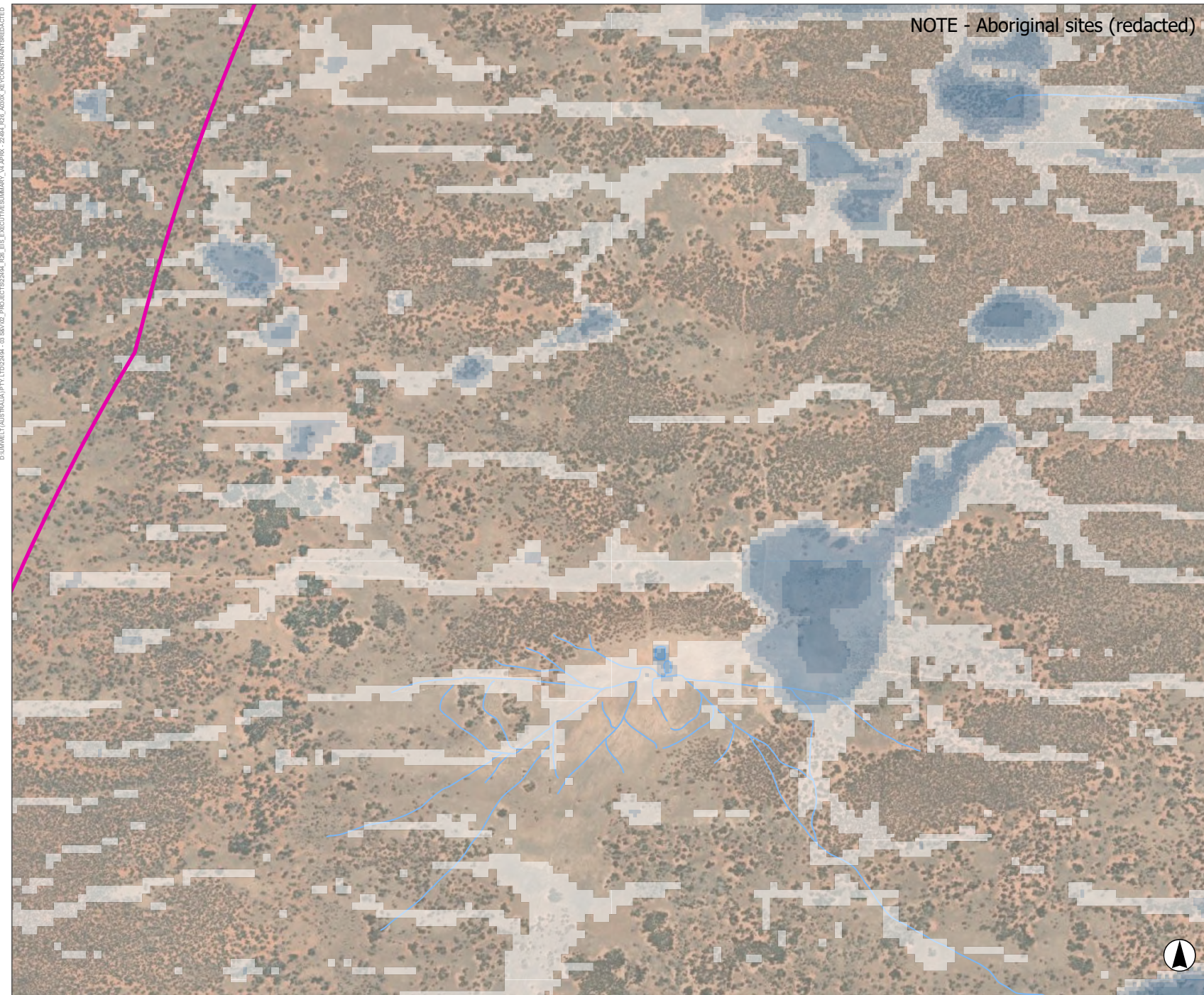
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NOTE - Aboriginal sites (redacted)

WAMBERA ROAD





NOTE - Aboriginal sites (redacted)

A3.13 Key Constraints Redacted

Legend

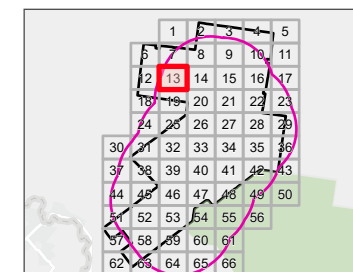
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Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



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Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)

A3.14 Key Constraints Redacted

Legend

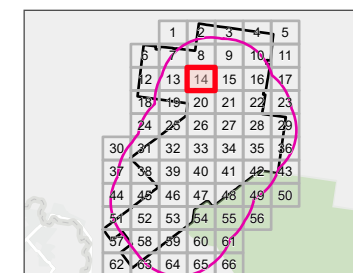
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- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

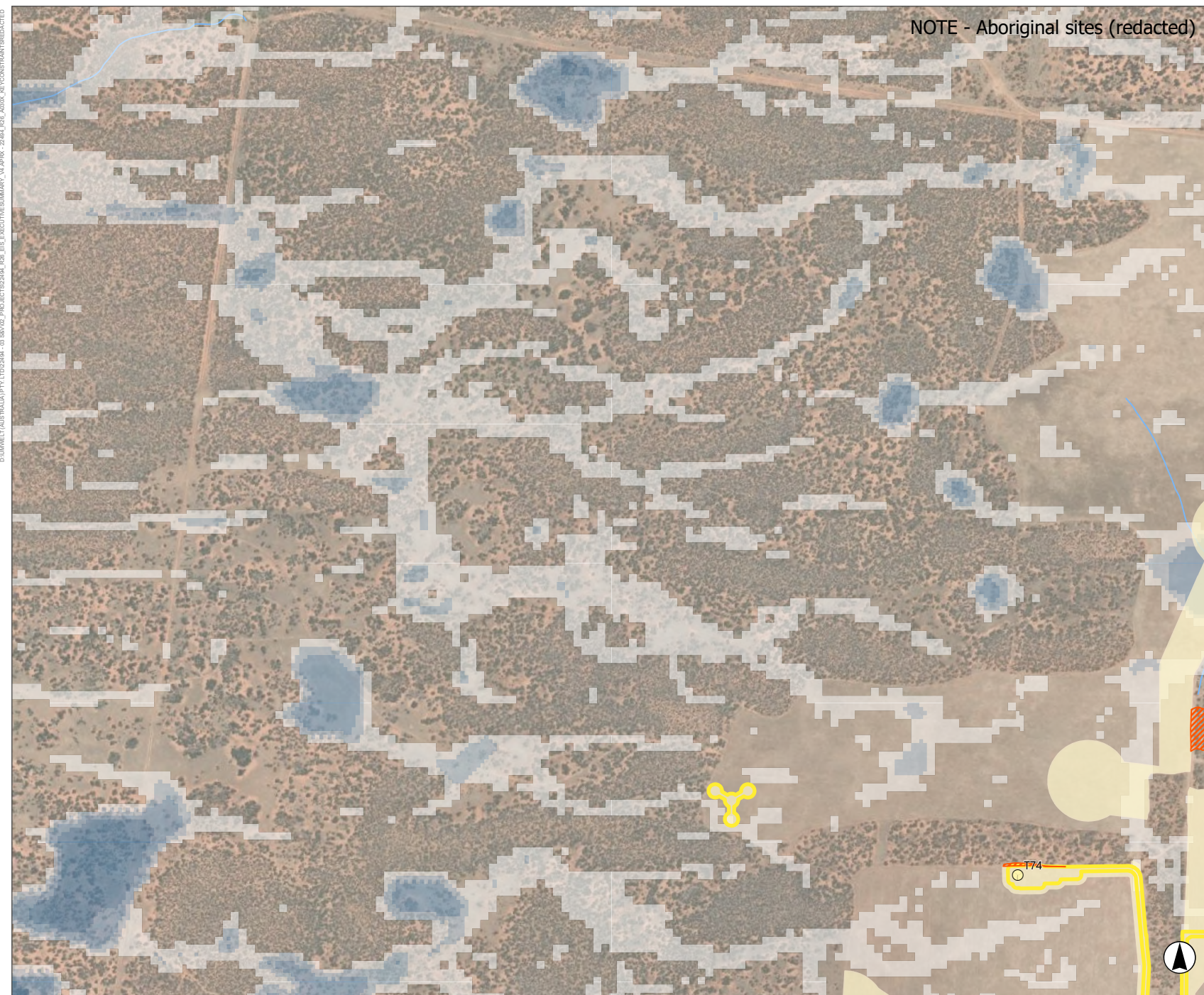
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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



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Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.15

Key Constraints Redacted

Legend

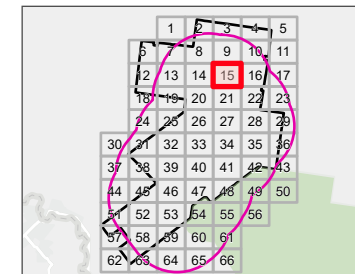
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Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

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|----|----|
| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



0 440 880
Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



A3.16

Key Constraints Redacted

Legend

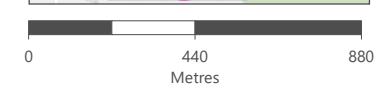
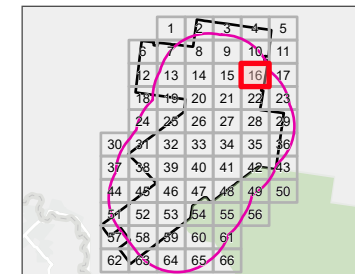
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1% AEP Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6



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GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



A3.17

Key Constraints Redacted

Legend

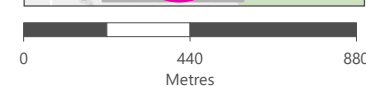
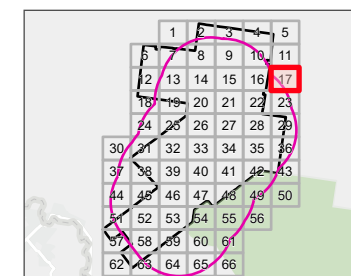
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Nearby Projects

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- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

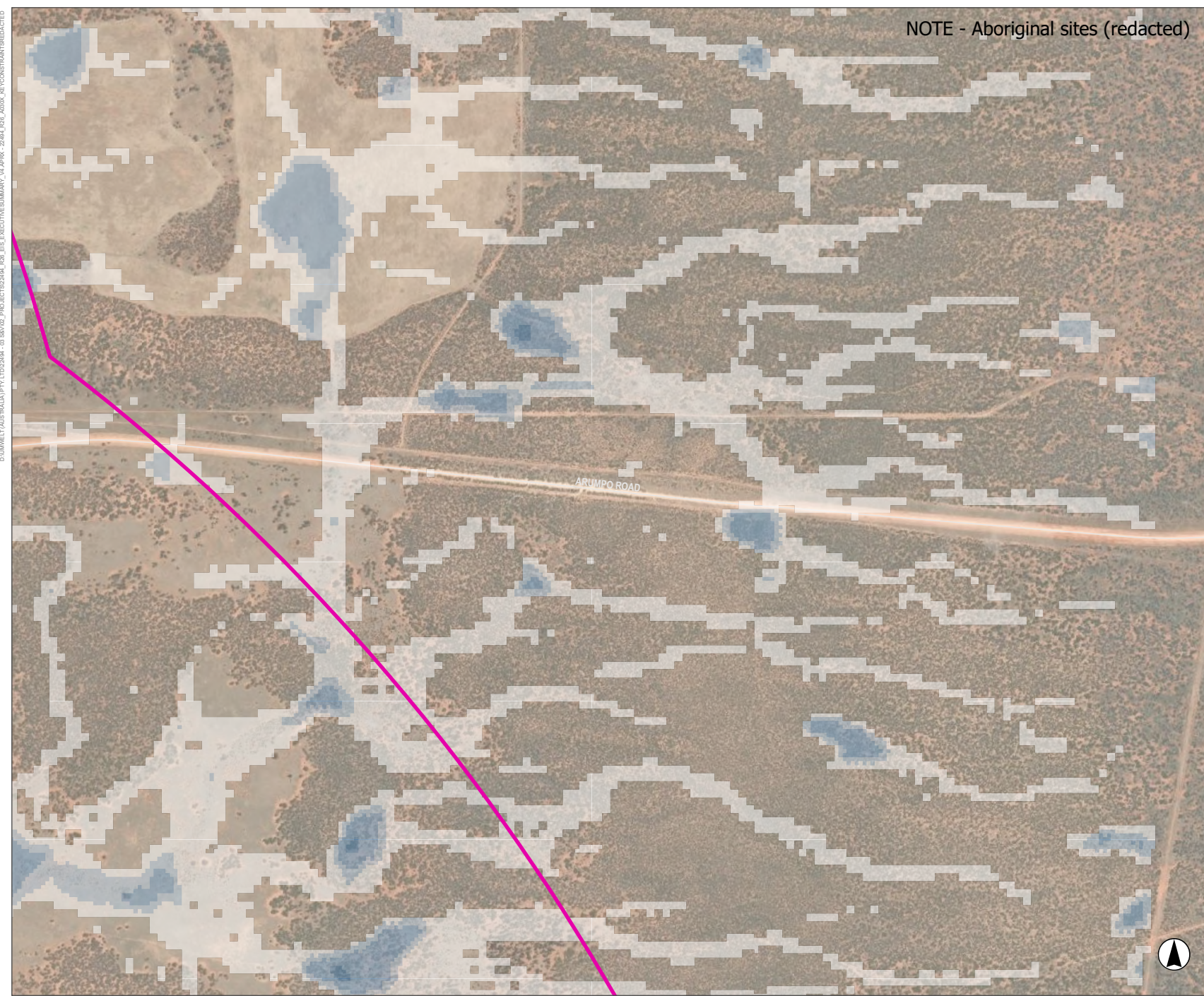
- H1
- H2
- H3
- H4
- H5
- H6



Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



A3.18

Key Constraints Redacted

Legend

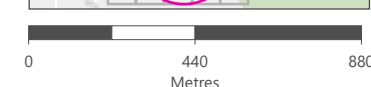
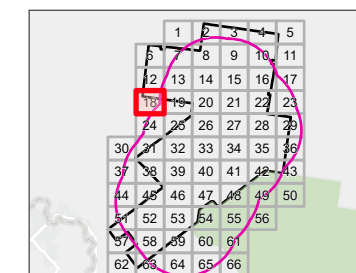
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Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

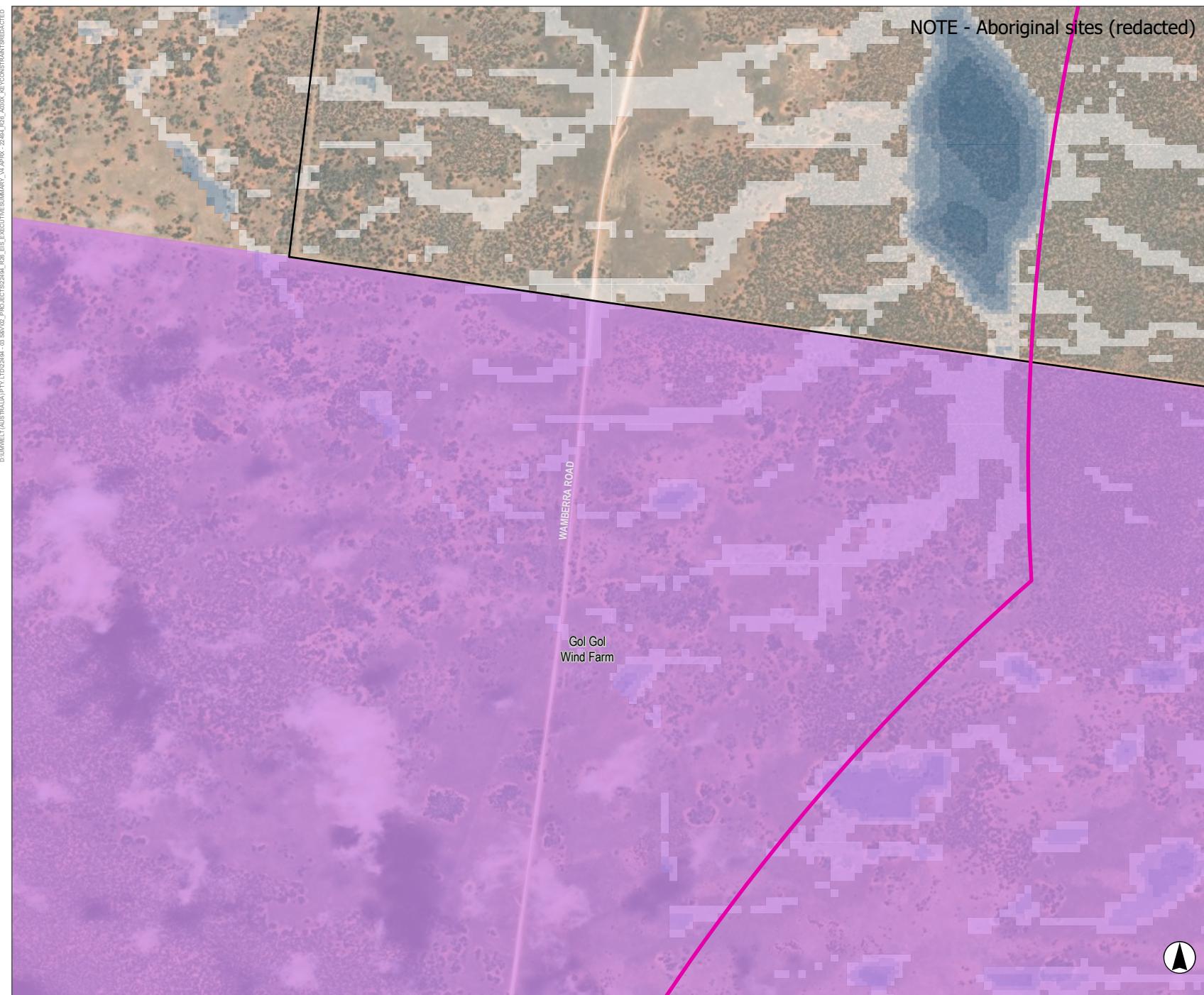
1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.19

Key Constraints Redacted

Legend

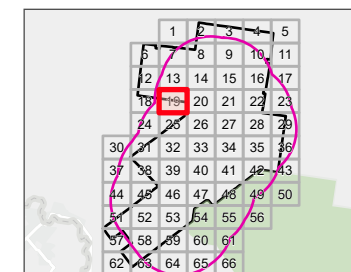
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Nearby Projects

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- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

- | | |
|----|----|
| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



0 440 880
Metres

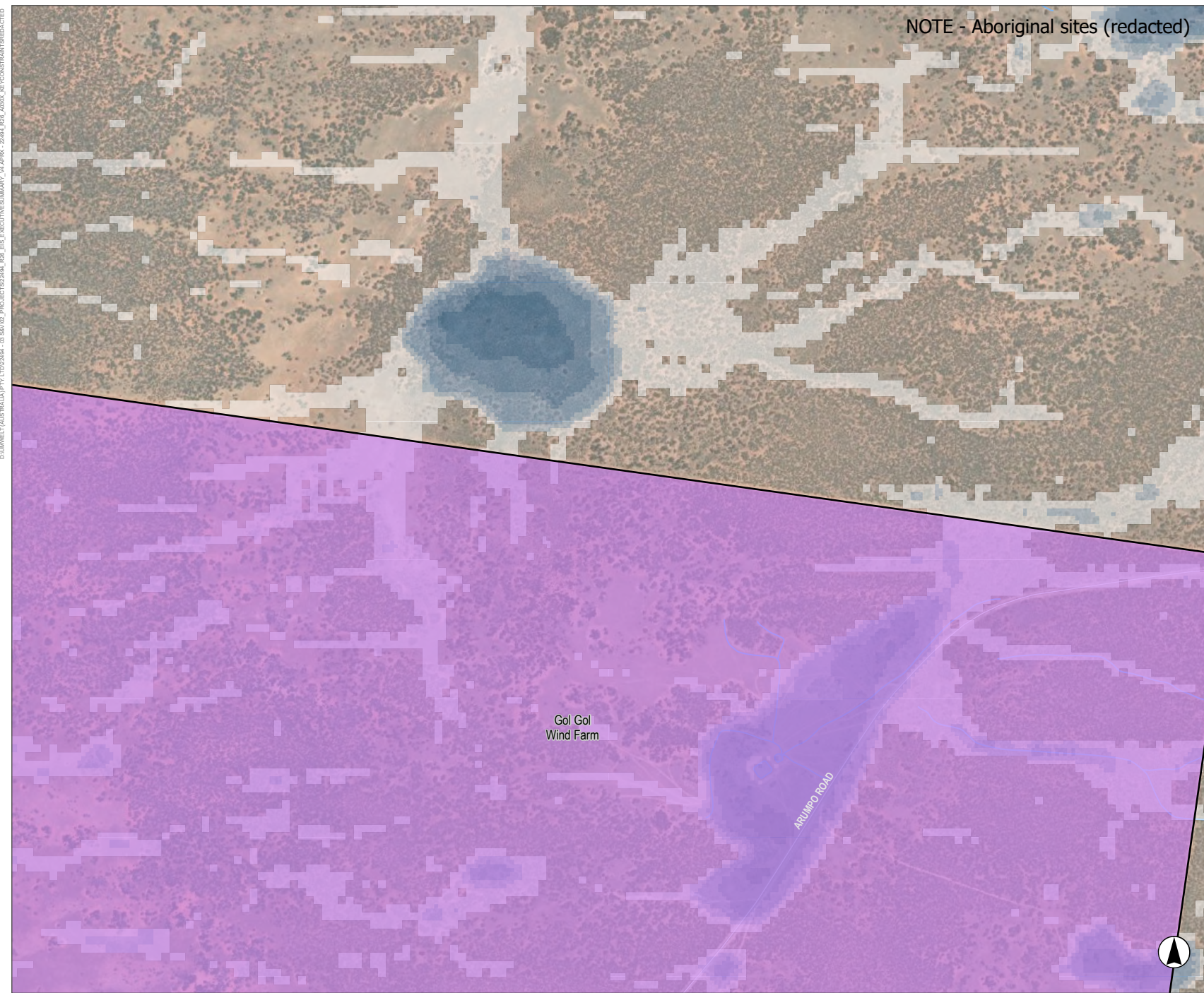
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NOTE - Aboriginal sites (redacted)

Gol Gol Wind Farm

AKUMPO ROAD



A3.20

Key Constraints Redacted

Legend

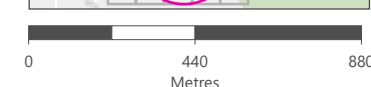
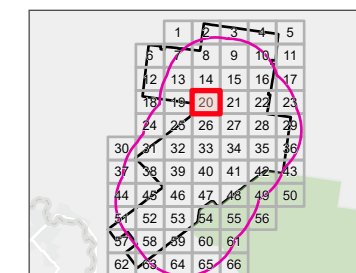
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- Watercourse

Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
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- Wind Farm Project

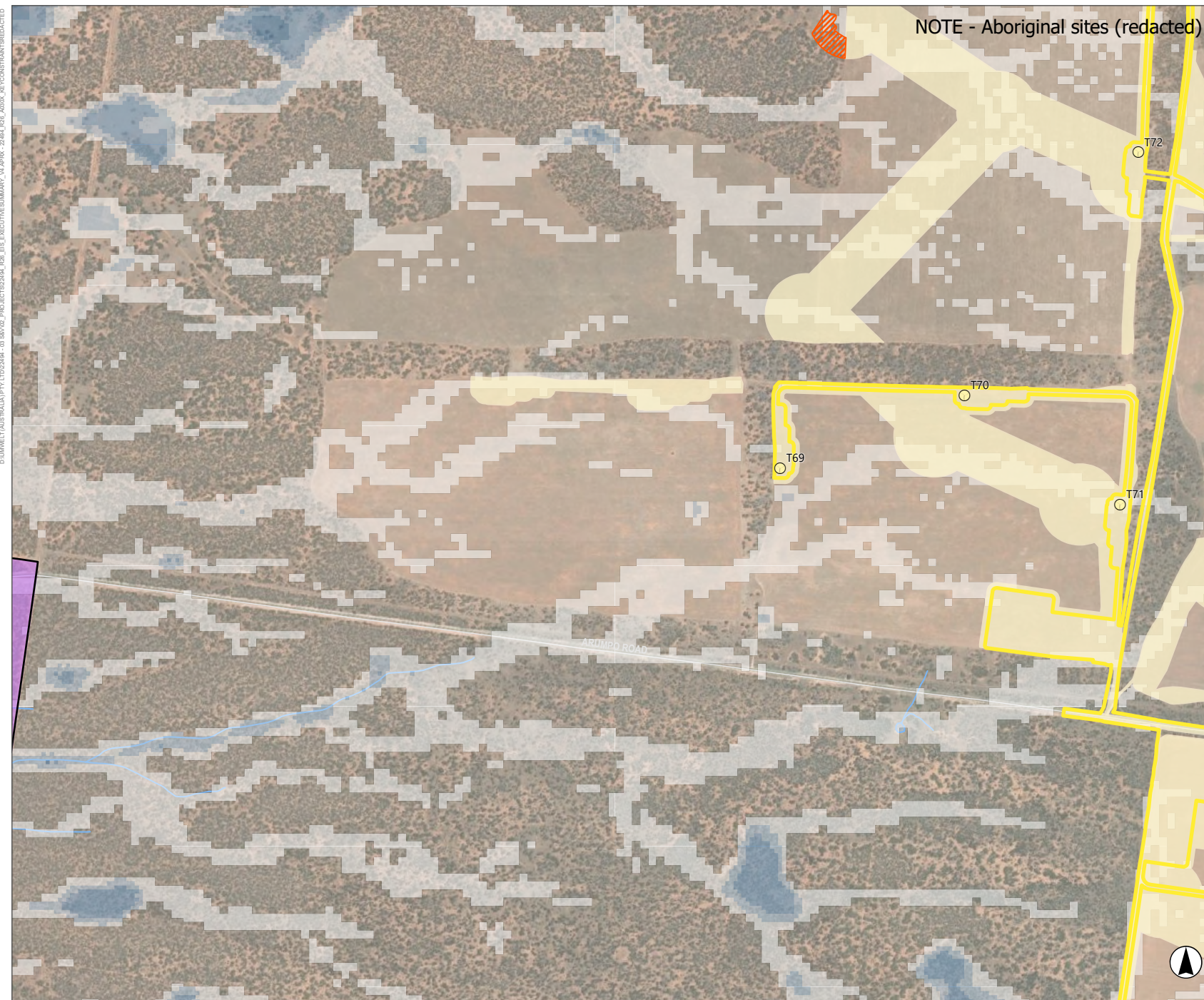
1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.21

Key Constraints Redacted

Legend

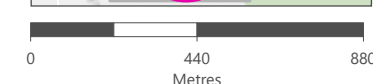
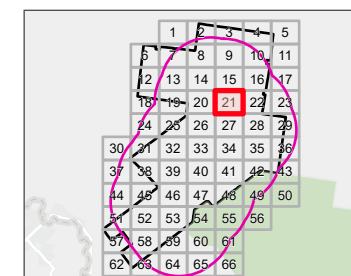
- Project Boundary
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1% AEP Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6



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GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



A3.22

Key Constraints Redacted

Legend

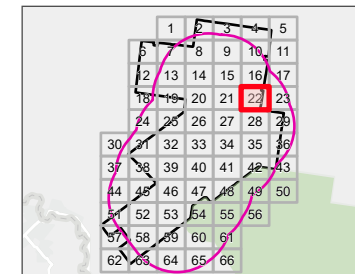
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1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |

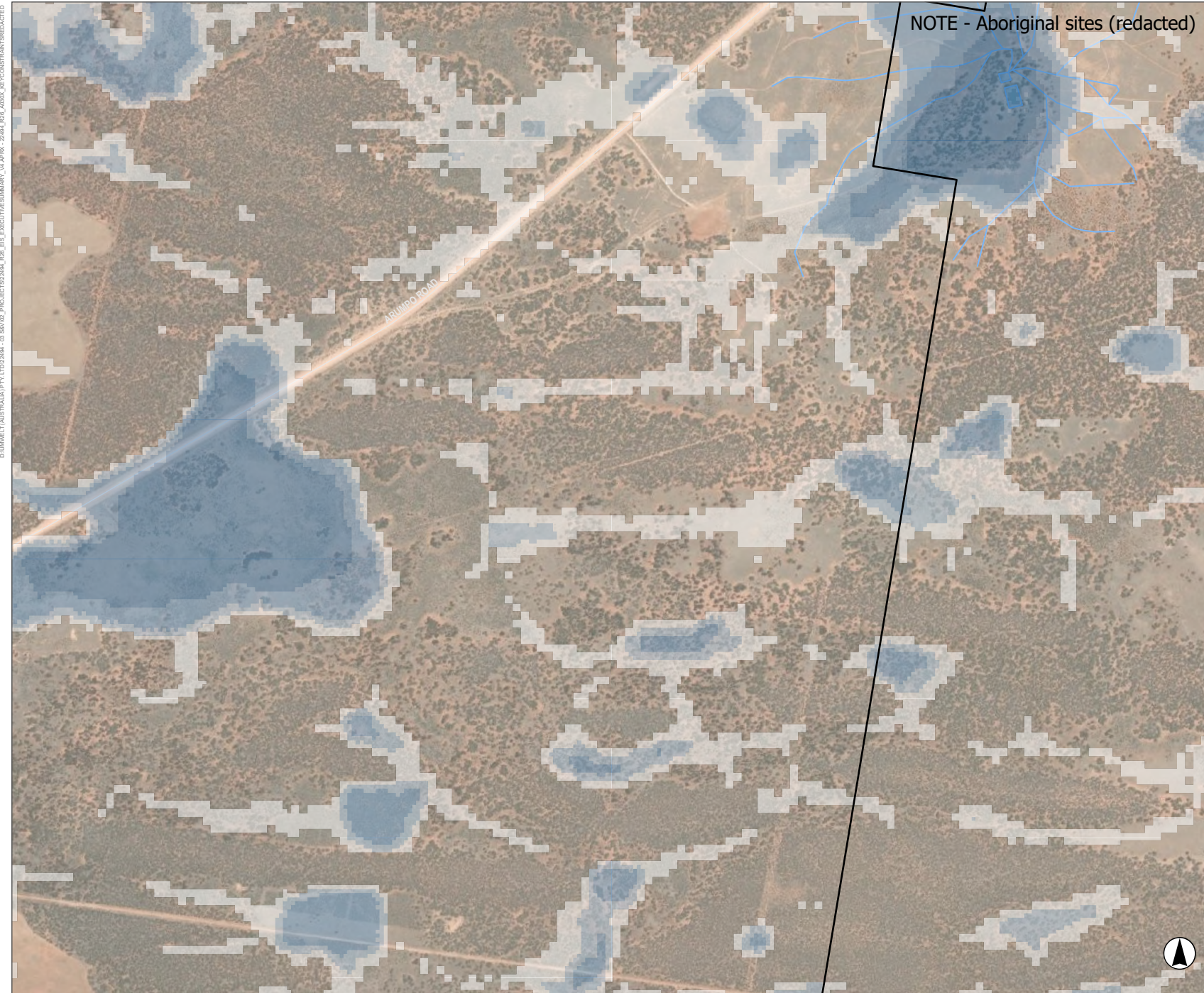


0 440 880
Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



A3.23

Key Constraints Redacted

Legend

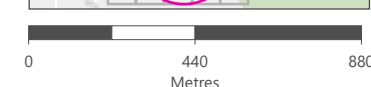
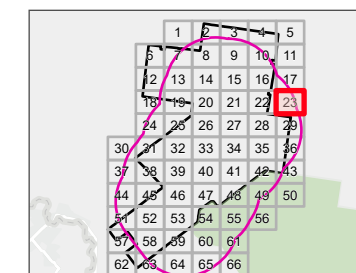
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1% AEP Flood Hazard

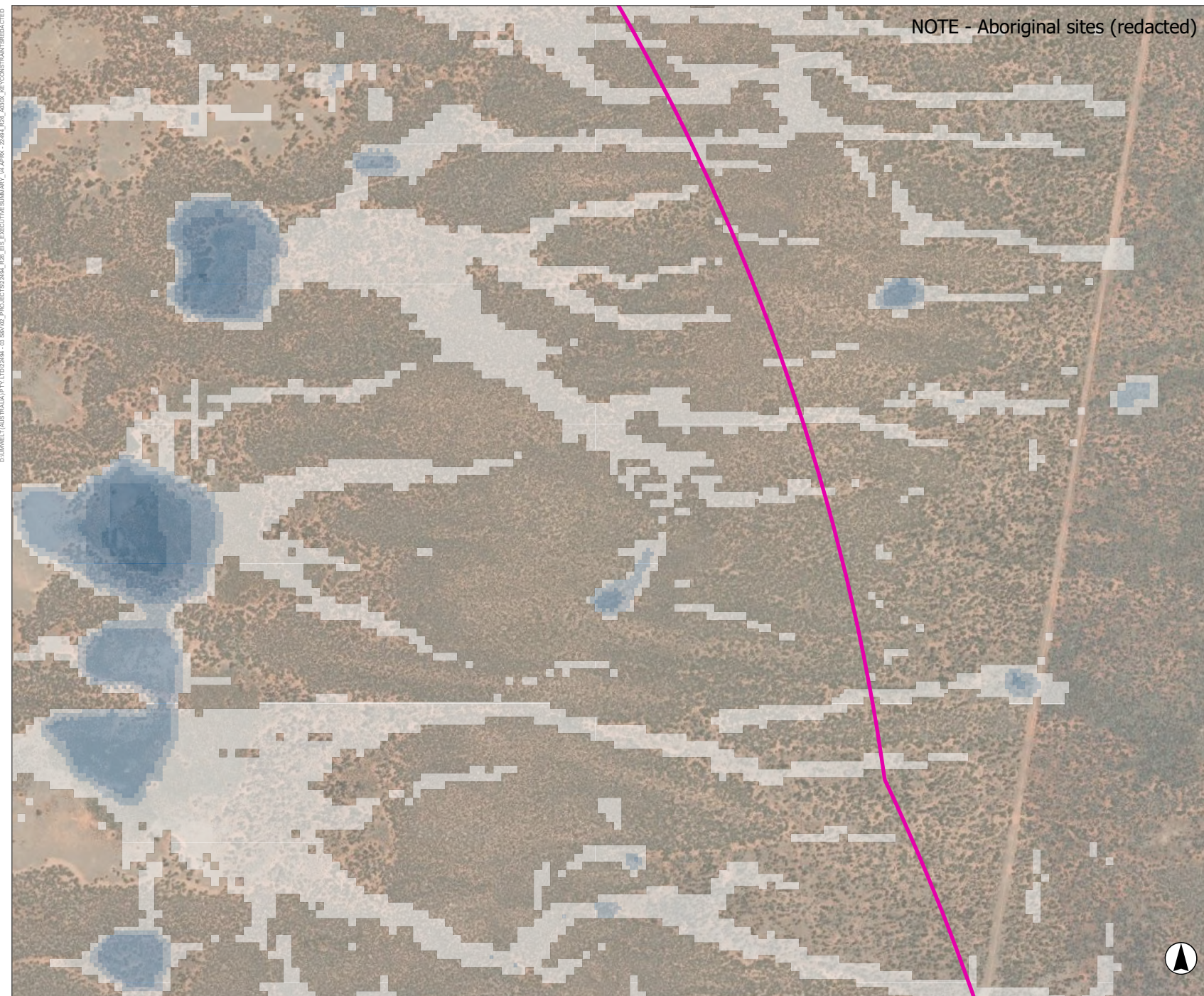
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| H3 | H6 |



Scale 1:20,000 at A4
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NOTE - Aboriginal sites (redacted)



A3.24

Key Constraints Redacted

Legend

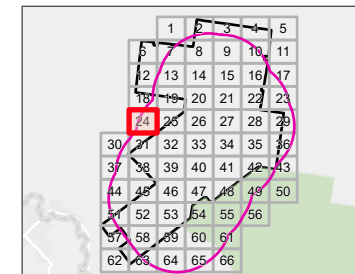
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1% AEP Flood Hazard

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Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

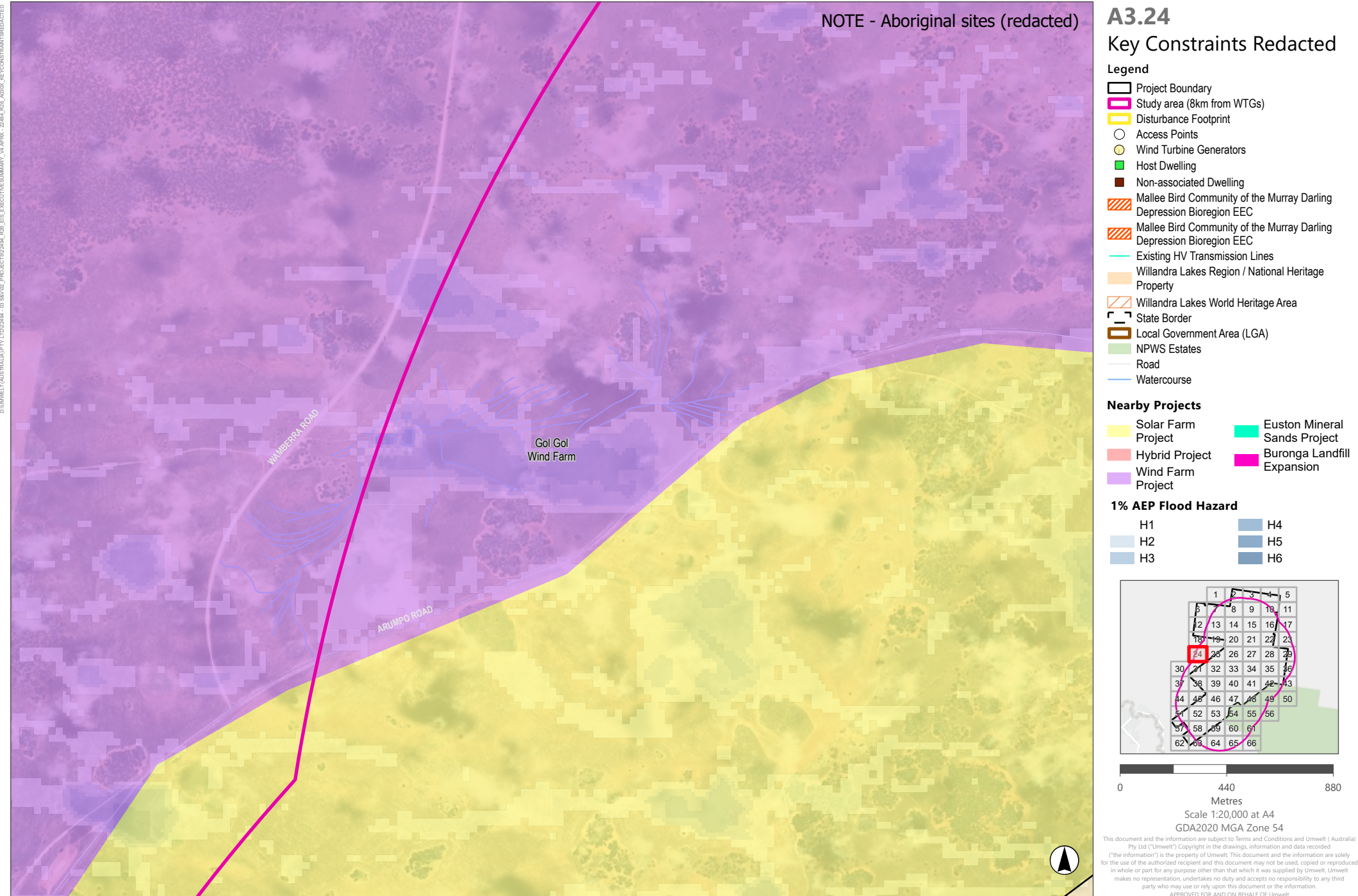
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NOTE - Aboriginal sites (redacted)

Gol Gol Wind Farm

WAMBERRA ROAD

ARUMPO ROAD



A3.25

Key Constraints Redacted

Legend

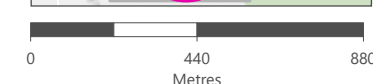
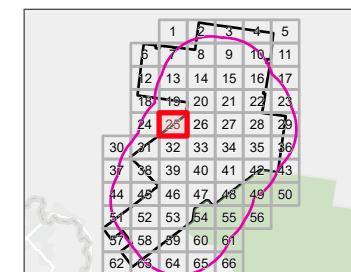
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1% AEP Flood Hazard

- H1
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- H3
- H4
- H5
- H6



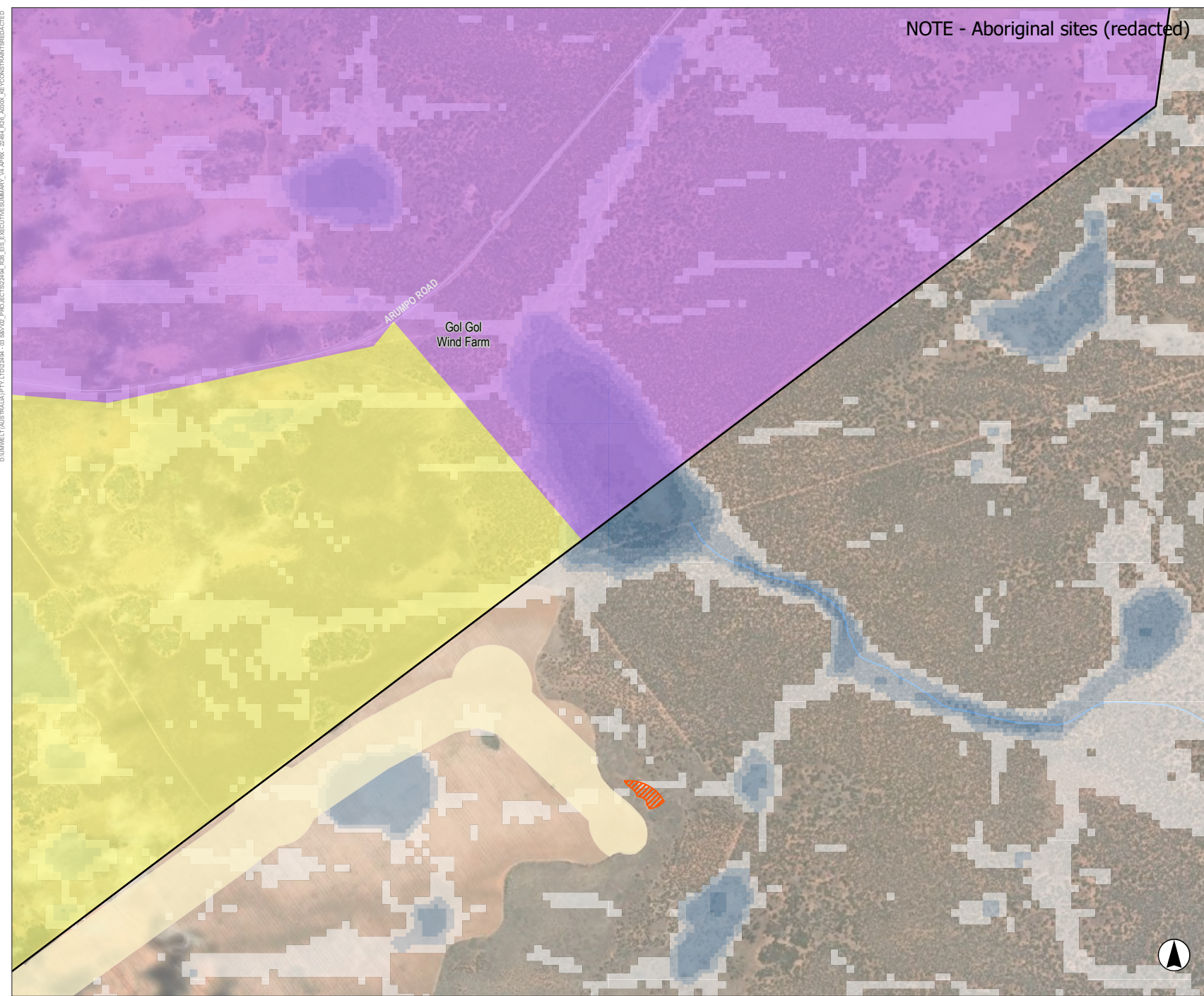
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NOTE - Aboriginal sites (redacted)

ARUMPO ROAD

Gol Gol Wind Farm



A3.27

Key Constraints Redacted

Legend

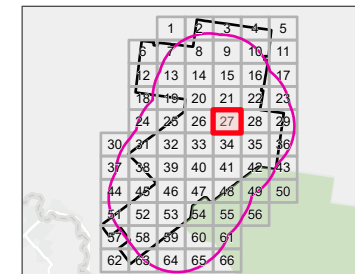
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1% AEP Flood Hazard

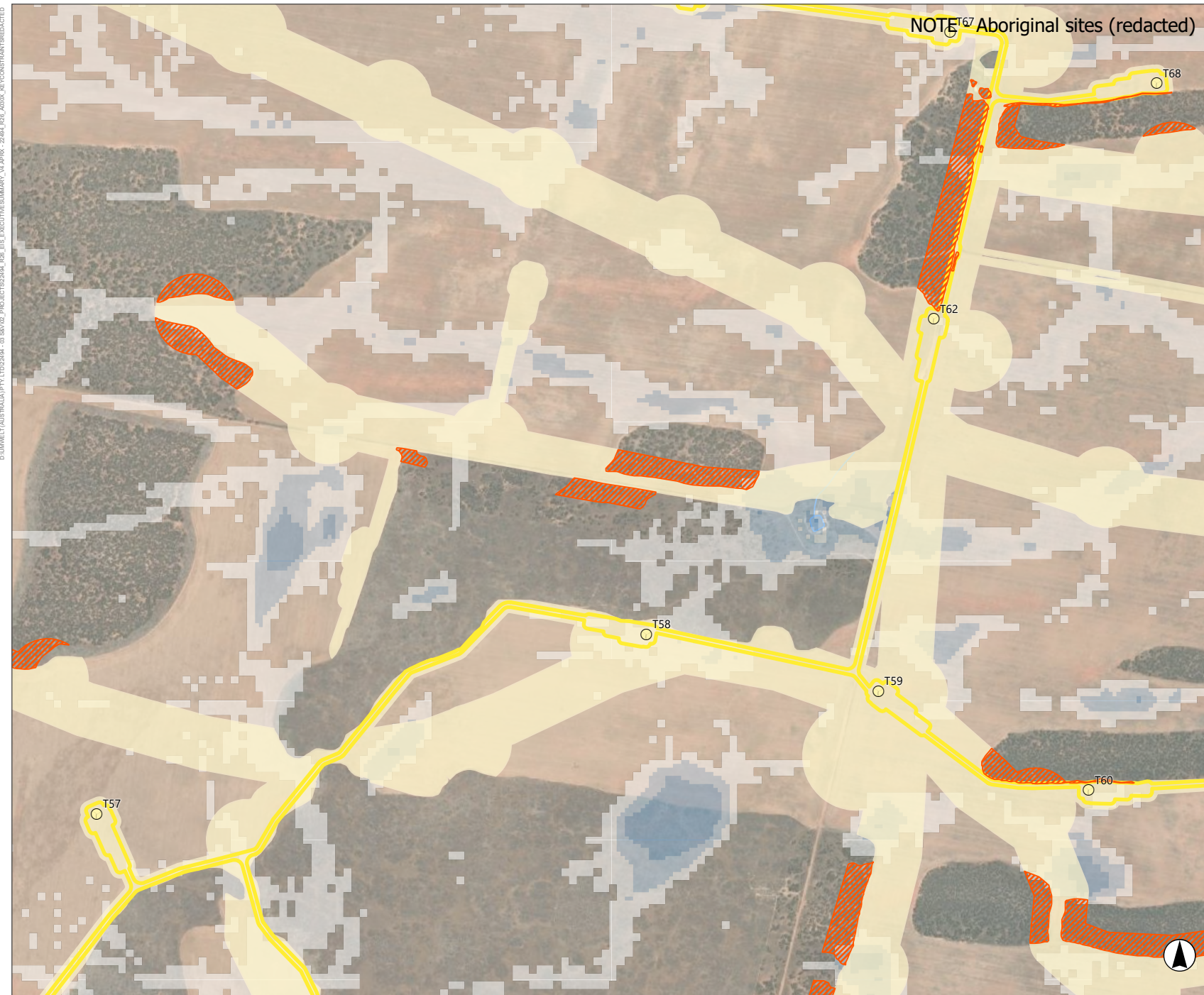
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| H3 | H6 |



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Metres

Scale 1:20,000 at A4
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A3.28

Key Constraints Redacted

Legend

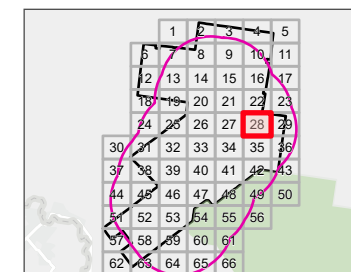
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1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



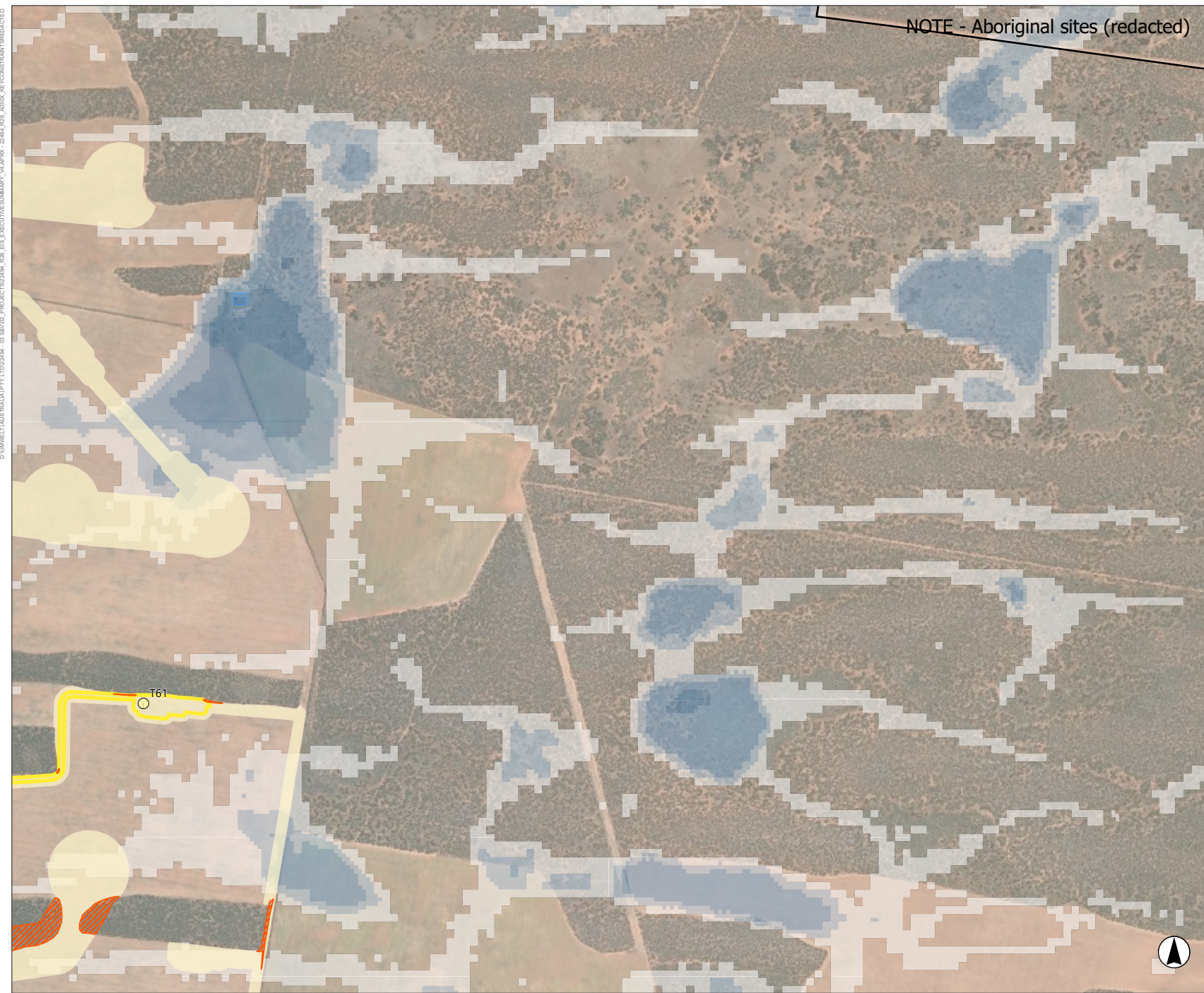
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NOTE - Aboriginal sites (redacted)

T61



A3.29

Key Constraints Redacted

Legend

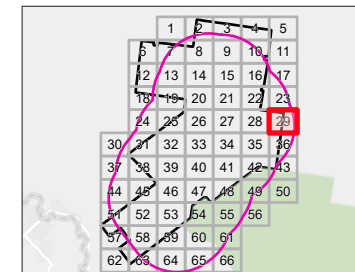
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1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |

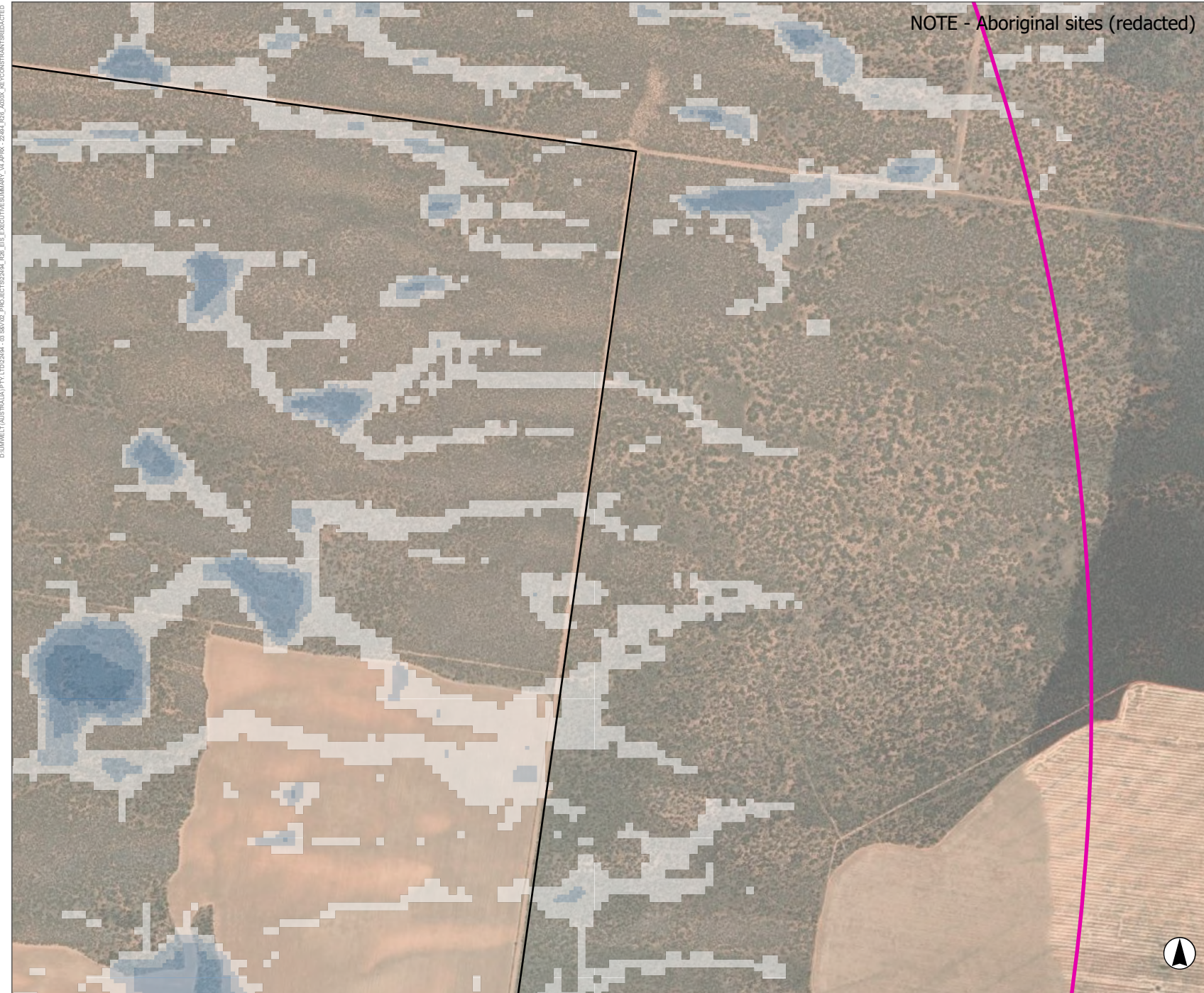


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Metres

Scale 1:20,000 at A4
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NOTE - Aboriginal sites (redacted)



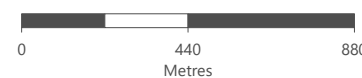
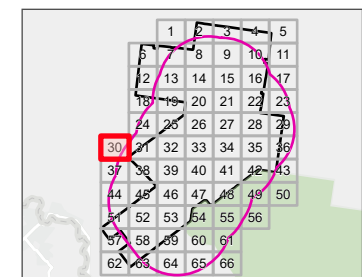
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A3.30

Key Constraints Redacted

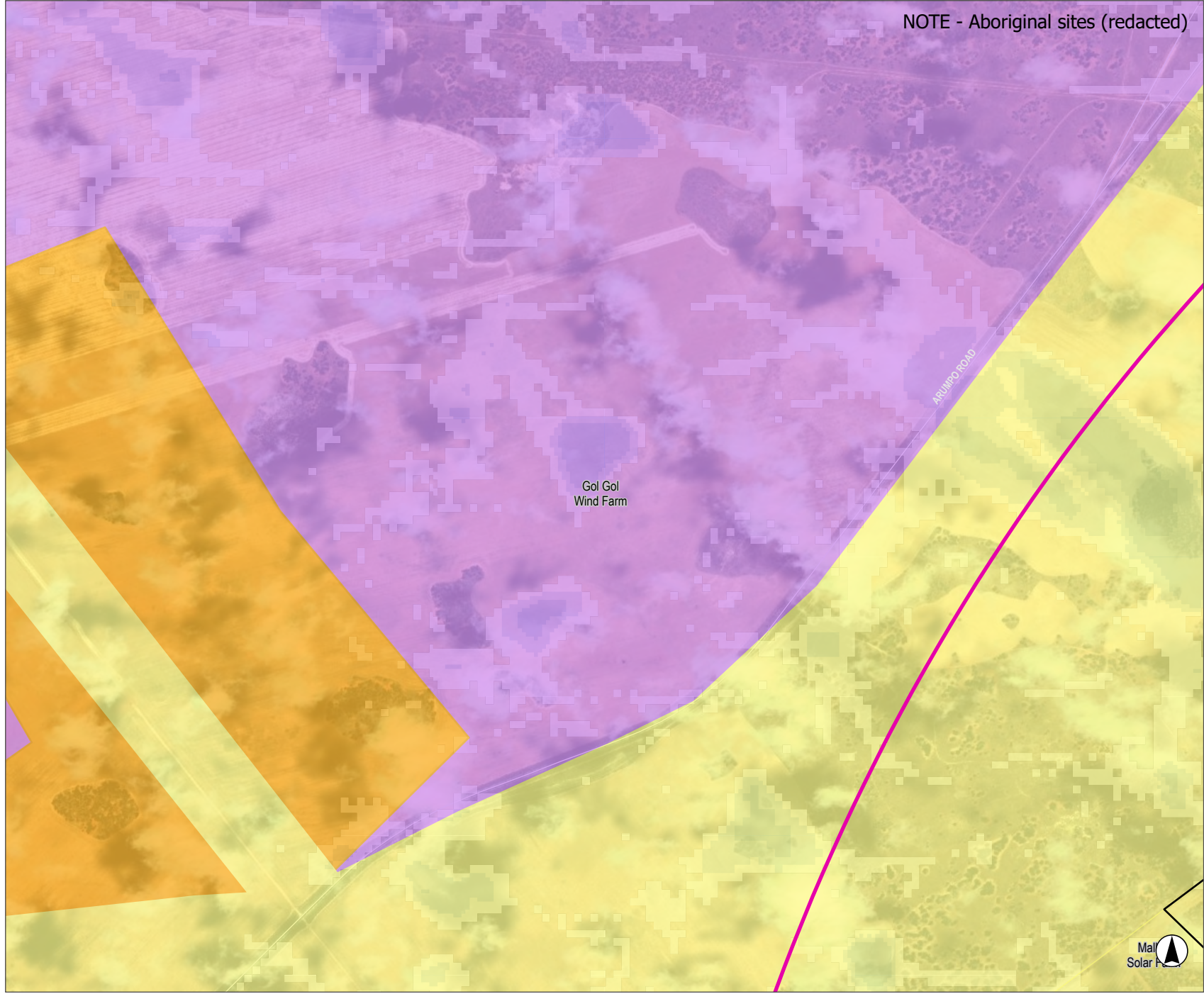
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- 1% AEP Flood Hazard**
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| H1 | H4 |
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NOTE - Aboriginal sites (redacted)



A3.31

Key Constraints Redacted

Legend

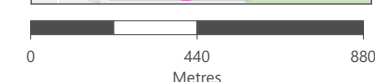
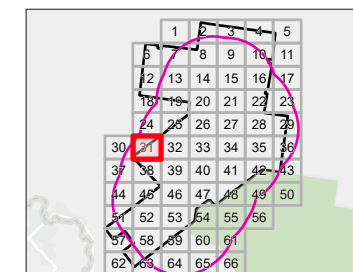
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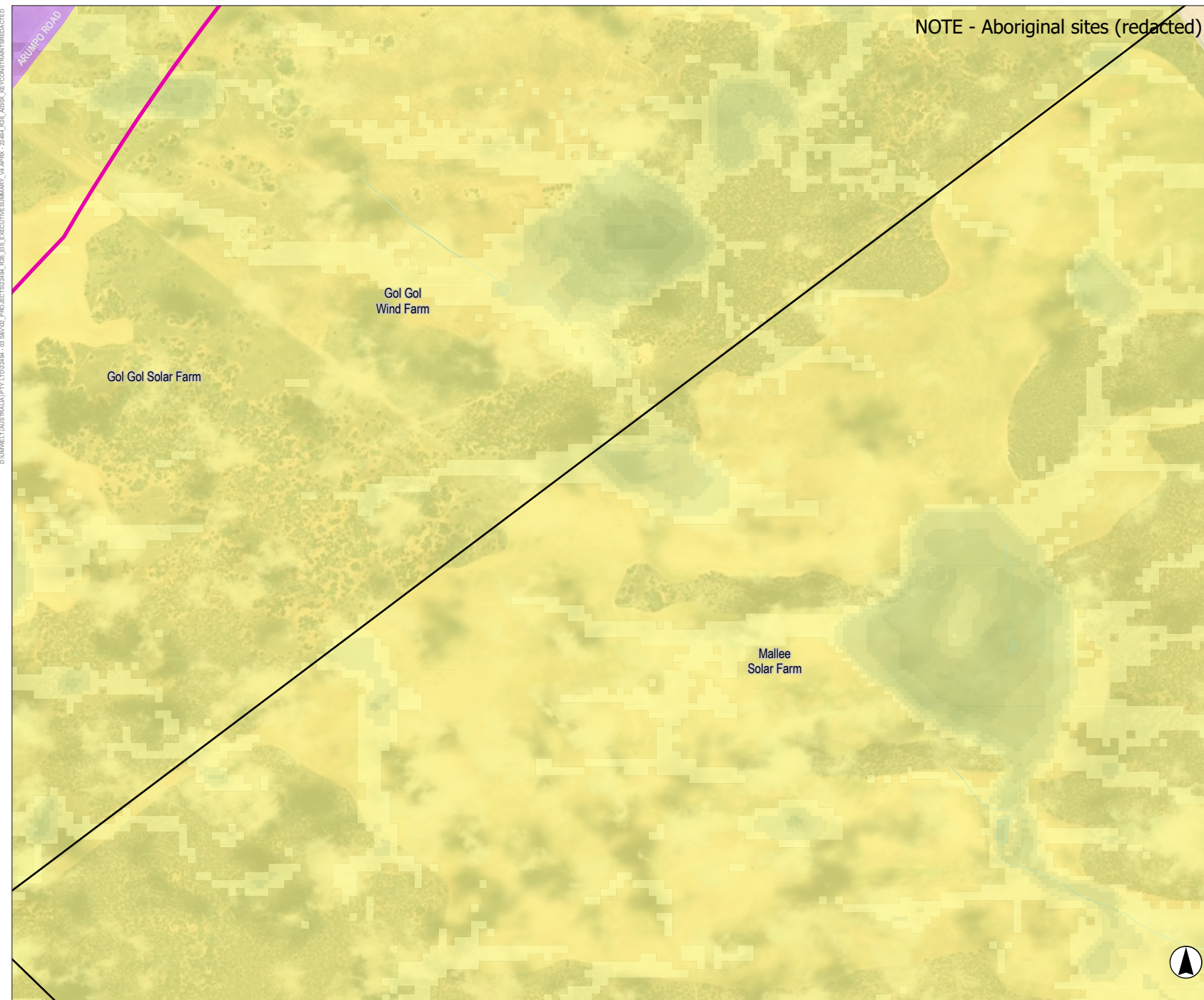
1% AEP Flood Hazard

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| H1 | H4 |
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A3.32

Key Constraints Redacted

Legend

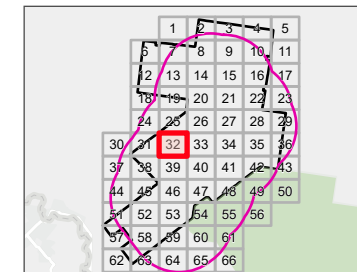
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1% AEP Flood Hazard

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| H1 | H4 |
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Metres

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A3.33

Key Constraints Redacted

Legend

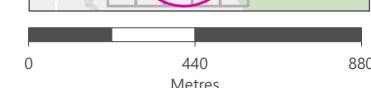
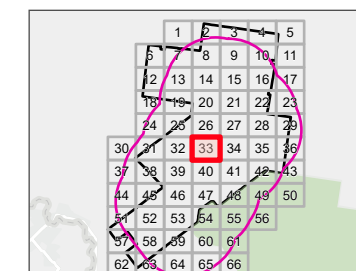
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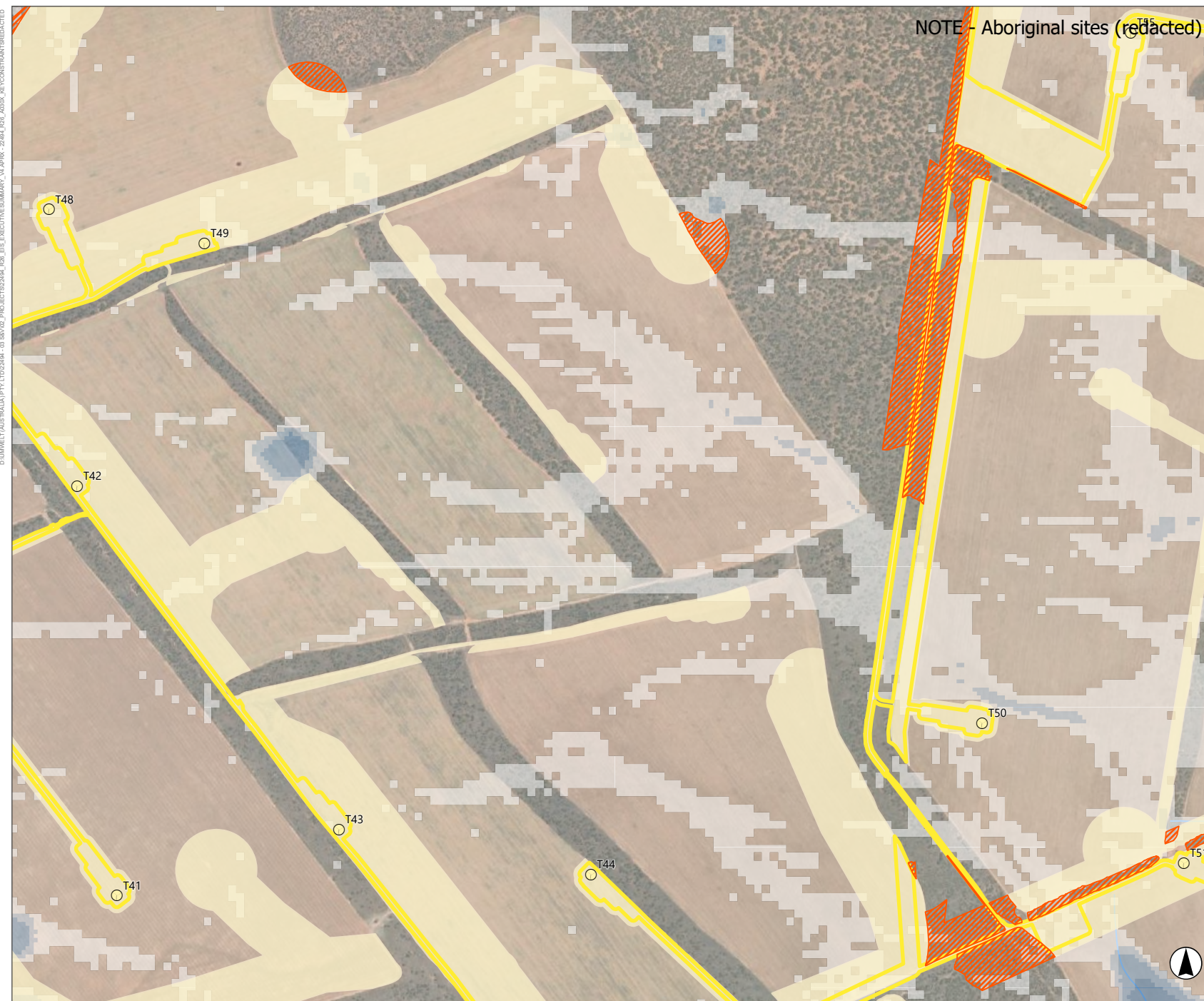
1% AEP Flood Hazard

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A3.34

Key Constraints Redacted

Legend

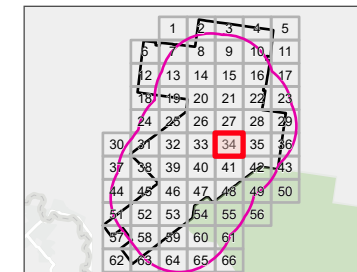
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- Mallee Bird Community of the Murray Darling Depression Bioregion EEC
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- Watercourse

Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

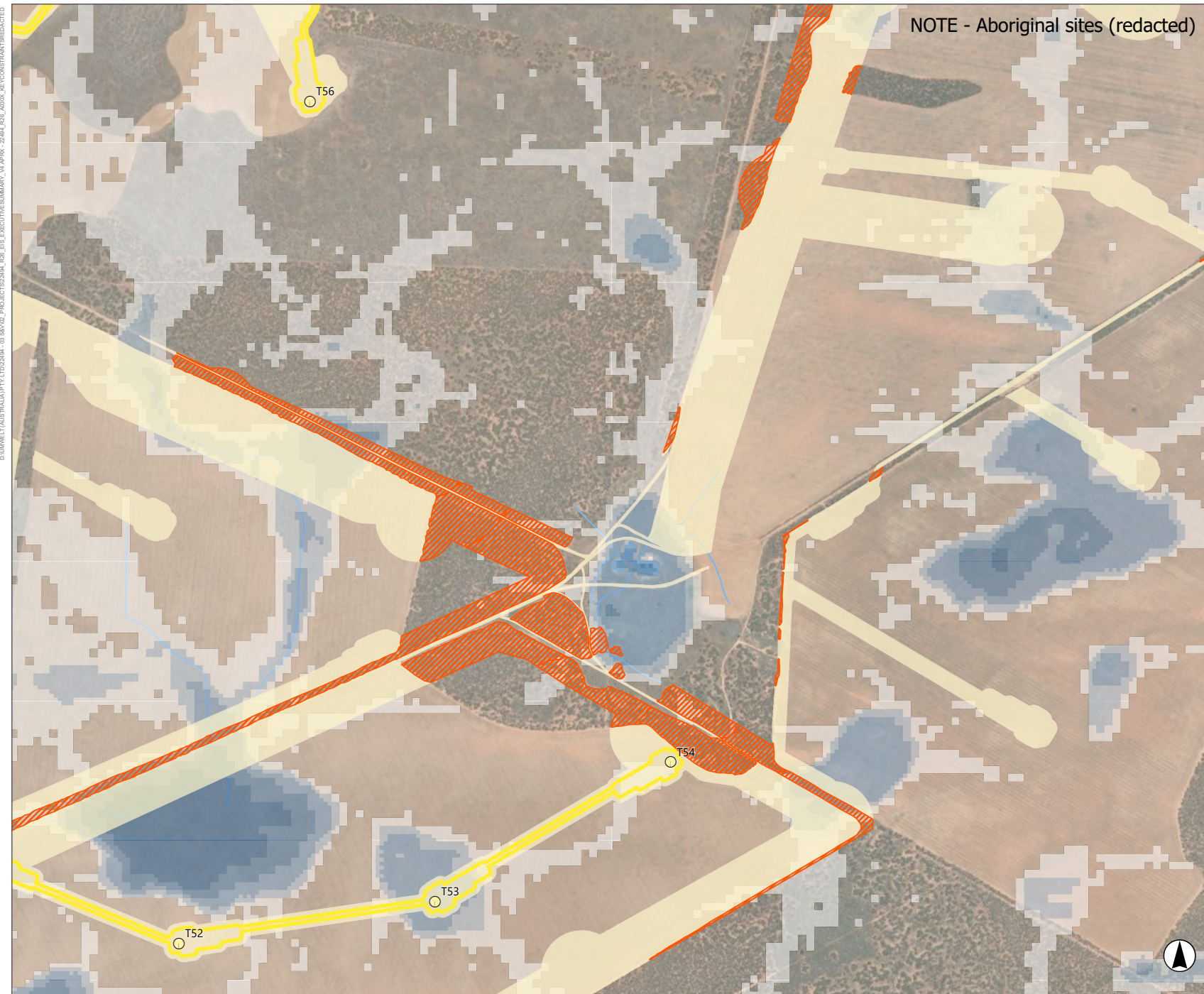
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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



0 440 880
Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.35

Key Constraints Redacted

Legend

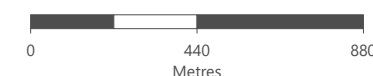
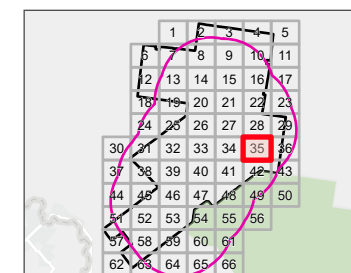
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Nearby Projects

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- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

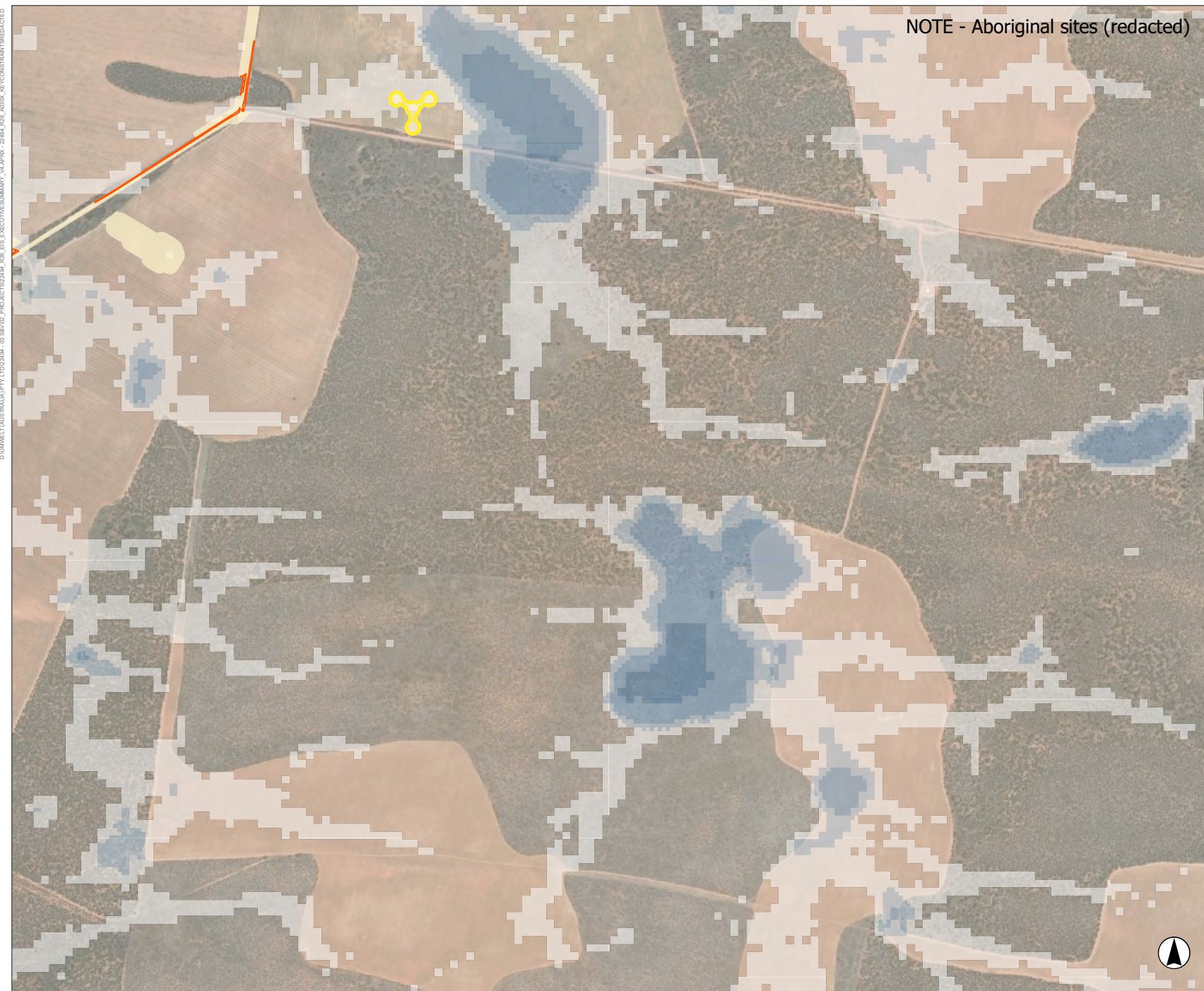
- H1
- H2
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- H4
- H5
- H6

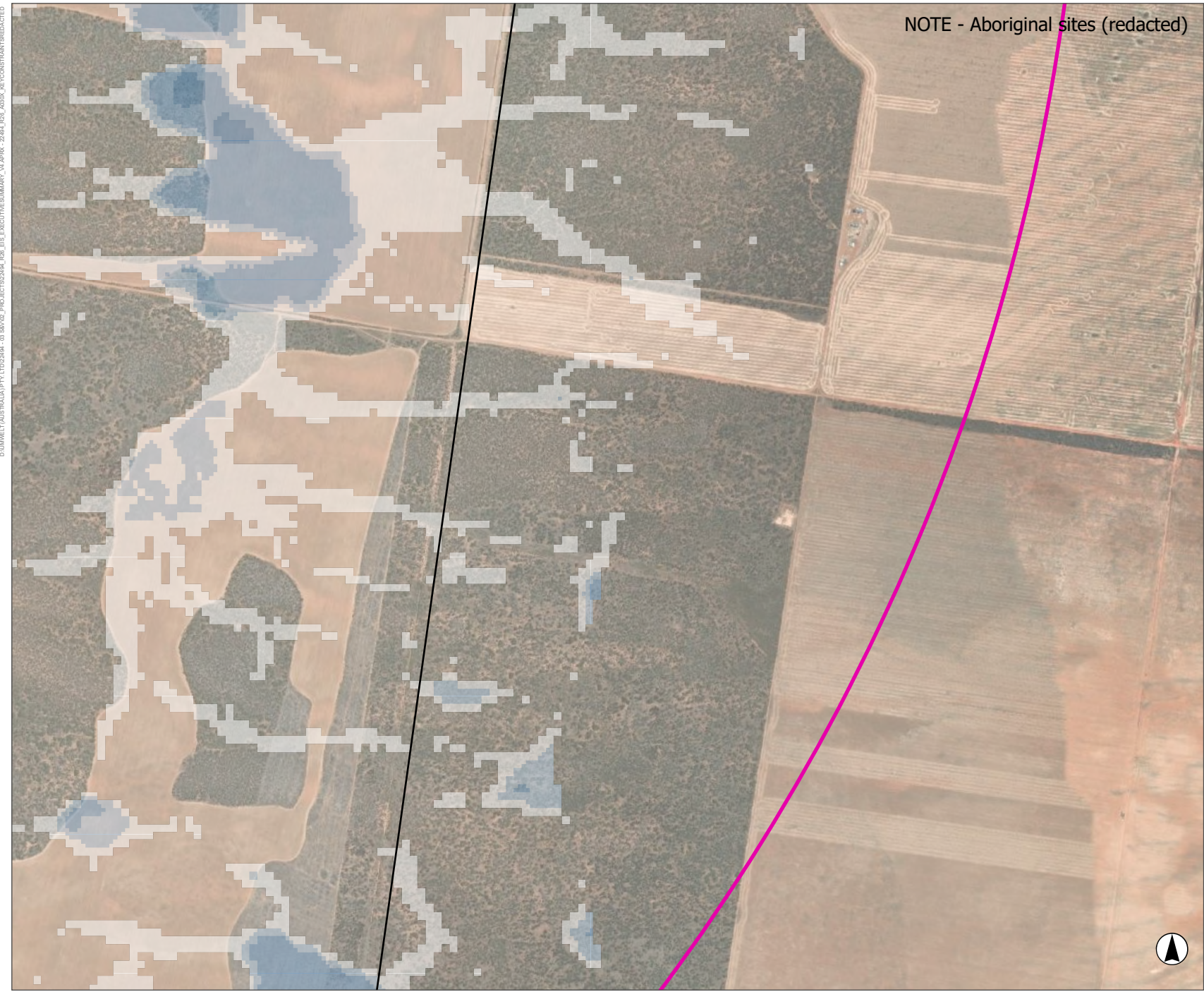


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NOTE - Aboriginal sites (redacted)





NOTE - Aboriginal sites (redacted)

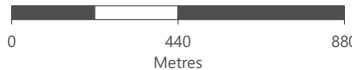
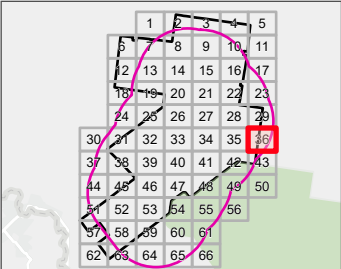
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Key Constraints Redacted

- Legend**
- Project Boundary
 - Study area (8km from WTGs)
 - Disturbance Footprint
 - Access Points
 - Wind Turbine Generators
 - Host Dwelling
 - Non-associated Dwelling
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- Nearby Projects**
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 - Buronga Landfill Expansion

- 1% AEP Flood Hazard**
- H1
 - H2
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 - H5
 - H6



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Legend

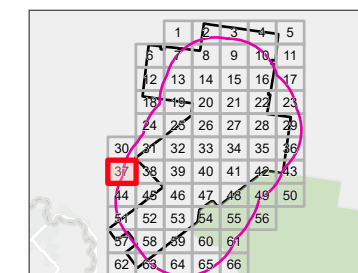
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-  Access Points
-  Wind Turbine Generators
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Nearby Projects

-  Solar Farm Project
 Hybrid Project
 Wind Farm Project
 Euston Mineral Sands Project
 Buronga Landfill Expansion

1% AEP Flood Hazard

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| | H3 | | H6 |



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NOTE - Aboriginal sites (redacted)

A3.38

Key Constraints Redacted

Legend

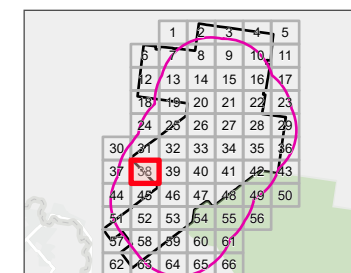
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1% AEP Flood Hazard

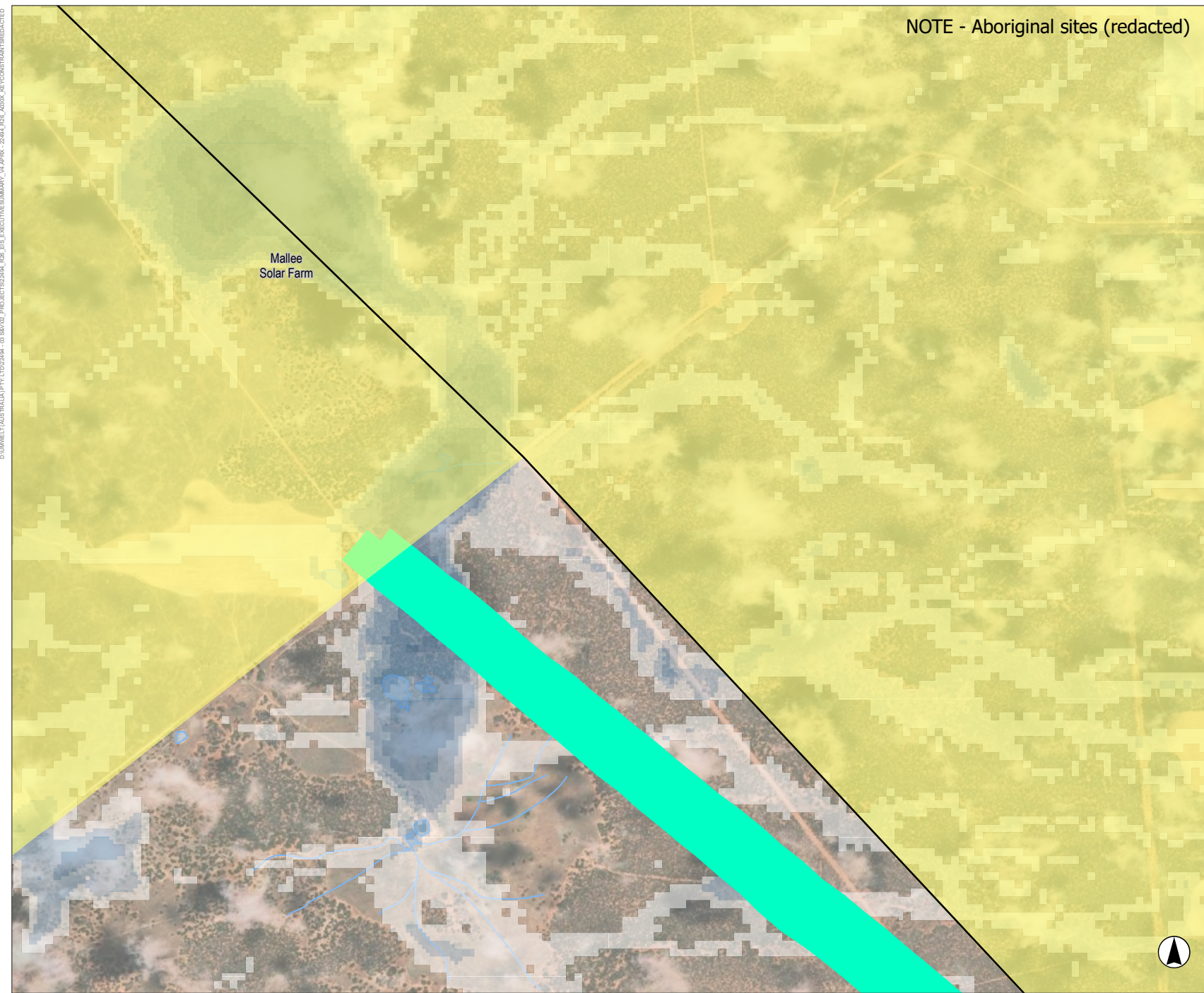
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- H2
- H3
- H4
- H5
- H6



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Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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A3.39

Key Constraints Redacted

Legend

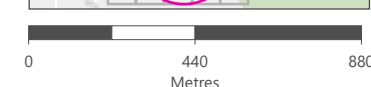
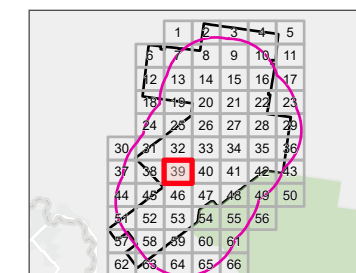
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1% AEP Flood Hazard

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| H2 | H5 |
| H3 | H6 |



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NOTE - Aboriginal sites (redacted)

Mallee Solar Farm

T26

T27

T24

T28

T18

T19

T29



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A3.40

Key Constraints Redacted

Legend

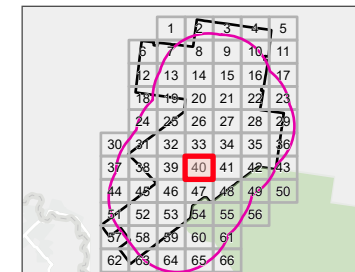
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1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |

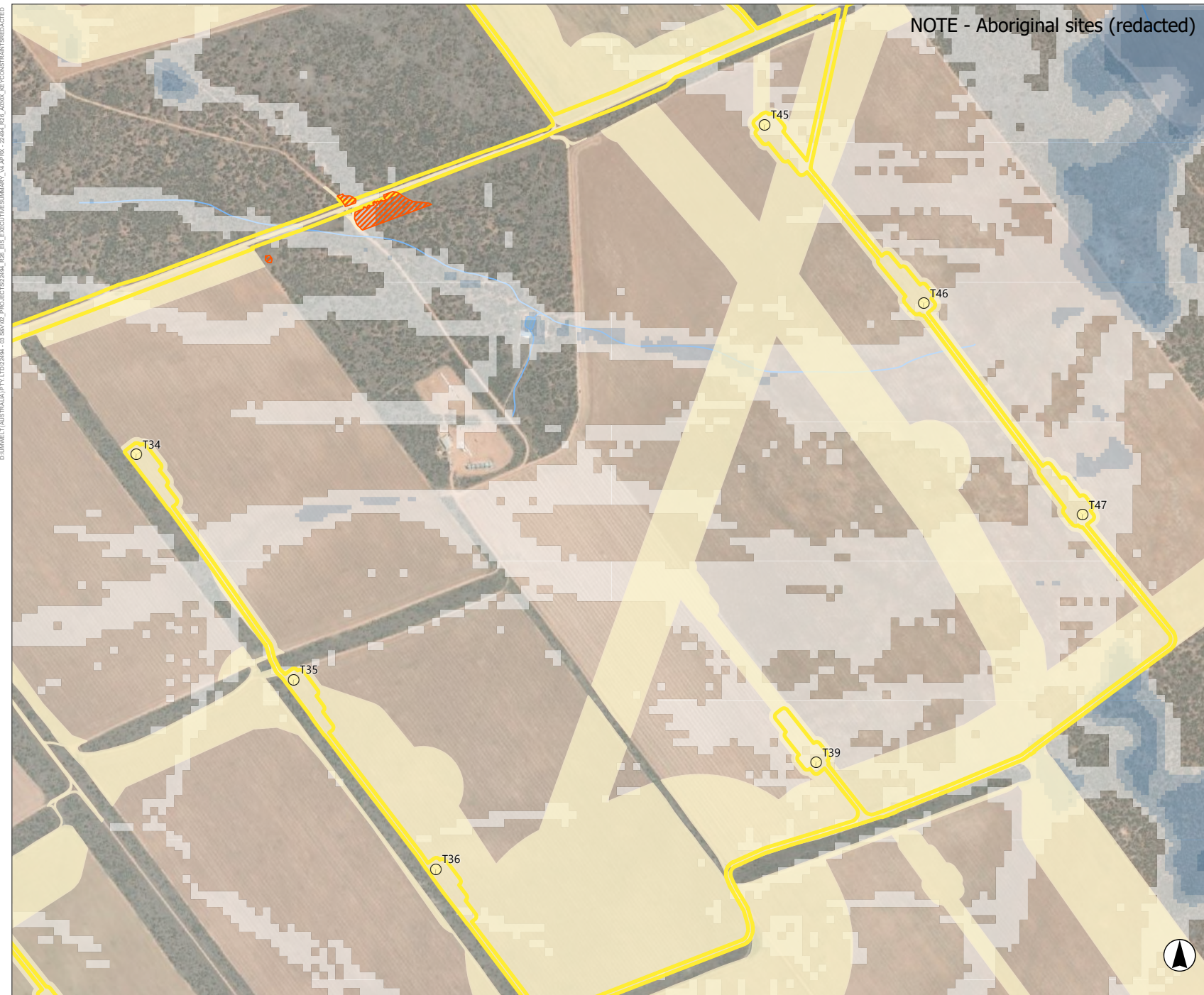


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NOTE - Aboriginal sites (redacted)



A3.41

Key Constraints Redacted

Legend

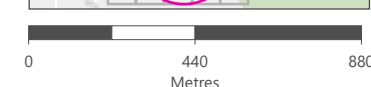
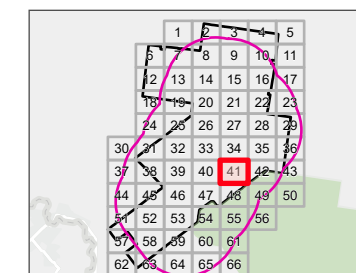
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- Hybrid Project
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- Wind Farm Project

1% AEP Flood Hazard

- H1
- H2
- H3
- H4
- H5
- H6

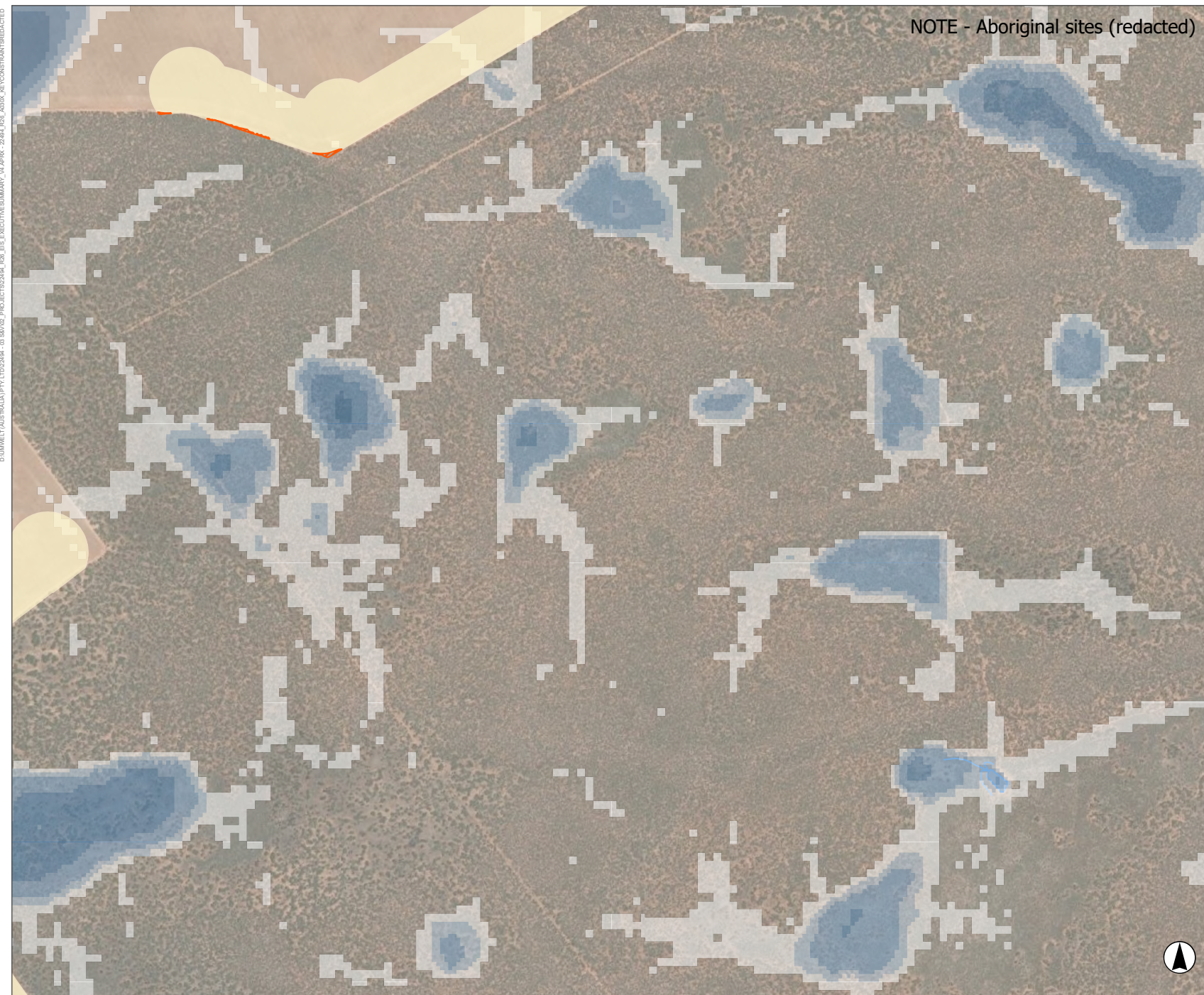


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NOTE - Aboriginal sites (redacted)



A3.42

Key Constraints Redacted

Legend

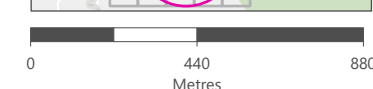
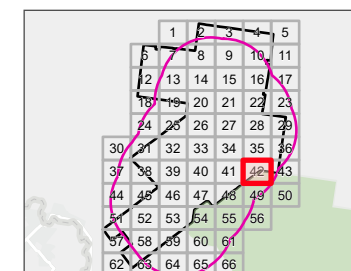
- Project Boundary
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1% AEP Flood Hazard

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| H1 | H4 |
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| H3 | H6 |

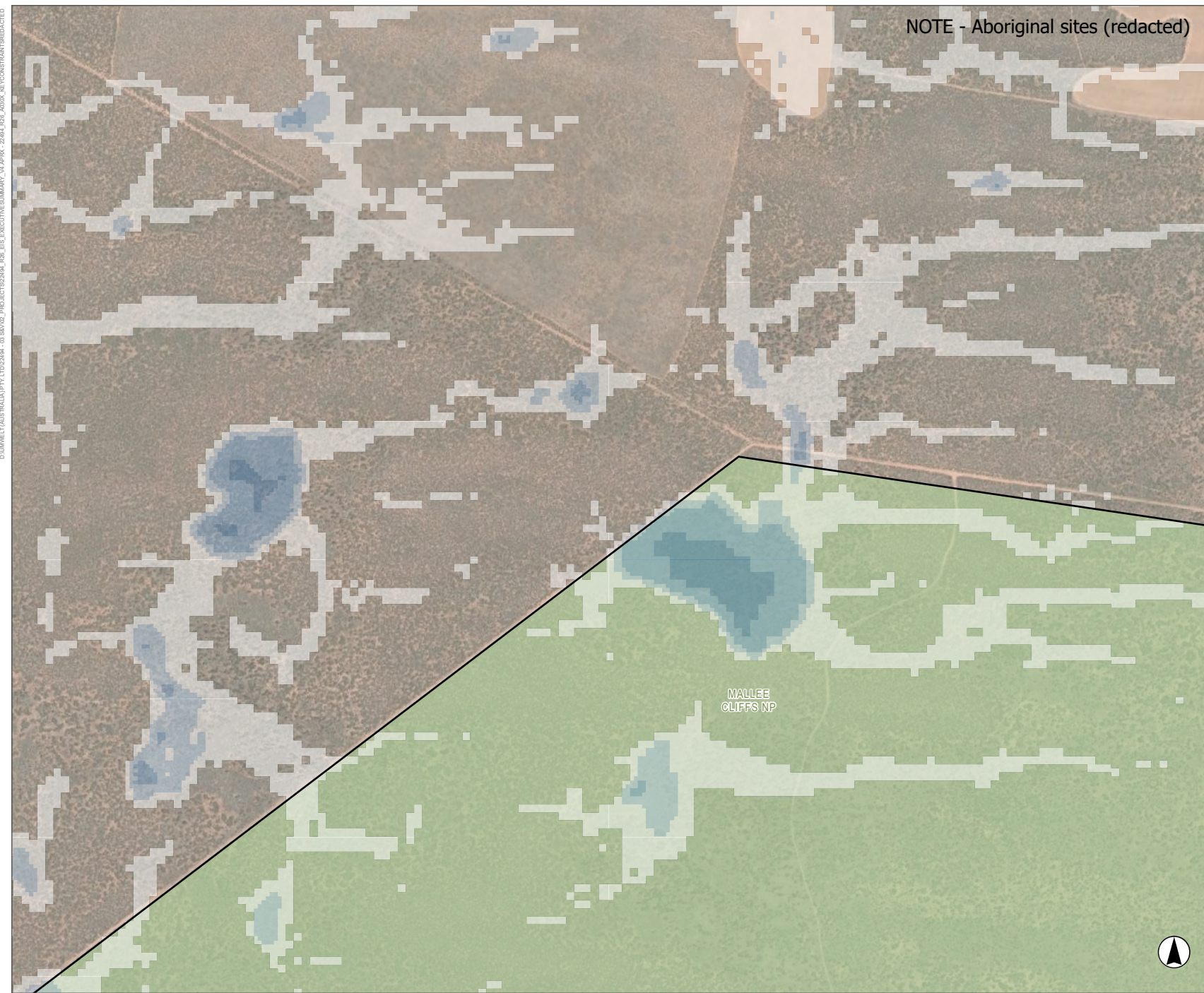


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NOTE - Aboriginal sites (redacted)

MALLEE CLIFFS NP



A3.43

Key Constraints Redacted

Legend

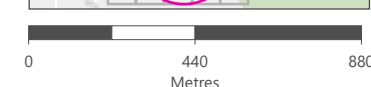
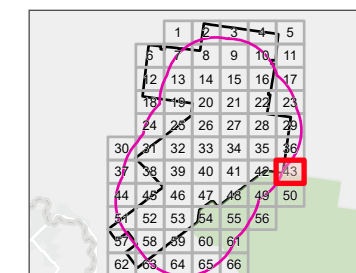
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1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |

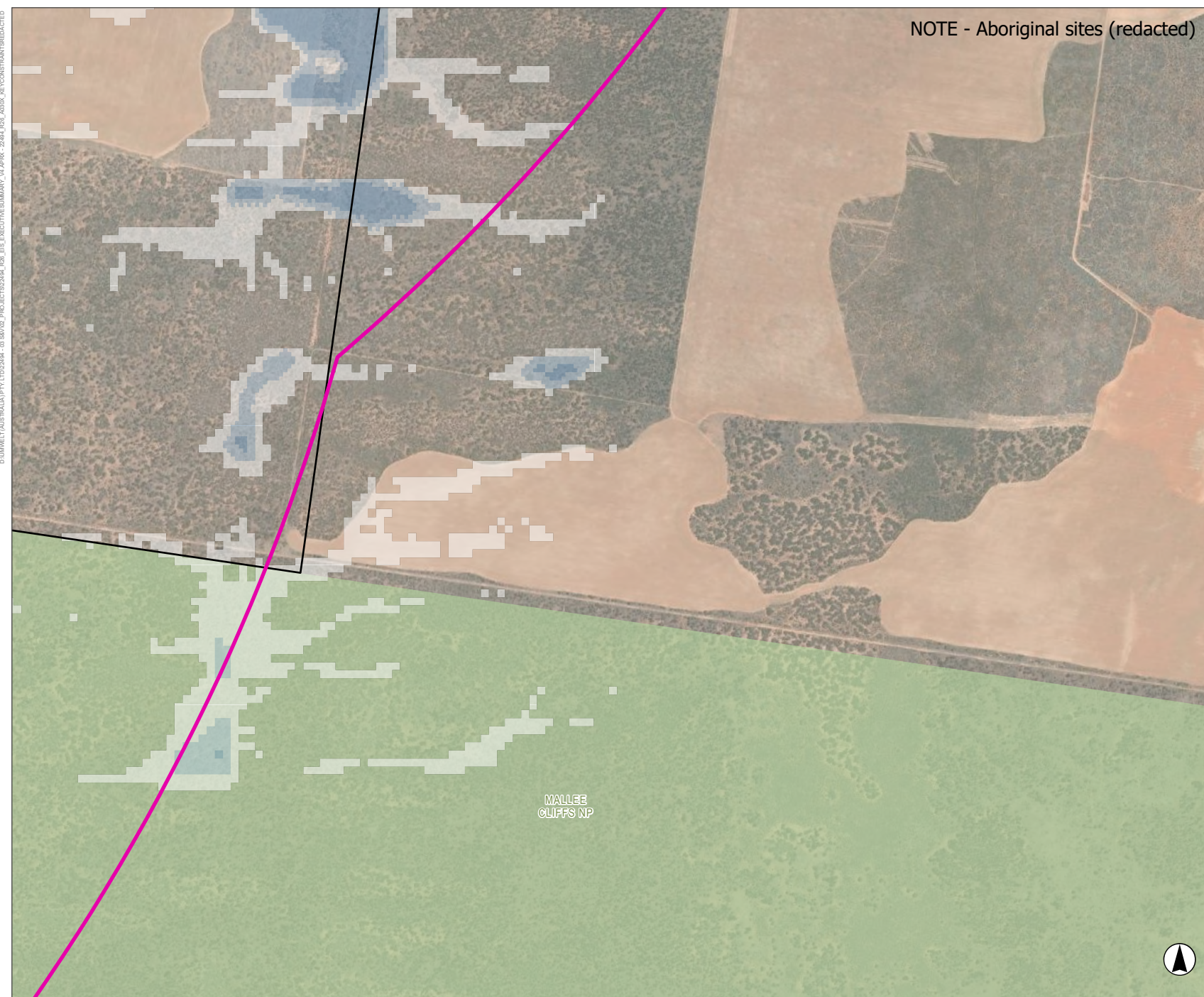


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NOTE - Aboriginal sites (redacted)

MALLEE CLIFFS NP



A3.44

Key Constraints Redacted

Legend

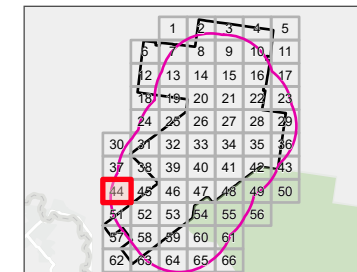
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1% AEP Flood Hazard

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| H1 | H4 |
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| H3 | H6 |



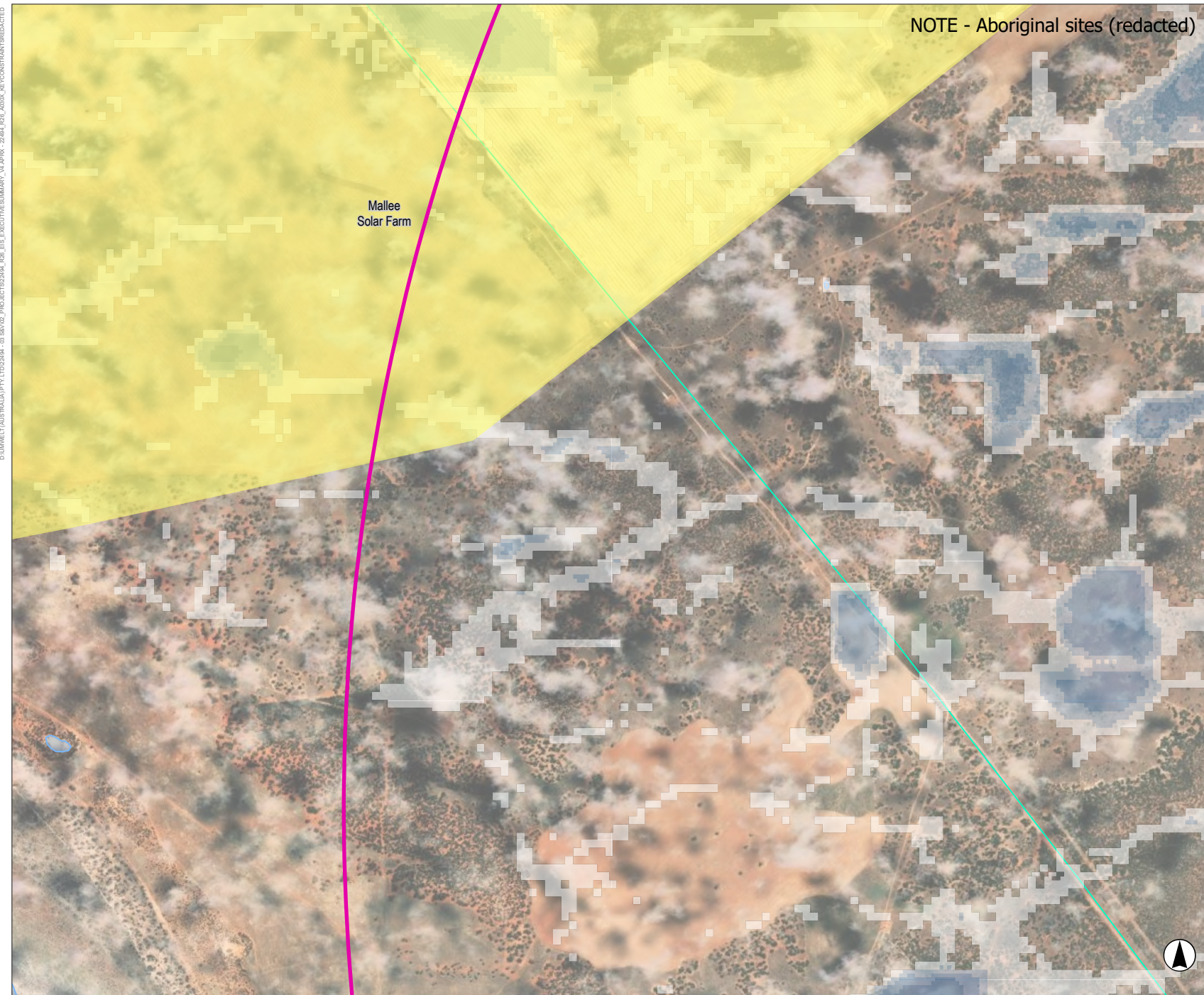
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Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)

Mallee Solar Farm



A3.46 Key Constraints Redacted

Legend

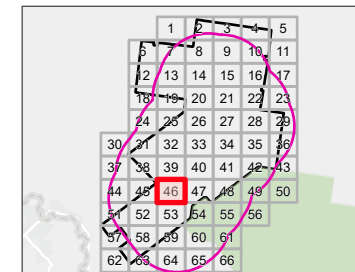
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1% AEP Flood Hazard

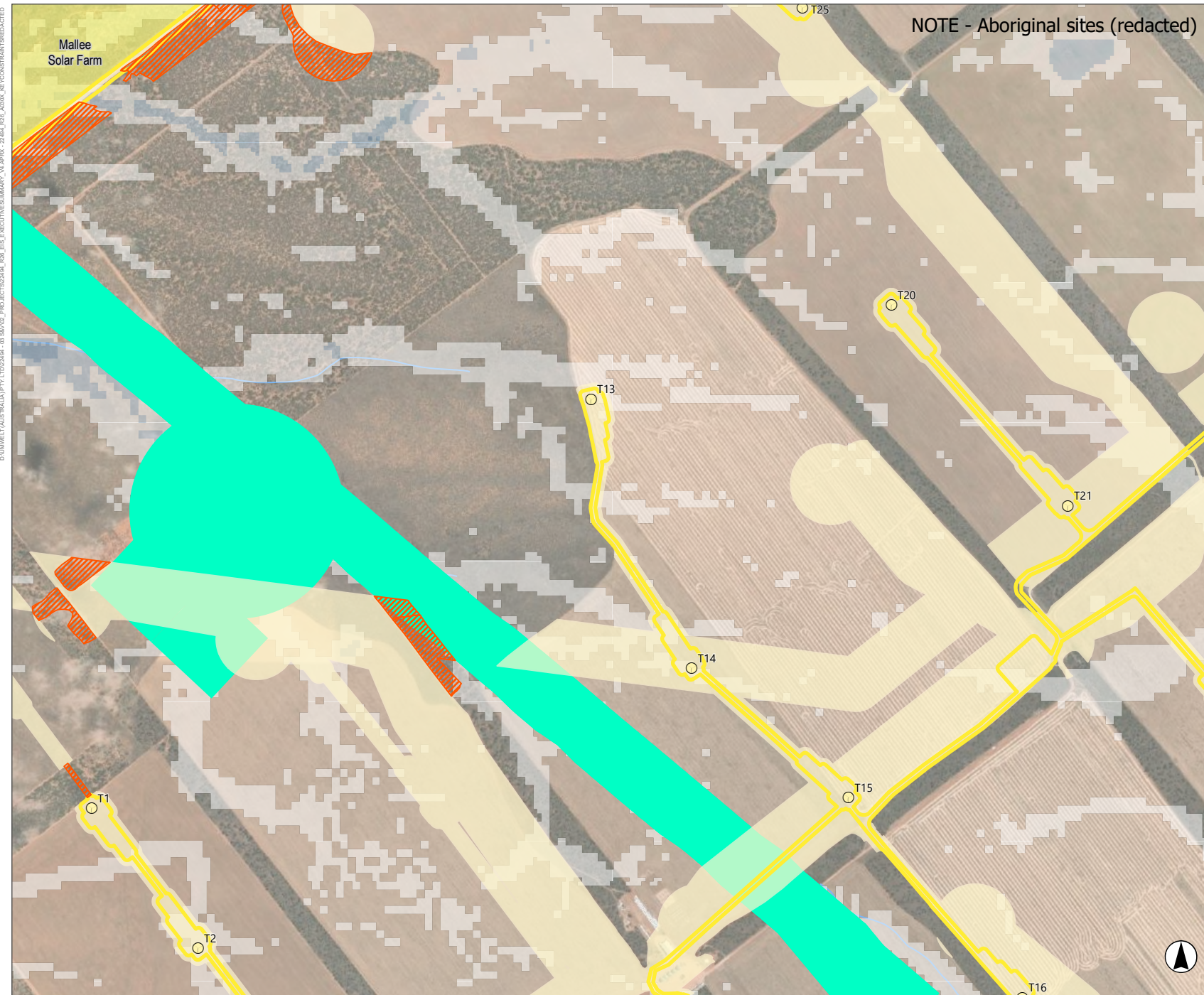
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Metres

Scale 1:20,000 at A4
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A3.47

Key Constraints Redacted

Legend

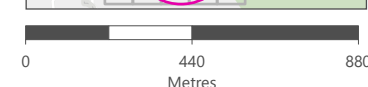
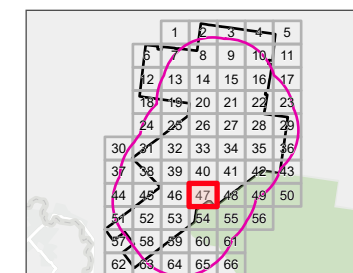
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1% AEP Flood Hazard

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| H3 | H6 |



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A3.48

Key Constraints Redacted

Legend

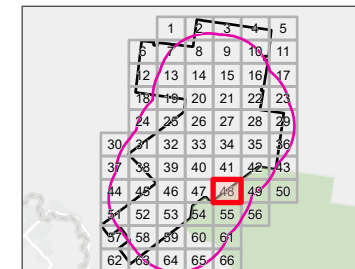
- Project Boundary
- Study area (8km from WTGs)
- Disturbance Footprint
- Access Points
- Wind Turbine Generators
- Host Dwelling
- Non-associated Dwelling
- Mallee Bird Community of the Murray Darling Depression Bioregion EEC
- Mallee Bird Community of the Murray Darling Depression Bioregion EEC
- Existing HV Transmission Lines
- Willandra Lakes Region / National Heritage Property
- Willandra Lakes World Heritage Area
- State Border
- Local Government Area (LGA)
- NPWS Estates
- Road
- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

- | | |
|----|----|
| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



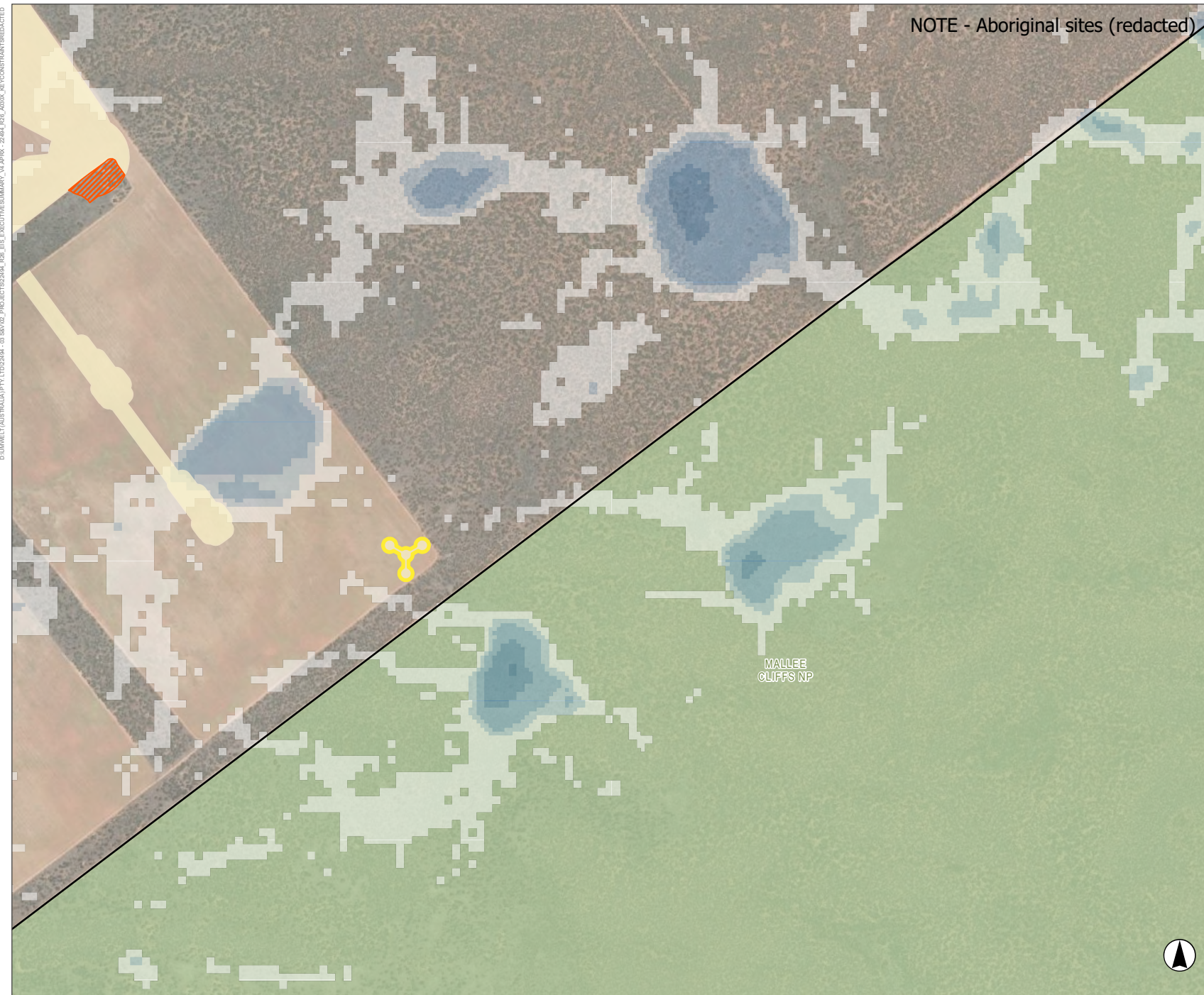
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Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)

MALLEE CLIFFS NP



A3.49

Key Constraints Redacted

Legend

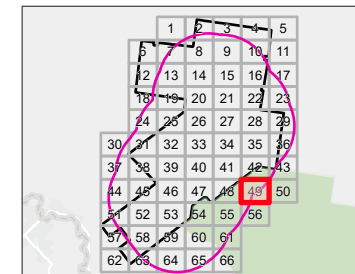
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- Study area (8km from WTGs)
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- Wind Turbine Generators
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- Watercourse

Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

- | | |
|----|----|
| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



0 440 880
Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)

MALLEE CLIFFS NP



NOTE - Aboriginal sites (redacted)

A3.50

Key Constraints Redacted

Legend

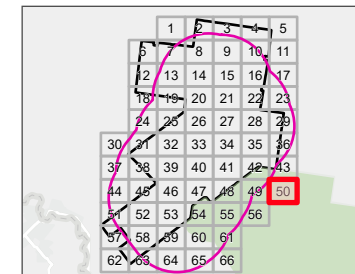
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Nearby Projects

- Solar Farm Project
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- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

- | | |
|----|----|
| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



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Metres

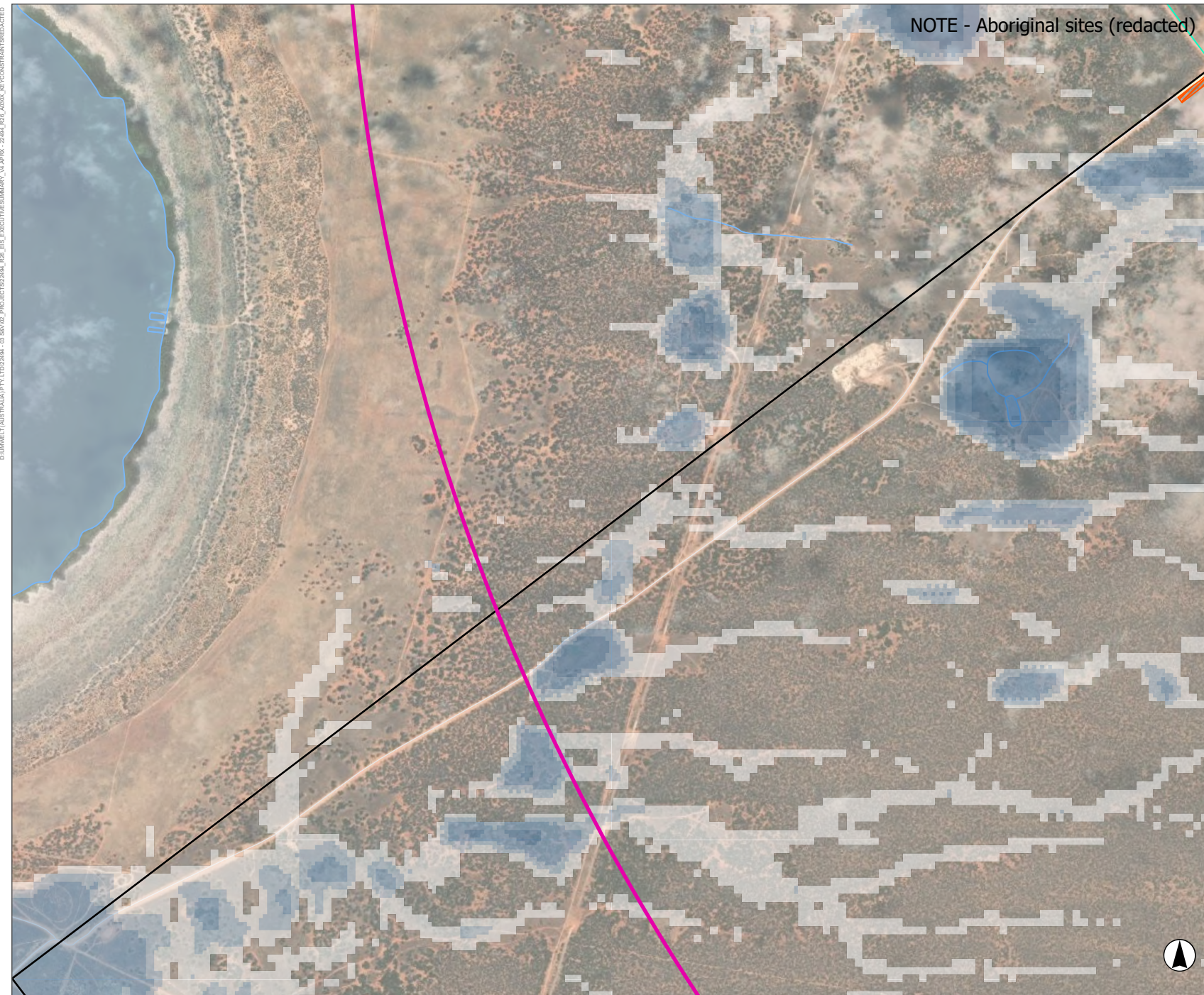
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GDA2020 MGA Zone 54



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MALLEE
CLIFFS NP

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NOTE - Aboriginal sites (redacted)

A3.51

Key Constraints Redacted

Legend

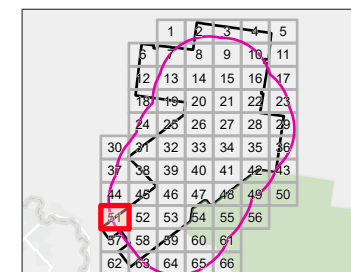
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- Study area (8km from WTGs)
- Disturbance Footprint
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- Wind Turbine Generators
- Host Dwelling
- Non-associated Dwelling
- Mallee Bird Community of the Murray Darling Depression Bioregion EEC
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- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

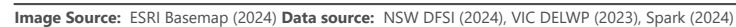
- H1
- H2
- H3
- H4
- H5
- H6



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Metres

Scale 1:20,000 at A4
GDA2020 MGA Zone 54

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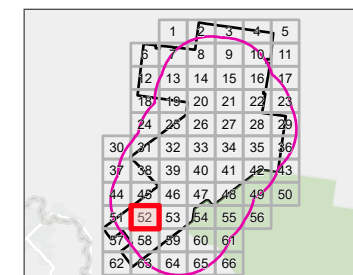


Key Constraints Redacted

- Project Boundary
- Study area (8km from WTGs)
- Disturbance Footprint
- Access Points
- Wind Turbine Generators
- Host Dwelling
- Non-associated Dwelling
- Mallee Bird Community of the Murray Darling Depression Bioregion EEC
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Solar Farm Project	Euston Mineral Sands Project
Hybrid Project	Buronga Landfill Expansion
Wind Farm Project	

	H1		H4
	H2		H5
	H3		H6



0 440 880

Metres

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A3.53

Key Constraints Redacted

Legend

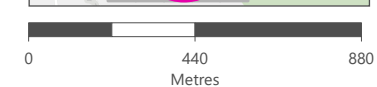
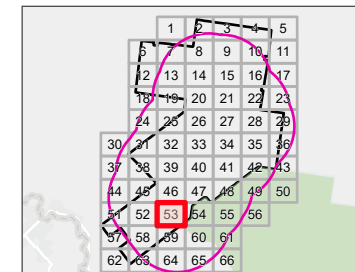
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- Wind Turbine Generators
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- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

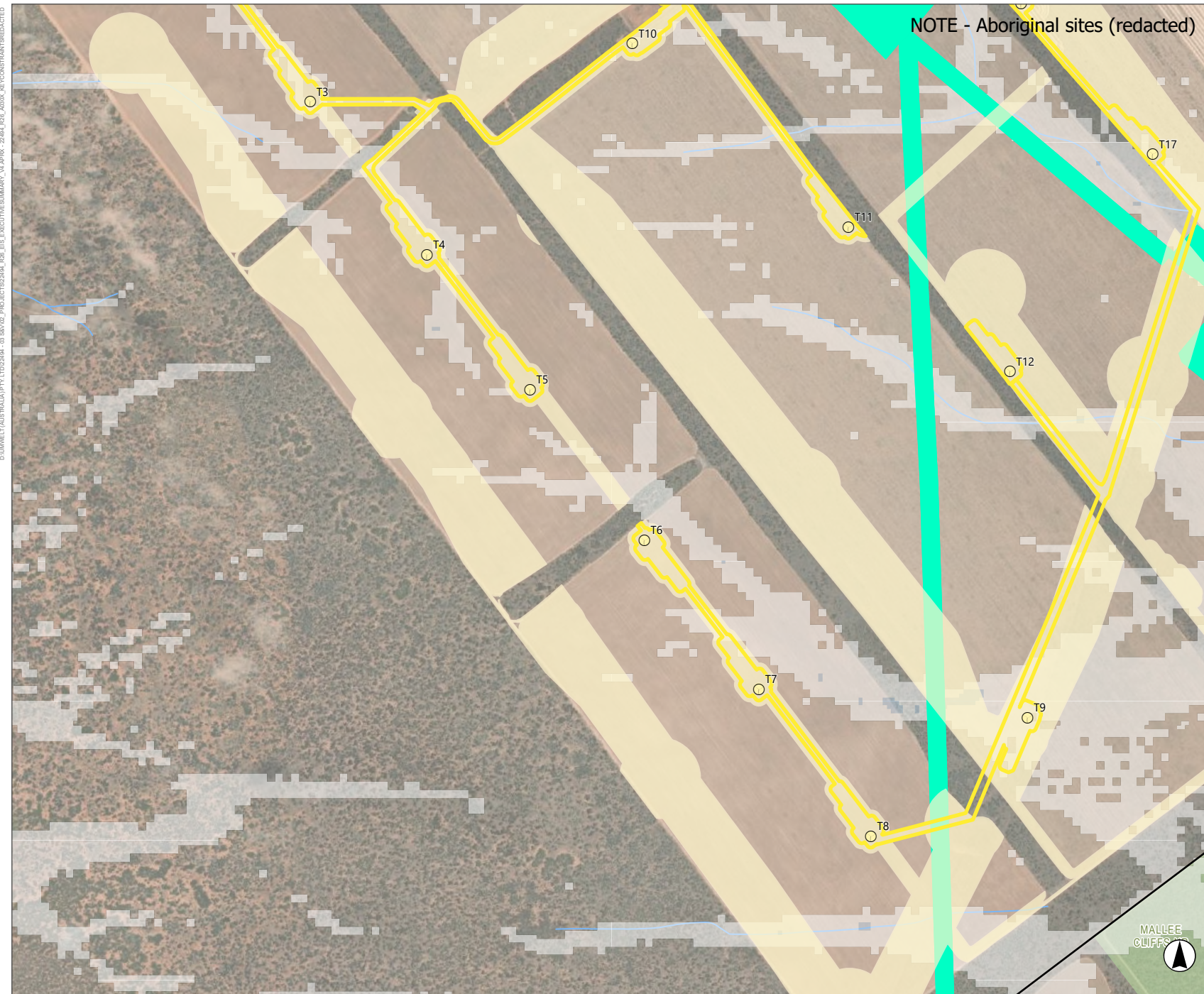
1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



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A3.54

Key Constraints Redacted

Legend

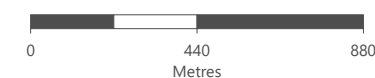
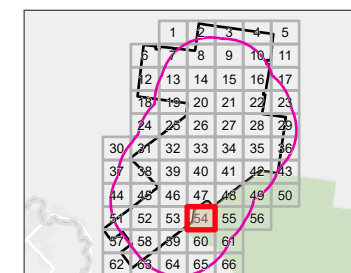
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Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



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NOTE - Aboriginal sites (redacted)

MALLEE CLIFFS NP



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A3.55

Key Constraints Redacted

Legend

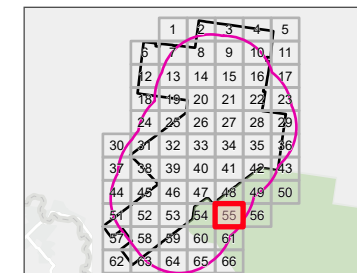
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- Access Points
- Wind Turbine Generators
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Nearby Projects

- Solar Farm Project
- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

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|----|----|
| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



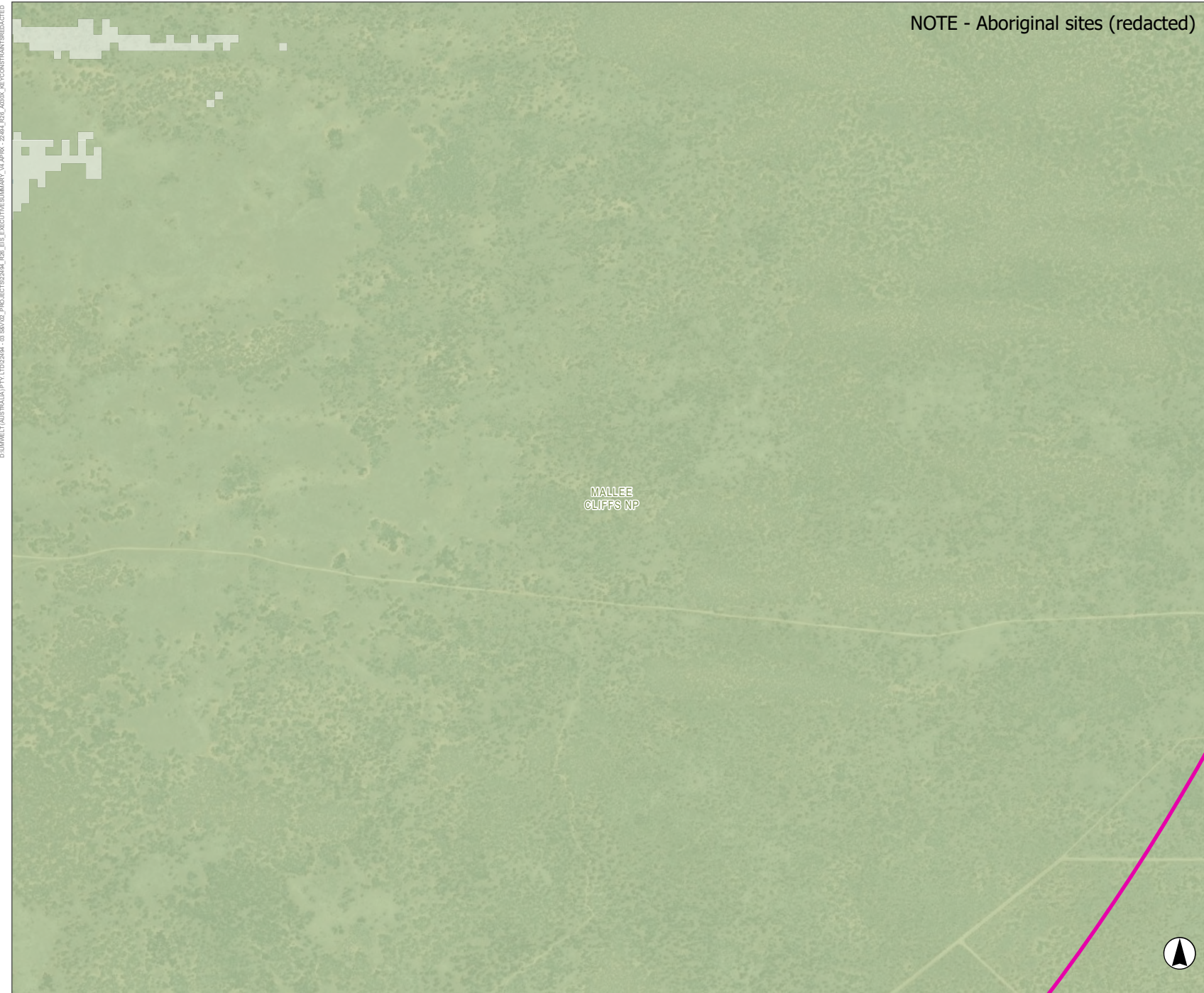
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GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)

MALLEE CLIFFS NP



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NOTE - Aboriginal sites (redacted)

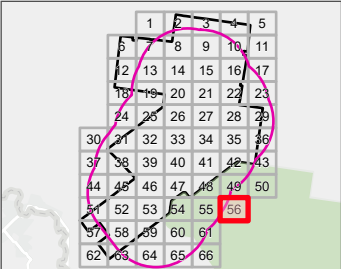
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Key Constraints Redacted

- Legend**
- Project Boundary
 - Study area (8km from WTGs)
 - Disturbance Footprint
 - Access Points
 - Wind Turbine Generators
 - Host Dwelling
 - Non-associated Dwelling
 - Mallee Bird Community of the Murray Darling Depression Bioregion EEC
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 - Existing HV Transmission Lines
 - Willandra Lakes Region / National Heritage Property
 - Willandra Lakes World Heritage Area
 - State Border
 - Local Government Area (LGA)
 - NPWS Estates
 - Road
 - Watercourse

- Nearby Projects**
- Solar Farm Project
 - Euston Mineral Sands Project
 - Hybrid Project
 - Buronga Landfill Expansion
 - Wind Farm Project

- 1% AEP Flood Hazard**
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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |

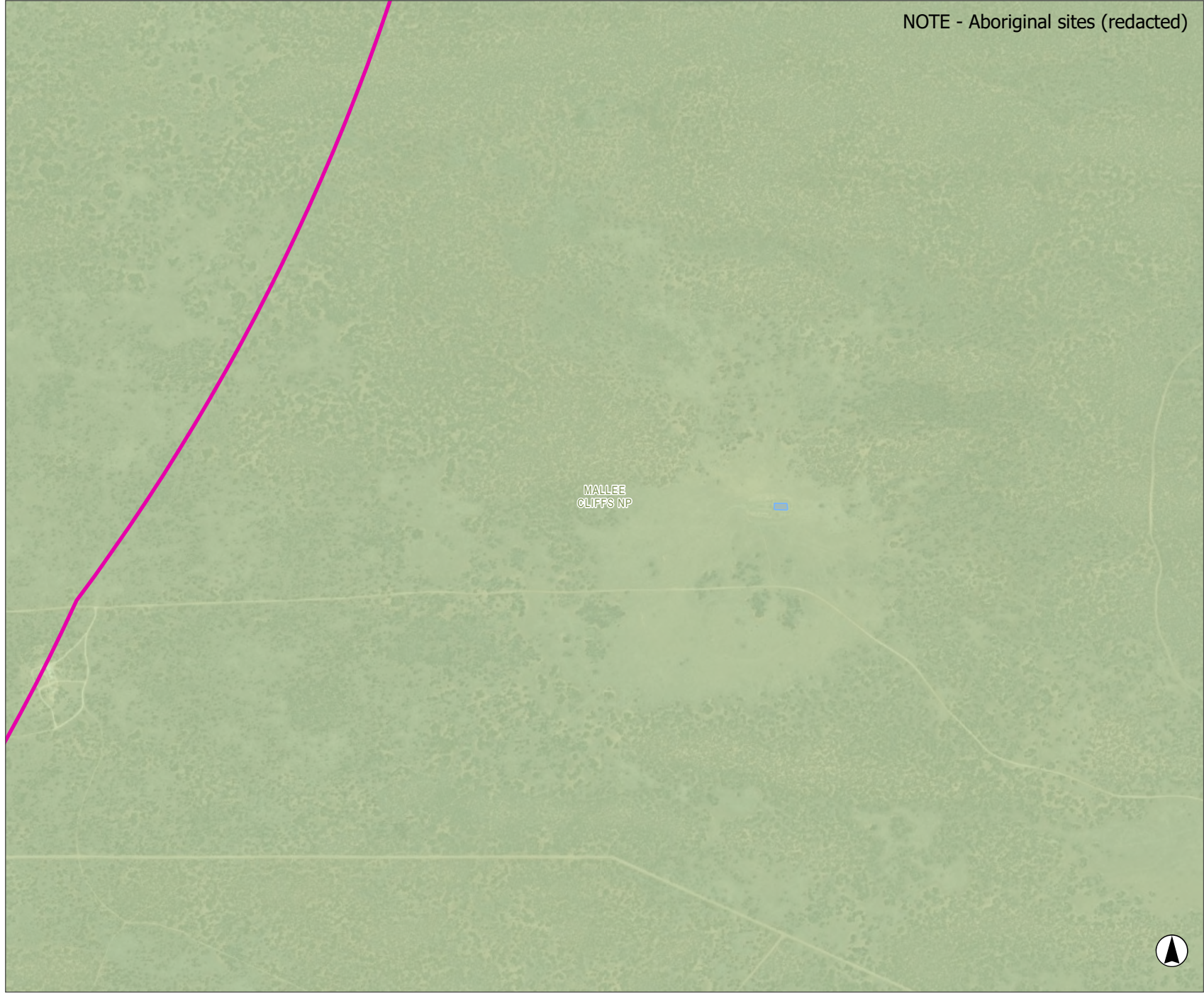


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A3.57

Key Constraints Redacted

Legend

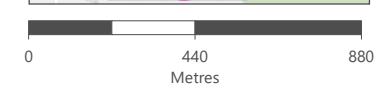
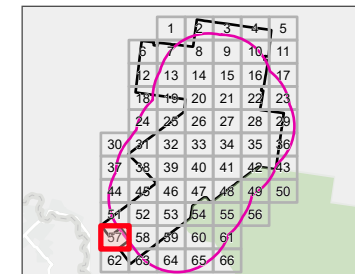
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- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

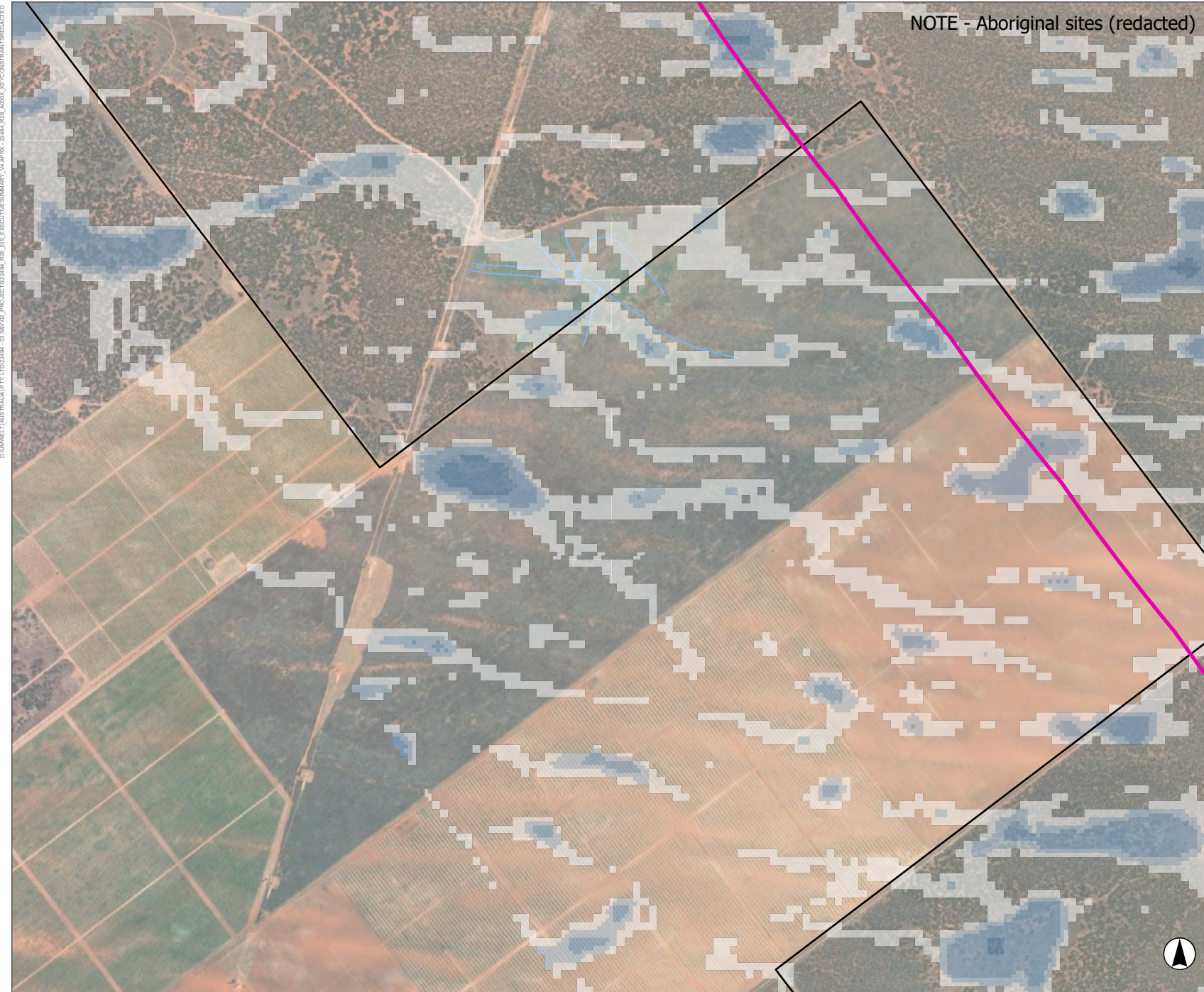
1% AEP Flood Hazard

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| H1 | H4 |
| H2 | H5 |
| H3 | H6 |



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GDA2020 MGA Zone 54

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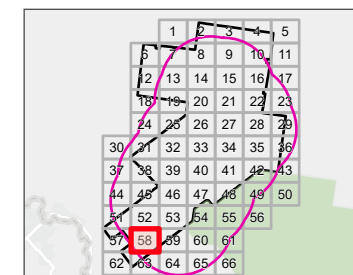


Key Constraints Redacted

- Project Boundary
- Study area (8km from WTGs)
- Disturbance Footprint
- Access Points
- Wind Turbine Generators
- Host Dwelling
- Non-associated Dwelling
- Mallee Bird Community of the Depression Bioregion EEC
- Mallee Bird Community of the Depression Bioregion EEC
- Existing HV Transmission Line
- Willandra Lakes Region / National Property
- Willandra Lakes World Heritage State Border
- Local Government Area (LGA)
- NPWS Estates
- Road
- Watercourse

 Solar Farm Project
 Hybrid Project
 Wind Farm Project
 Euston Mineral Sands Project
 Buronga Landfill Expansion

	H1		H4
	H2		H5
	H3		H6



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A3.59

Key Constraints Redacted

Legend

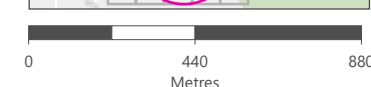
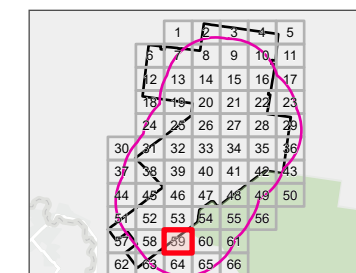
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- Watercourse

Nearby Projects

- Solar Farm Project
- Hybrid Project
- Wind Farm Project
- Euston Mineral Sands Project
- Buronga Landfill Expansion

1% AEP Flood Hazard

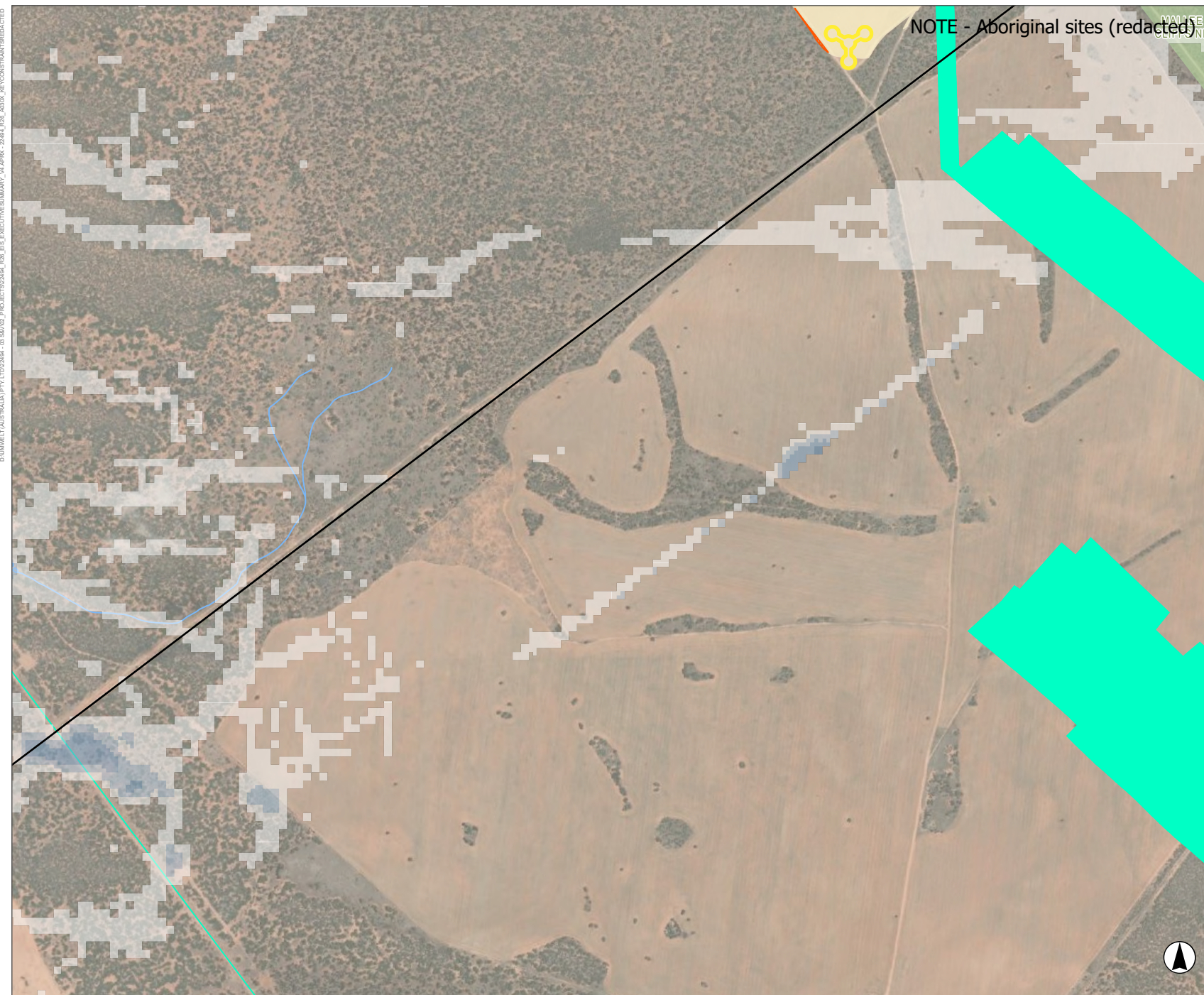
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- H2
- H3
- H4
- H5
- H6



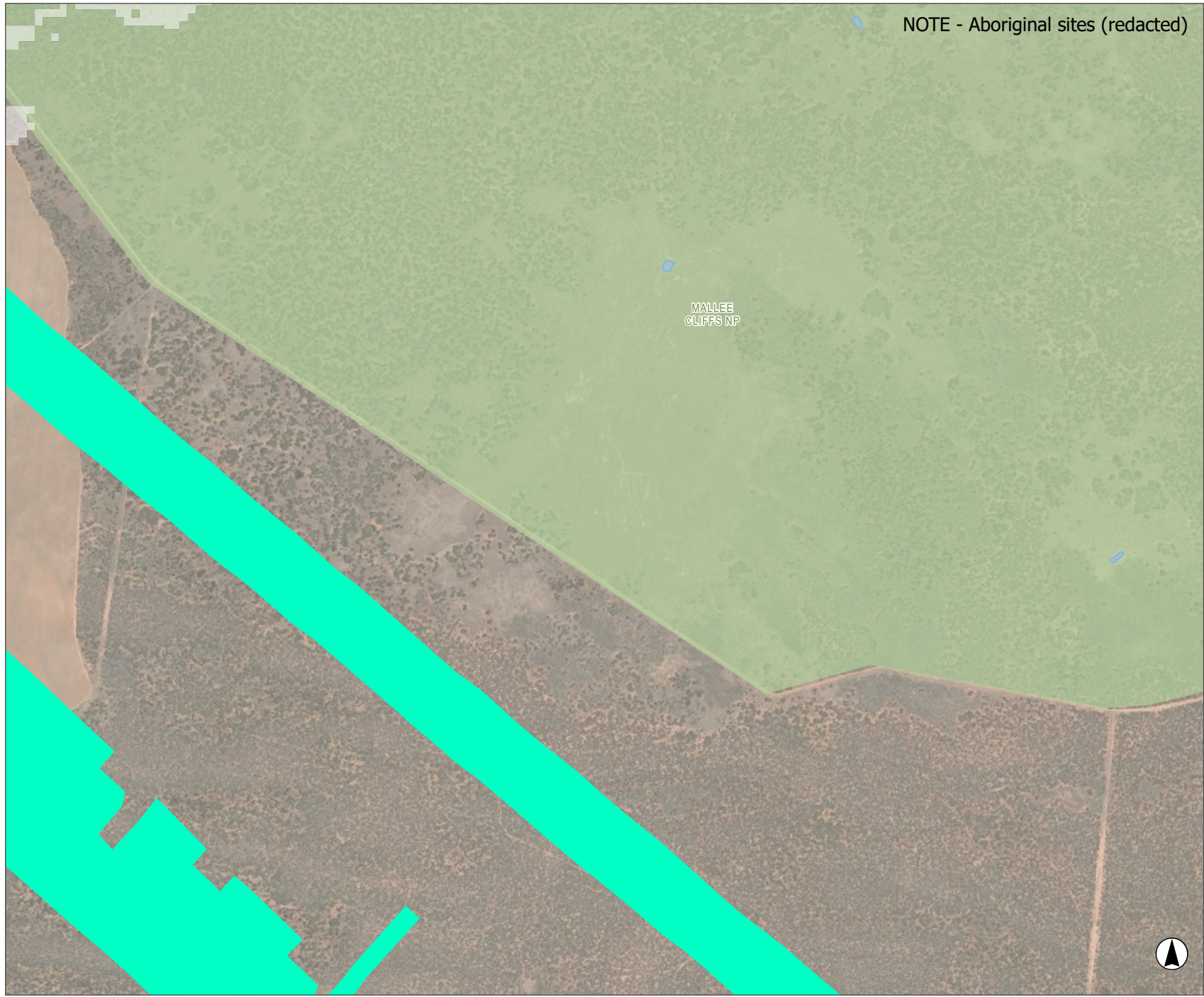
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GDA2020 MGA Zone 54

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NOTE - Aboriginal sites (redacted)



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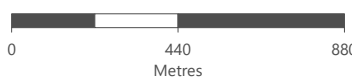
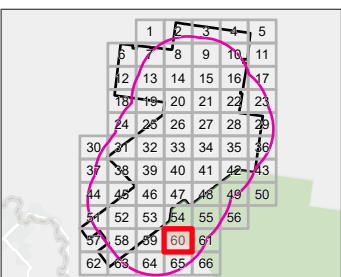
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Key Constraints Redacted

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 - Disturbance Footprint
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 - Host Dwelling
 - Non-associated Dwelling
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- Nearby Projects**
- Solar Farm Project
 - Euston Mineral Sands Project
 - Hybrid Project
 - Buronga Landfill Expansion
 - Wind Farm Project

- 1% AEP Flood Hazard**
- H1
 - H2
 - H3
 - H4
 - H5
 - H6



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GDA2020 MGA Zone 54

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A3.61

Key Constraints Redacted

Legend

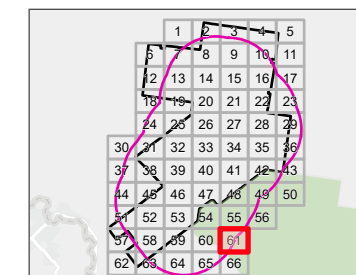
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- State Border
- Local Government Area (LGA)
- NPWS Estates
- Road
- Watercourse

Nearby Projects

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- Euston Mineral Sands Project
- Hybrid Project
- Buronga Landfill Expansion
- Wind Farm Project

1% AEP Flood Hazard

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NOTE - Aboriginal sites (redacted)

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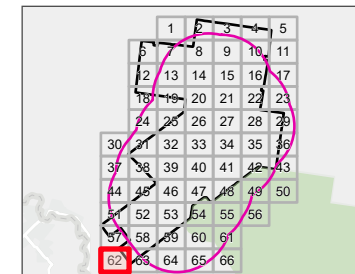
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NOTE - Aboriginal sites (redacted)



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Key Constraints Redacted

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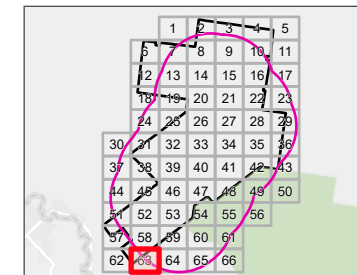
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NOTE - Aboriginal sites (redacted)



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NOTE - Aboriginal sites (redacted)

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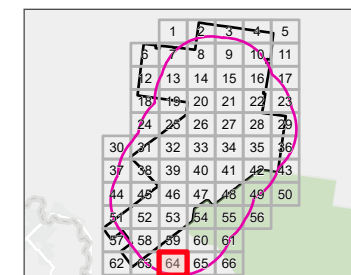
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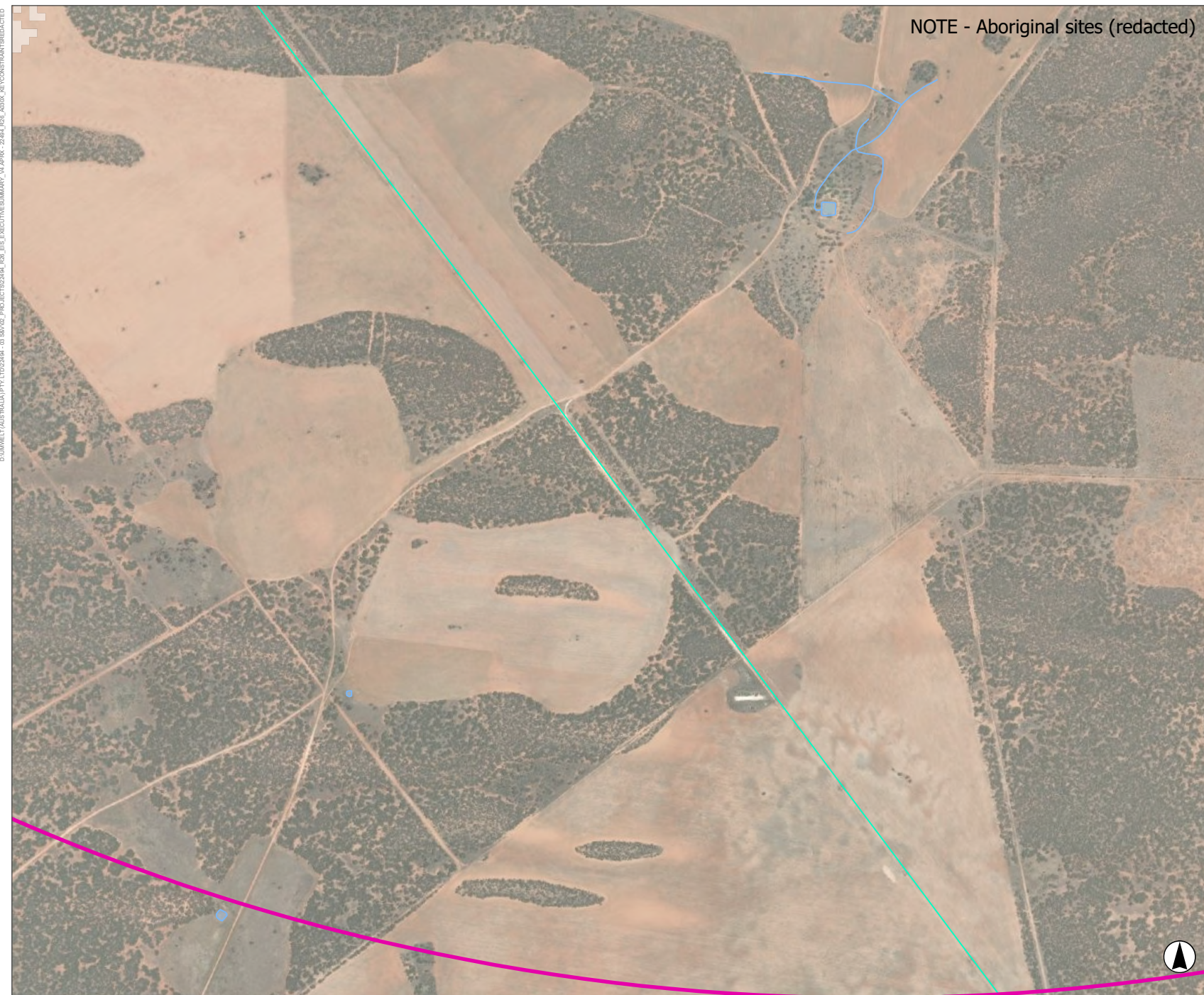
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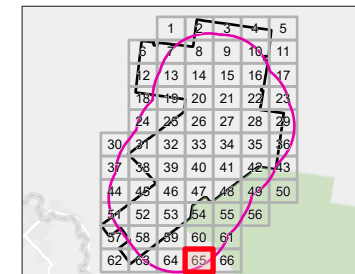
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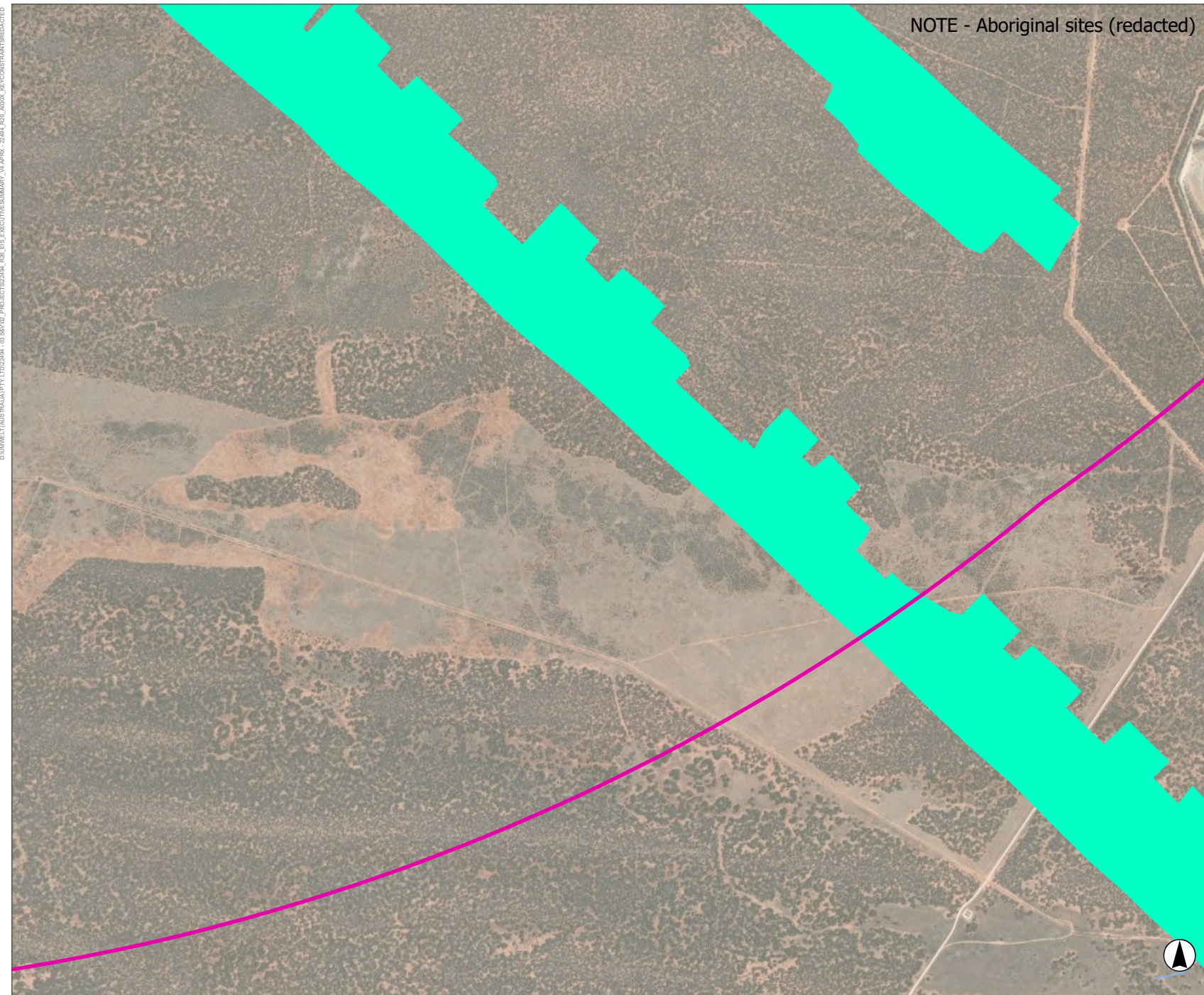


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NOTE - Aboriginal sites (redacted)



NOTE - Aboriginal sites (redacted)

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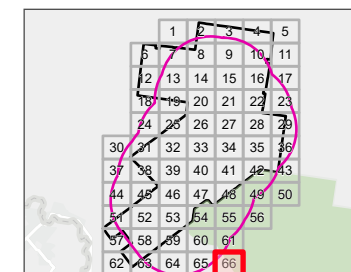
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Appendix 4

STATUTORY COMPLIANCE TABLE

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Table A4.1 Pre-conditions Table

Relevant Legislation	Pre-condition	Relevance	Relevant EIS Section
NSW Legislation			
State Environmental Planning Policy (Biodiversity and Conservation) 2021 (Biodiversity and Conservation SEPP)	Councils are restricted from granting development consent for proposals on land identified as core koala habitat without the preparation of a plan of management.	The Biodiversity and Conservation SEPP commenced in March 2022 and consolidates a number of previous SEPPs including Koala Habitat Protection 2019 and Koala Habitat Protection 2021 in Chapters 3 and 4, respectively. Wentworth LGA is identified in Schedule 2 of the Biodiversity and Conservation SEPP. Consequently, Chapter 3 applies to all land zoned RU1 Primary Production and Chapter 4 applies in respect of the remainder of the Project Area, which is zoned C2 Environmental Conservation. however, the Biodiversity and Conservation SEPP does not establish any specific obligations or considerations for SSD. Potential impacts to koala habitat have been comprehensively assessed in accordance with the Biodiversity Assessment Method (BAM) and the key assessment findings are presented in the Biodiversity Development Assessment Report (BDAR).	Appendix 6
State Environmental Planning Policy (Resilience and Hazards) 2021 (Resilience and Hazard SEPP)	The Resilience and Hazards SEPP requires a consent authority to consider whether an industrial development is a potentially hazardous industry or a potentially offensive industry. A preliminary hazard assessment (PHA) is to be completed for potentially hazardous developments to assist the consent authority to determine acceptability.	A PHA has been completed for the Project and is presented in Appendix 16 .	Appendix 16
State Environmental Planning Policy (Transport and Infrastructure) 2021 (T&I SEPP)	Clause 2.36(1)(b) of the T&I SEPP states that development for the purpose of electricity generating works may be carried out by any person with consent on any land in a prescribed rural, industrial or special use zone. Under Clause 2.7(1) of the T&I SEPP, the provisions prevail where there are inconsistencies with any other environmental planning instruments, including LEPs.	The Project is permissible with consent under the Wentworth Local Environmental Plan 2011. As such, clause 2.36(1)(b) of the T&I SEPP is not relevant.	Section 4.1.2

Relevant Legislation	Pre-condition	Relevance	Relevant EIS Section
<i>Biodiversity Conservation Act 2016</i> (BC Act)	Under the BC Act, biodiversity assessment in accordance with the Biodiversity Assessment Method (BAM) is required for any State significant development (SSD) project	A comprehensive biodiversity assessment has been undertaken in accordance with the BAM.	Appendix 6
<i>Protection of the Environment Operations Act 1997</i> (POEO Act)	The POEO Act regulates pollution to the environment and requires licences for environmental protection including waste, air, water and noise pollution control. Wind farms are a scheduled activity under the POEO Act and require an Environment Protection Licence (EPL).	Should the Project be approved an EPL would be sought in relation to the Project. Section 4.42 of the <i>Environmental Planning and Assessment Act 1979</i> (EP&A) Act provides that where an SSD is authorised by development consent, an EPL necessary to carry out that development cannot be refused and must be substantially consistent with the consent.	N/A
<i>Water Management Act 2000</i> (WM Act)	Any take from surface water and groundwater sources regulated by a Water Sharing Plan (WSP) during the construction, operation and decommissioning of the Project requires licensing under the WM Act.	Water requirements will be met in accordance with the provisions of the WM Act by sourcing water from within the locality where practicable and from a licensed commercial water supplier. Water for construction purposes will be opportunistically sourced from the following methods to minimise the need for imported water: • use from existing dams where harvestable rights apply • reuse from construction sediment basins; and • reuse from rainwater tanks collecting runoff from building roofs. If it is not practicable to source water locally, then it will be brought to the Project Area by licensed external water suppliers under contract to the Project.	Appendix 13
<i>Roads Act 1993</i> (Roads Act)	A consent is required under section 138 to work on or above a road or to connect a road to a classified road.	The Project will require minor works in Euston and Buronga to accommodate OSOM movements including the installation of hardstand, light pole relocations, multiple signs to be relocated, vegetation trimming. Gate and fence modifications are also required along Arumppo Road, as described in Section 3.5.8 .	Section 3.5.8, Appendix 3 and Appendix 12.

Relevant Legislation	Pre-condition	Relevance	Relevant EIS Section
		Road upgrades and modifications between Port of Newcastle and Sturt Highway/ Carey Street roundabout at Euston would be subject to further consultation with DPHI, EnergyCo and TfNSW. Conceptual designs for road upgrades are provided in Appendix 3. Section 138 approval will be sought from TfNSW and the applicable Councils, as required. A detailed Traffic and Transport Impact Assessment is provided in Appendix 12.	
<i>Crown Land Management Act 2016</i> (Crown Land Act)	The Crown Land Act provides for the administration and management of Crown Land in NSW. Crown land may not be occupied, used, sold, leased, licensed, dedicated, reserved or otherwise dealt with unless authorised by the Crown Land Act.	The Land Parcels within the Project Area are currently designated as Crown Land (Lot 1726/DP763664, 1727/DP763667, and 3805/DP763156) and are associated with Crown Lands leases established by the Host landholders as part of the broader Crown Lands 'Western Division.' The Host landholders intend to purchase the Crown Land 'Western Land Leases' to acquire freehold title before construction. This process has commenced in accordance with the provisions of the Crown Land Act, including special provisions applicable to land in the Western Division, as well as any other relevant legislation. Of the three Crown Land parcels that will be converted to freehold title, two have received an offer to purchase (1726/DP763664 and 1727/DP763667) and the remaining parcel is well progressed through the freehold application process. In the unlikely event that host landowners are unable to obtain freehold title within the specified timeframe, adjustments to the landowner leases may be necessary to accommodate any works that may intersect areas of Crown Land. A Travelling Stock Reserve (TSR) R66986 is located along the northern extent of the Project Area at the northern portion of Arumpo Road. Consultation with Crown Lands is discussed in Section 5.0.	Section 2.6.2 and Section 5.0 .

Relevant Legislation	Pre-condition	Relevance	Relevant EIS Section
<i>Contaminated Land Management Act 1997</i> (CLM Act)	The CLM Act establishes the process for investigating and if required, remediating land that the NSW Environment Protection Authority (EPA) considers to be contaminated significantly enough to require regulation under Division 2 of Part 3.	The Project Area does not contain land listed on the Contaminated Lands Register and is not known to contain any contaminated land.	Section 2.6.5
Commonwealth Legislation			
<i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)	Under the EPBC Act the approval of the Commonwealth Minister for the Environment is required for any action that may have a significant impact on a matter of national environmental significance (MNES). Approval under Part 9 of the EPBC Act is required for actions that may result in a significant impact on MNES.	The Project was referred to the Commonwealth Minister for the Environment (EPBC 2023/09500). On 7 June 2023, the Project was declared a Controlled Action under section 75 of the EPBC Act. The controlling provisions for the action are: i. World Heritage Properties (sections 12 and 12A) ii. National Heritage Places (sections 15B and 15C) iii. listed threatened species and communities (sections 18 and 18A) iv. listed migratory species (sections 20 and 20A). It was further determined that the Project will be assessed under the Bilateral Agreement between NSW and the Commonwealth (Amending Agreement No. 1). The Controlled Action Decision (EPBC 2023/09500) is provided in Appendix 1 . Supplementary SEARs were subsequently issued by the former NSW Department of Planning and Environment. The Supplementary SEARs are included in Appendix 1 , along with a list of protected matters identified by the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) as relevant to the Project. These requirements are addressed in detail in Appendix C of Appendix 6 .	Appendix 1 and Appendix 6
<i>Native Title Act 1993</i> (NT Act)	The NT Act recognises the interests and rights Aboriginal people have to land and aims to provide recognition and protection of common law native title rights.	No Native Title Determinations or Registered Claims or Indigenous Land Use Agreements are recorded within the Project Area.	Appendix 7

Relevant Legislation	Pre-condition	Relevance	Relevant EIS Section
<i>Civil Aviation Regulations 1988</i>	The Civil Aviation Regulations 1998 require any potential aviation obstacles and hazards be assessed under the National Airports Safeguarding Framework Guideline D: Managing Wind Turbine Risk to Aircraft.	The Project may be considered an aviation obstacle. An Aviation Impact Assessment has been undertaken to support the Project.	Appendix 20
<i>Heavy Vehicle (Adoption of National Law) Act 2013</i>	Relevant approvals under the Heavy Vehicle (Adoption of National Law) Act 2013 will be required for the transport of wind turbines and associated infrastructure by OSOM vehicles.	The Project will require the use of OSOM vehicles to transport wind turbines and associated infrastructure to the Project Area.	Appendix 12
<i>Radio Communications Act 1992</i>	Under Part 4.1 of the Radio Communications Act 1992, a legislative framework has been established to regulate equipment that uses or is affected by radio emissions.	Radio communications can be impacted by proposed wind farms through electromagnetic interference (EMI) produced by the turbines.	Appendix 18

Table A4.2 Mandatory Considerations Table

Relevant Legislation	Mandatory Consideration	Relevance	Reference
Considerations under the EP&A Act and EP&A Regulation			
Objects of the Act (Section 1.3) Relevant objects of the Act include:	- to promote the social and economic welfare of the community and a better environment by the proper management, development and conservation of the State's natural and other resources - to facilitate ecologically sustainable development by integrating relevant economic, environmental and social considerations in decision-making about environmental planning and assessment - to promote the orderly and economic use and development of land	The Project aims to provide a reliable and affordable source of energy for the people of NSW. The Project will also contribute to reducing greenhouse gas (GHG) emissions associated with energy generation and provide significant economic benefits to the region. The Project is therefore strategically located in an area identified by the NSW Government as suitable for renewable energy projects and will assist the NSW Government in delivering on the objectives for the Electricity Strategy and the South-West REZ.	Section 2.0 and Section 7.0

Relevant Legislation	Mandatory Consideration	Relevance	Reference
	- to protect the environment, including the conservation of threatened and other species of native animals and plants, ecological communities and their habitats - to promote the sustainable management of built and cultural heritage (including Aboriginal cultural heritage).	The Project has been designed through a comprehensive process that incorporates community and stakeholder feedback and the findings of environmental and social studies to maximise positive social and economic outcomes while minimising adverse impacts to the environment, built and cultural heritage. As such, it is considered to represent an orderly and economic use of land.	
Evaluation (Section 4.15) In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application— (4) (a) the provisions of:	(i) Any environmental planning instrument that apply to the land to which the development application relates	Relevant environmental planning instruments are listed in the next sub-section of this table (see below).	Refer below
Evaluation (Section 4.15) In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application— (4) (a) the provisions of:	(ii) Any proposed instrument that is or has been the subject of public consultation under this Act and that has been notified to the consent authority (unless the Secretary has notified the consent authority that the making of the proposed instrument has been deferred indefinitely or has not been approved) that apply to the land to which the development application relates	At the time of preparing this EIS, there were no known proposed environmental planning instruments that are relevant to the application.	Not Applicable

Relevant Legislation	Mandatory Consideration	Relevance	Reference
Evaluation (Section 4.15) In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application — (4) (a) the provisions of:	(iii) Any development control plan that apply to the land to which the development application relates	As per Clause 2.10 of the Planning Systems SEPP, development control plans do not apply to SSD projects.	Not Applicable
Evaluation (Section 4.15) In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application — (4) (a) the provisions of:	(iii) (a) Any planning agreement that has been entered into under section 7.4, or any draft planning agreement that a developer has offered to enter into under section 7.4 that apply to the land to which the development application relates	Spark Renewables is committed to entering into a Planning Agreement with Wentworth Shire Council in respect of the Project	Section 2.8
Evaluation (Section 4.15) In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application — (4) (a) the provisions of:	(iv) The regulations (to the extent that they prescribe matters for the purposes of this paragraph) that apply to the land to which the development application relates	This EIS has been prepared in accordance with the requirements of the EP&A Regulation	Throughout the EIS
(b) The likely impacts of that development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality	-	A detailed assessment has been undertaken with respect to the Project's environmental social and economic impacts, as documented within this EIS.	Section 6.0 and the various specialist assessment reports provided in the Appendices.
(c) The suitability of the site for the development	-	The site is considered suitable for the Project for the reasons outlined in Section 7.2.	Section 7.2

Relevant Legislation	Mandatory Consideration	Relevance	Reference
(d) Any submissions made in accordance with this Act or the regulations	-	Comments to be received on the EIS during the public exhibition period will be addressed in the submissions process. Consultation has been undertaken with the community and other stakeholders to inform this EIS.	Not Applicable
(e) The public interest	-	The approval of the Project is considered to be in the public interest for the reasons outlined in Section 7.0 .	Section 7.0
Section 4.24	Relevant concept approval.	There are no concept approvals relevant to the Project.	Not Applicable
Considerations under other legislation			
BC Act (NSW)	Under the BC Act, biodiversity assessment in accordance with the Biodiversity Assessment Method (BAM) is required for any SSD project. The likely impact of the proposed development on biodiversity values as assessed in the biodiversity development assessment report. The Minister for Planning may (but is not required to) further consider under that Act the likely impact of the proposed development on biodiversity values.	A Biodiversity Development Assessment Report (BDAR) has been completed for the Project in accordance with the BAM.	Appendix 6
Civil Aviation Regulations 1988 (Cth)	Reporting of tall structures to the Royal Australian Air Force (RAAF) is required under the Civil Aviation Regulations 1988.	Development of the Project will require installation of tall structures. A detailed Aviation Impact Assessment in accordance with the regulations and consultation with the relevant agencies has been undertaken as part of the preparation of the EIS.	Appendix 20

Relevant Legislation	Mandatory Consideration	Relevance	Reference
Considerations under EPIs			
State Environmental Planning Policy (Resilience and Hazards) 2021 (Resilience and Hazards SEPP) Chapter 3 Hazardous and offensive development Chapter 4 Remediation of Land	Chapter 3 of Resilience and Hazards SEPP assesses the potential hazards associated with the Project by providing definitions and guidelines for hazardous industry, offensive industry, hazardous storage establishments, and offensive storage establishments. Chapter 4 of Resilience and Hazards SEPP promotes the remediation of contaminated land for the purpose of reducing the risk of harm to human health or any other aspect of the environment.	In accordance with Section 3.7 of the Hazards SEPP, this EIS has considered current circulars and guidelines published by the Department that relate to hazardous or offensive development, including: • Hazardous Industry Advisory Paper No. 4 – Risk Criteria for Land Use Safety Planning (HIPAP 4) (Department of Planning, 2011). • Hazardous Industry Planning Advisory Paper No. 6 – Guidelines for Hazard Analysis (HIPAP 6) (Department of Planning, 2011). • Multi-Level Risk Assessment (Department of Planning, 2011). • Planning for Bush Fire Protection 2019 (NSW RFS, 2019). A Preliminary Hazard Analysis (PHA) has been developed for the Project (Appendix 16). Under Clause 4.6, a consent authority is required to consider whether a proposed development site is affected by soil or other contaminants before granting consent. An Agricultural Impact Assessment provides further discussion on the potential impacts on soil and agriculture resources associated with the Project (Appendix 14).	Appendix 14 and Appendix 16
State Environmental Planning Policy (Biodiversity and Conservation) 2021 (Biodiversity and Conservation SEPP)	Nil	The SEPP does not establish any specific mandatory considerations for SSD.	Appendix 6

Relevant Legislation	Mandatory Consideration	Relevance	Reference
State Environmental Planning Policy (Primary Production) 2021 (Primary Production SEPP)	The primary Production SEPP contains planning provisions to manage primary production and rural development, including supporting sustainable agriculture for the protection of prime agricultural land of state and regional significance, as well as regionally significant mining and extractive resources.	A detailed Land, Soils and Agriculture Assessment has been undertaken for the Project, informed by a soil survey.	Appendix 14

Table A4.3 Local Environmental Plan Provisions – Wentworth Local Environmental Plan 2011 (Wentworth LEP)

Provision	Relevance	Relevant EIS Section
The EIS addresses relevant components of the Wentworth LEP. The aims of the plan include: (aa) to protect and promote the use and development of land for arts and cultural activity, including music and other performance arts, (a) to encourage and manage ecologically sustainable development within Wentworth, (b) to encourage the retention and enhancement of land that supports the primary economic activities within Wentworth for productive agriculture and other primary production purposes, (c) to conserve and protect items of European and Aboriginal cultural heritage, (d) to conserve and protect areas of environmental significance, particularly conservation parks, reserves and the Murray and Darling River systems.	The Project is considered to represent ecologically sustainable development (ESD) on the basis that: - It will provide for cleaner reliable electricity generation and assist with meeting current load demand while reducing greenhouse gas emissions and the impacts of climate change - The Project has been designed to avoid and minimise environmental, biodiversity, cultural heritage and social impacts where practical through careful design and best practice environmental protection and impact mitigation. Where impacts cannot be avoided or minimised, they will be offset in accordance with applicable State and Commonwealth Government policies. Impacts to productive agricultural land have been assessed as minimal, temporary and limited to the Project's Disturbance Footprint. The Project will result in the temporary removal of 445 ha of land within the Project Area from agricultural land use for the duration of the Project. Spark Renewables has committed to a range of mitigation strategies to minimise land use conflicts with surrounding agricultural uses during the life of the Project and to ensure that the Project Area is returned to its pre-disturbance agricultural capability and land use following the conclusion of the Project.	Throughout the EIS

Provision	Relevance	Relevant EIS Section
	The Project will not impact items of European Heritage. The Project design has also been refined to conserve and protect items of Aboriginal cultural heritage. This has included refinements to the disturbance footprint to avoid areas of high archaeological sensitivity along with subsequent refinements to avoid eight (8) Aboriginal sites and an area of Potential Archaeological Deposit (PAD).	
Zone Objectives: RU1 Primary Production Relevant objectives include: - To encourage sustainable primary industry production by maintaining and enhancing the natural resource base. - To encourage diversity in primary industry enterprises and systems appropriate for the area. - To minimise the fragmentation and alienation of resource lands. - To minimise conflict between land uses within this zone and land uses within adjoining zones. - To encourage and promote the growth and diversification of economic and employment opportunities in agriculture, horticulture and tourism.	The Project is compatible with the zone objectives on the basis that: - The Project will facilitate co-existence between agriculture and renewable energy while enabling host landholders to diversify their income streams - A range of mitigation measures are proposed to be ensure that the potential land use conflicts with nearby land uses (including existing agricultural operations and the adjoining Mallee Cliffs National Park) are appropriately managed over the life of the Project, and to ensure the Project area is suitably rehabilitated and returned to its pre-Project land capability at the conclusion of the Project.	Appendix 14
Zone Objectives: C2 Environmental Conservation The objectives of the zone are: - To protect, manage and restore areas of high ecological, scientific, cultural or aesthetic values. - To prevent development that could destroy, damage or otherwise have an adverse effect on those values.	The Project design has sought to respect the objectives of the zone by avoiding the placement of Project infrastructure (associated ground disturbance) within C2 zoned land to the greatest extent practicable.	N/A
Clause 4.1 Minimum Lot Size	The Project involves subdivision to create lots smaller than specified on the Lot Size Map under the Wentworth LEP 2011. Notwithstanding this, may be granted for the subdivision under 4.38 of the EP&A Act. Further details are provided in Section 4.1.2 of the EIS.	Section 4.1.2

Provision	Relevance	Relevant EIS Section
Clause 7.4 Terrestrial Biodiversity This clause applies to land identified as “Terrestrial Biodiversity” on the Natural Resource—Terrestrial Biodiversity Map. (3) Before determining a development application for development on land to which this clause applies, the consent authority must consider whether or not the development— (a) is likely to have any adverse impact on the condition, ecological value and significance of the fauna and flora on the land, and (b) is likely to have any adverse impact on the importance of the vegetation on the land to the habitat and survival of native fauna, and (c) has any potential to fragment, disturb or diminish the biodiversity structure, function and composition of the land, and (d) is likely to have any adverse impact on the habitat elements providing connectivity on the land. (4) Development consent must not be granted to development on land to which this clause applies unless the consent authority is satisfied that— (a) the development is designed, sited and will be managed to avoid any significant adverse environmental impact, or (b) if that impact cannot be reasonably avoided—the development is designed, sited and will be managed to minimise that impact, or (c) if that impact cannot be minimised—the development will be managed to mitigate that impact.	The Project Area contains land mapped as ‘Terrestrial Biodiversity’. A comprehensive BDAR has been prepared in respect of the Project, which includes: • Identification of impacts of impacts to ecological values, including potential impacts to threatened flora and fauna species, fragmentation of habitat, changes to function and composition of vegetation communities and loss of habitat elements and connectivity. • A detailed explanation of measures to avoid and minimise impact terrestrial biodiversity to the greatest extent practical, both through Project design and the implementation of suitable mitigation and management measures • A strategy to offset the residual biodiversity impacts of the Project in accordance with the BAM. Accordingly, it is submitted that requirements of Clause 7.4 have been satisfied.	Appendix 6

Table A4.4 Other State Approvals

Other State Approval	Description
Relevant Section – of EP&A Act: Section 4.41 - Approvals that are not required Section 4.41 of the EP&A Act specifies authorisations which are not required for approved SSD	The following approvals will not be required by operation of Section 4.41: • <i>Fisheries Management Act 1994</i> – a permit under section 201, 205 or 219. • <i>National Parks and Wildlife Act 1974</i> – an Aboriginal heritage impact permit under section 90. • <i>Rural Fires Act 1997</i> – a bushfire safety authority under section 100B. • <i>Water Management Act 2000</i> – a water use approval under section 89, a water management work approval under section 90 or an activity approval (other than an aquifer interference approval) under section 91.
Relevant Section – of EP&A Act: Section 4.42 - Approvals that must be applied consistently Section 4.42 of the EP&A Act requires that several approvals, if required for a SSD, cannot be refused if a development consent is granted and must be substantially consistent with the terms of any development consent granted for the development.	The following approvals will be required to carry out the development: • <i>Protection of the Environment Operations Act 1997</i> – an EPL under Chapter 3. • <i>Roads Act 1993</i> – consent(s) under section 138 for work within a public road.
Conveyancing Act 1919 (NSW) (Conveyancing Act)	The Project involves subdivision to create new freehold lots and to facilitate the registration of long-term leases as described in Section 3.2.1, in accordance with the requirements of the Conveyancing Act. The registration of long-term leases may occur by: • registration of plans of subdivision for lease purposes, or • such other manner as may be required under the Conveyancing Act.

Appendix 5

MITIGATION MEASURES



Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B01	Native vegetation removal will be minimised through detailed design. An initial corridor was established to identify areas of highest quality vegetation. Where possible the Development Footprint has been placed within non-native and lowest quality native vegetation. Areas of high quality vegetation have been avoided. To avoid and minimise further clearing of vegetation the Development Footprint has utilised existing tracks, existing paddocks/crops and cleared areas.	Detailed design and project surveys	Appendix 6 and EIS Section 6.2
Biodiversity	B02	Buffer mapping for habitats aid in providing the construction and maintenance teams with the information necessary for OEMP and the CEMP.	Detailed design	Appendix 6 and EIS Section 6.2
Biodiversity	B03	Threatened fauna habitat removal will be minimised through detailed design.	Detailed design	Appendix 6 and EIS Section 6.2
Biodiversity	B04	The preparation and approval of a BMP prior to construction which will be prepared by a qualified ecologist with BCS consultation. Prior to clearing, the operational management component will be approved with BCS consultation. The BMP will include but not limited to: • Implementing mitigation measures. • Evaluating mitigation measures. • Objectives for monitoring. • Performance of proposed measures. • Informing an adaptive management method for additional offsets which further impacts are identified. • Remedial action.	Pre-clearing, pre-construction, construction and operation	Appendix 6 and EIS Section 6.2
Biodiversity	B05	If any unexpected threatened species (flora or fauna) are found during construction, work should be halted immediately in the vicinity of the discovery, and the onsite manager should be notified.	Pre-clearing, pre-construction, construction and operation	Appendix 6 and EIS Section 6.2
Biodiversity	B06	Barbed wire will be avoided for fencing where practicable to avoid entrapment of fauna on fences. Fences will be designed to ensure that fauna are not funnelled toward dead ends or to create barriers between areas of habitat across the Project Area.	Detailed design	Appendix 6 and EIS Section 6.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B07	Mitigation measures for harm to threatened hollow dependent fauna and live animals during pre-clearing surveys and translocation activities will be detailed in the BMP. This includes, but is not limited to: • Validation and mapping of all hollow bearing trees within the Development Footprint will be undertaken at least one month prior to vegetation removal. • Qualified and licenced ecologist or wildlife handler to rescue and re-located fauna during the pre-clearing surveys. • Protocols in place when hollow bearing trees and stick nests are being removed. Furthermore, mitigation protocols for mitigating harm to hollow or stick nest dependent threatened fauna or dependent habitat known in the Development Footprint.	Pre-clearance	Appendix 6 and EIS Section 6.2
Biodiversity	B08	During vegetation and habitat clearance work a qualified ecologist will conduct on-foot pre-clearance surveys at the start of each day prior to daily construction. This is to confirm there is no wildlife present in the area to be cleared. A qualified ecologist or qualified wildlife handler will also be present during vegetation and habitat clearing works to rescue and relocate fauna if required in the event individuals are present at the time of clearing. Additionally: • Contracted environmental representatives are to regularly conduct sweeping by regular driving through areas of the planned construction in the Development Footprint prior to planned clearance works to disturb the area and deter fauna from utilising these areas. • In the situation that an animal or threatened species is located in the construction area during other construction works, the Project Management Site Representative and Delivery Manager are to be immediately notified. Work must immediately stop within the construction area with an ecologist or a local wildlife rescuer to be brought on-site for handling and to follow the rescue procedures listed in the BMP.	During clearing and construction	Appendix 6 and EIS Section 6.2
Biodiversity	B09	Exclusion zones within the Development Footprint will be marked by a qualified surveyor on site with the boundary of clearing limits. There will be specific exclusion zones included of known areas of threatened flora and fauna habitat.	Pre-clearance, construction and early operation	Appendix 6 and EIS Section 6.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B10	Measures to mitigate the impacts associated with construction activities on retained native vegetation and habitat will include: • Prior to all vegetation removal, pre-clearance inspections will be undertaken by a qualified ecologist. • Where possible, trim vegetation rather than clear or removal whole plants. • Retain tree roots where possible. • Retain dead trees and tree trunks where practical.	Construction	Appendix 6 and EIS Section 6.2
Biodiversity	B11	The preparation and approval of a Rehabilitation Plan (RP) prior to clearing will be prepared in consultation with BCS. The RP will detail the implementation of rehabilitation in areas of the Development Footprint. The detailed design may include areas requiring rehabilitation prior to operation and areas of disturbance during the construction phase that do not require rehabilitation ahead of the operation of the Project. The RP will include but is not limited to: • Soil erosion preventative measures, re-establishing local PCTs, local native flora, habitat and detailed rehabilitation objectives which measure the outcomes for the success over the locations, target landforms and PCTs. • Restoring vegetation in riparian areas implementation measures to protect and improve areas of key habitat. • Remedial actions that have been triggered that includes notifying BCS through a Trigger Action Response Plan (TARP) with an agreement about the response. • Native indigenous species used for landscaping on pervious surfaces. • Stabilisation of exposed surfaces to prevent soil loss. • Ongoing maintenance which includes but is not limited to weed and pathogen management on rehabilitated areas. • During construction, the topsoil and subsoil generated will be used for rehabilitation and stored on-site.	Pre-construction, pre-clearance, during and post-construction	Appendix 6 and EIS Section 6.2
Biodiversity	B12	Weed monitoring and control programs are to be documented in the BMP and Trigger Action Response Plan as part of a Construction Soil and Water Manager Plan (CSWMP) detailed in the CEMP and implemented in consultation with BCS.	Pre-clearance, construction and operation	Appendix 6 and EIS Section 6.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		Additional monitoring and control measures for introduced plant establishment and spread should be implemented at and around locations utilised for sediment control structures. Weed monitoring and control programs will include adaptive management strategies for priority weed species during construction, and early operational phase.		
Biodiversity	B13	All priority weeds, as listed on the DPI NSW WeedWise website - https://weeds.dpi.nsw.gov.au/WeedBiosecurities?Areald=137 for the Wentworth (Western region), are to be managed and controlled.		
Biodiversity	B14	Preparation of a vehicle and machinery hygiene strategy protocol as part of the BMP, will be implemented during construction and operation. The strategy will include site specific locations, timings, and methods for removing soil and plant matter from vehicles and machinery. Hygiene measures stated in the strategy protocol must be applied during construction and operation to ensure vehicle and machinery hygiene.		
Biodiversity	B15	Weeds will be disposed and managed appropriately during clearing works, to stop the spread of invasive weed species.		
Biodiversity	B16	Construction of wash down stations will occur at suitable locations to wash down vehicles and employee shoes to stop the spread of weeds, pathogens (including <i>Phytophthora cinnamomi</i> , amphibian chytrid fungus, agricultural weeds, and exotic rust fungi) and the introduction of new species to the site.		
Biodiversity	B17	Refuse and personal waste generated throughout the construction and operational phases will be stored in bins and discarded in a suitable waste storage facility.	Construction and operation	Appendix 6 and EIS Section 6.2
Biodiversity	B18	Implementation of a monitoring program for feral animals which is based on performance triggers for adaptive management. If an increase in predator activity is identified, it will trigger the need for a control program based on measures related to performance. This will be outlined in the BMP with control done in consultation of host landowners.	Construction and operation	Appendix 6 and EIS Section 6.2
Biodiversity	B19	To measure impacts on bird and bat species, a Bird and Bat Adaptive Management Plan (BBAMP) will be prepared as part of the BMP. Further details are provided in Section 9.2.2 of the BDAR.	Construction and operation	Appendix 6 and EIS Section 6.2
Biodiversity	B20	Measures taken to protect birds include: Nests within 200 m of the Development Footprint will be mapped and validated prior to the erection and operation of WTGs.		

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		- Nests will be inspected prior to removal for juvenile birds and avoidance or relocation to be undertaken under the guidance of a qualified ecologist. - Regular carcass removal will be undertaken to prevent raptors being attracted to the Project Area. - Reduction of potential perching locations where possible will be a consideration of the Project design. - Power lines will be fitted with species specific measures to avoid unnecessary collisions.		
Biodiversity	B21	Clearing/works will be contained within approved areas	Construction	Appendix 6 and EIS Section 6.2
Biodiversity	B22	40 km/h speed limits on newly formed access tracks to reduce the risk of vehicle strikes to fauna specifically in areas surrounding permanent water bodies and close to farm dams, particularly after periods of rain.	Pre-construction, construction and decommissioning	Appendix 6 and EIS Section 6.2
Biodiversity	B23	A Construction Soil and Water Management Plan (CSWMP) will be prepared as a part of the CEMP. This will include but not limited to: - Procedures to minimise and manage erosion and sediment transport within the project site and offsite. - The preparation of Erosion and Sediment Control Plan (ESCP) for construction. - Procedures to manage accidental spills with the requirement to maintain spill kits. - Procedures to manage the potential of any acid sulfate soils (ASS) in accordance with the NSW Acid Sulfate Soil Guidelines (Ahern et al. 1998). - Procedures to manage potential tannin leachate. - Procedures to manage stockpiles. - Details of surface water quality monitoring procedures.	Pre-construction, construction and decommissioning	Appendix 6, Appendix 13, EIS Section 6.2, Section 6.9 and Section 6.10
Biodiversity	B24	As part of the CSWMP, a construction ESCP will be prepared. This will detail erosion and sediment control procedures that will be implemented within the Project Area in accordance with the principles and requirements of Managing Urban Stormwater – Soils and Construction, Volume 1 (Landcom, 2004).	Pre-construction and construction	Appendix 6, Appendix 13, EIS Section 6.2, Section 6.9 and Section 6.10

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B25	To minimise and avoid any impacts threatened species and water quality, the following procedure will be implemented: • The total bare earth exposed at any time will be minimised. • Rehabilitation strategies to be implemented to minimise dust regeneration, soil erosion and weed incursion. Rehabilitate all areas of the Project Area that are not proposed for future disturbance post construction and when decommissioning.	Construction and decommissioning	Appendix 6, Appendix 13, EIS Section 6.2, Section 6.9 and Section 6.10
Biodiversity	B26	Prior to, during and following construction and decommissioning, a surface water monitoring program will be prepared and implemented as part of the CSWMP.	Pre-construction, construction and decommissioning	Appendix 6, Appendix 13, EIS Section 6.2, Section 6.9 and Section 6.10
Biodiversity	B27	As part of the CSWMP, Project specific procedures and controls will be prepared and implemented. This is to minimise the risk of spills, litter and leaks entering downstream waterways and/ or leaking into the soil and groundwater table. The CSWMP will include, but is not limited to: • All liquids, chemicals and fuels to be stored in a sealed bunded area and stored on level ground within the construction compound. • Appropriate storage of equipment and hazardous substances during construction and operation. • Designated areas with spill capture and management controls for refuelling and minor activities. • An emergency spill response procedure will be prepared in the CSWMP. • Regular water quality checks to be carried out at waterways within proximity to work being carried out. • Installation and maintenance of control measures such as gross pollutant traps and silt fencing.	Construction and decommissioning	Appendix 6, Appendix 13, EIS Section 6.2, Section 6.9 and Section 6.10

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B28	The management of stockpiles to minimise the transport of dust, sediment and leachate runoff. This will include, but is not limited to: • Minimising time that the stockpiles are left exposed, the number of stockpiles and the areas used for stockpiles. • Designating stockpiles away from waterways, drainage lines and areas where they would be susceptible to wind erosion. • Establishing appropriate controls for sediment, stabilising stockpiles and suppressing dust as required.	Construction	Appendix 6 and EIS Section 6.2
Biodiversity	B29	Measures to avoid ingress from concrete waste into downstream waterways will be incorporated into the detailed design of concrete batch plants and outlined in the CEMP.	Construction and decommissioning	Appendix 6 and EIS Section 6.2
Biodiversity	B30	Stormwater runoff increases during the Project operation will be managed through, but not limited to: • The design of permanent drainage and water management to meet the Project performance outcomes of no pollution of water. • Control procedures and maintenance of access tracks and scour protection to minimise erosion and impacts on water quality. • Potential impacts on channel erosion and scour to be monitored at receiving drainage channels and waterways downstream.	During Operation	Appendix 6, Appendix 13, EIS Section 6.2, Section 6.9 and Section 6.10
Biodiversity	B31	Within the detailed design, if the Project excavation exceeds the proposed maximum depth below ground level, potential impacts to GDEs will need to be re-assessed by a qualified hydrogeologist.	Detailed design and construction	Appendix 6, Appendix 13 and EIS Section 6.2 and Section 6.9
Biodiversity	B32	The Project will implement the following permanent bush fire protections: • Asset Protection Zones (APZs) around each WTG. • APZs around the BESS and substations. • An APZ around the operation and maintenance facility (to be constructed to a BAL-12.5 standard). • Perimeter firebreak. • Ongoing vegetation management. • Access for emergency response vehicles.	Construction and operation	Appendix 6 and Appendix 17 and EIS Section 6.2 and Section 6.13.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		• A permanent, dedicated firefighting water source. • Controls on Project actions to prevent bush fire ignition. • Fire suppression systems in substations, BESS and WTGs. • A Project fire fighting vehicle.		
Biodiversity	B33	Construction and Operation Bush Fire Emergency Management Plans will be developed in accordance with Planning for Bush Fire Protection (PBP) (NSW Rural Fire Service (RFS), 2019) and in consultation with the NSW RFS (including any requirements in relation to aerial firefighting). These plans will identify all pertinent bush fire risk and mitigation strategies relating to the construction and operation of the Project, including those listed in B29 and: • Actions to prevent bush fire ignition or spread from Project activities. • Work that will not be conducted during total fire bans. • Appropriate safety procedures and storage location for any fuels or other hazardous or flammable materials. • Protocols in place to alert NSW RFS regarding work with the potential to cause a fire to the surrounding vegetation. • Protocols and triggers to shut down WTGs with an approaching fire. • Measures relating to the requirements of NSW RFS or other authorities regarding the management risk to aerial firefighting in the region. • Escalation notifying protocols with contact details for the local NSW RFS Fire Control Centre, local fire brigades, CASA, Air Services Australia, and all other relevant people and / or organisations who will be notified of an emergency at the Project Area. • The locations of any firefighting water along with alternative water supplies that may be available in the case of an emergency (including any other fire suppression equipment held on and off site). • Bush fire emergency planning that includes evacuation routes, evacuation triggers and when and where to take refuge.	Construction and operation	Appendix 6 and Appendix 17 and EIS Section 6.2 and Section 6.13.2
Biodiversity	B34	To address noise that is likely to exceed acceptable noise management levels (NMLs) a Construction Noise Management Plan will be implemented as a component of the CEMP.	Construction and operation	Appendix 6 and Appendix 10 and EIS Section 6.2 and Section 6.6

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B35	Standard noise mitigation measures will be implemented were reasonably practicable, including the following: • Work limited to standard hours of construction unless permitted by the development consent. • Adopt low-noise and plant equipment, where feasible plant and equipment to be fitted out with silencing devices. • Consider using less intrusive alternatives to reverse beepers such as ‘squawker’ or broadband’ alarms. • All plant and equipment to be well maintained. • Warrant equipment mufflers are functioning correctly and effectively. • When feasible, employ construction techniques that produce less vibration and are quieter. • Equipment that is on-site be turn-off when not in use. • Only have necessary equipment on-site, including only having necessary size and powered equipment for tasks. • Noisy activities will be concentrated at one location and relocate as soon as possible. • Vehicle movements limited and avoided whenever feasible. • Provide training to acquaint employees with noise sensitivity. • For concentrated, noise-intensive activities implemented temporary construction noise barriers or earth mounds. • Install enclosures around noisy mobile and fixed equipment were reasonably practicable. • Where reasonably practicable avoid coincide operation of two or more noisy plants close to receivers. • Optimise the offset distance between sensitive receivers and noisy plants. • Implement parking, loading/unloading areas and traffic flow management to minimise reversing movements. • Implement routinely monitoring of construction noise levels ensure effectiveness of mitigation measures and whether revision of measures in required.	Construction and operation	Appendix 6 and Appendix 10 and EIS Section 6.2 and Section 6.6

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Biodiversity	B36	Standard vibration mitigation measures from the Assessing Vibration: a technical guideline (DECC, 2006) will be implemented where reasonably practicable, including the following: • Where reasonably practicable selecting lower-impact equipment or techniques were feasible. • Operating vibration-causing plant and equipment during the least sensitive time of day where reasonably practicable. • Avoid coincide operation of vibration-causing operations. • High-vibration activities to be located as far away from sensitive receiver areas as possible. • All plant and equipment to be well maintained. • Intensive vibration operation to not occur within the recommended safe set back distances. • Receivers to be notified regarding the nature of construction phases and vibrations-generating operations.	Construction and operation	Appendix 6 and Appendix 10 and EIS Section 6.2 and Section 6.6
Biodiversity	B37	Air quality management measures will be implemented and include but is not limited to: • Haul routes clearly marked. • Maintenance and watering of haul routes. • Vehicle speed restriction. • Immediate clean-up of any material spillage. • During adverse weather conditions e.g. during hot and windy conditions weather will be monitored.	Construction	Appendix 6 and Appendix 15 and EIS Section 6.2 and Section 6.11
Biodiversity	B38	Exclusion zones will be set up at the limit of clearing	construction	Appendix 6 and EIS Section 6.2
Heritage	ACH01	To mitigate harm to impacted sites, it is recommended that a community salvage program for the sites be initiated. Although harm will occur as part of this activity, the salvage and relocation of these sites will minimise the harm that would occur as part of the proposed works, either directly or indirectly. Four of the artefact sites will be harmed through this community salvage program.	Prior to commencement of construction	Appendix 7 and EIS Section 6.3
Heritage	ACH02	Before any works occur, Spark Renewables should develop an Aboriginal Cultural Heritage Management Plan (ACHMP) to mitigate and manage impacts to all Aboriginal heritage sites	Prior to commencement of	Appendix 7 and EIS Section 6.3

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		within and directly adjacent to the Project Area. These sites are protected under the Section 90 of the NSW NPWS Act 1974. The ACHMP should form part of the Project's construction environmental management plan and the conditions contained within it should apply to the construction, operational and decommissioning phases of the Project.	construction	
Heritage	ACH03	It is recommended that the ACHMP contains the following management and mitigation conditions: A description of the measures that would be implemented to avoid impacts to sites 46-3-0227 () and 46-3-0236 (Mallee Windfarm PAD) by the proposed development. This will include a no-works and no-access area to protect sites 46-3-0227 () and 46-3-0236 (Mallee Windfarm PAD). • A methodology for the community collection / surface salvage of 4 artefact sites within the Disturbance Footprint that will be harmed by the proposed development. • A strategy for the long-term management of all Aboriginal objects collected during the community collection / surface salvage program. The strategy should include provisions for reburial at a location nominated by Registered Aboriginal Parties adjacent to the Project Area. The strategy must be developed in consultation with Registered Aboriginal Parties. • Provisions for monitoring any impacts to and protecting World Heritage and National Heritage properties in the local area. • Provisions for protecting Aboriginal heritage items outside the Disturbance Footprint. • Include protocols for managing the discovery of human remains and previously unidentified heritage items within and adjacent to the approved Disturbance Footprint. • Contain a contingency plan and reporting procedure if Aboriginal heritage items within or outside the approved Disturbance Footprint are damaged. • Include protocols for conducting further archaeological and heritage assessment in any disturbance areas where this assessment has not already been carried out. • Ensuring any workers on-site receive suitable heritage inductions prior to carrying out any work on site. • Maintain and manage reasonable access for Aboriginal stakeholders to heritage items on site.	Pre-construction, construction and decommissioning	Appendix 7 and EIS Section 6.3

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		- Provide for ongoing consultation with Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site. - Contain a program to monitor and report on the effectiveness of these measures and any heritage impacts of the Project.		
Heritage	ACH04	In the event that unexpected finds occur during any activity within the Project Area, all works in the vicinity must cease immediately. The find must be left in place and protected from any further harm. Depending on the nature of the find, the following processes must be followed: If, while undertaking the activity, an Aboriginal object is identified, it is a legal requirement under Section 89A of the NPW Act to notify Heritage NSW, as soon as possible. If, human skeletal remains are encountered, all work must cease immediately and NSW Police must be contacted, they will then notify the Coroner's Office. Following this, if the remains are believed to be of Aboriginal origin, then the Aboriginal stakeholders and Heritage NSW must be notified.	Pre-construction, construction and decommissioning	Appendix 7 and EIS Section 6.3
Heritage	ACH05	It is recommended that Spark Renewables continues to inform Aboriginal stakeholders about the management of Aboriginal cultural heritage within the Project Area throughout the life of the Project. The consultation outlined as part of this ACHA is valid for a period of 6 months and must be maintained after this by the Proponent for it to remain continuous and comply with Consultation Requirements (DECCW 2010b).	Pre-clearance, construction, operation and decommissioning	Appendix 7 and EIS Section 6.3
Heritage	ACH06	A copy of the final ACHA should be forwarded to all Aboriginal stakeholder groups who have registered an interest in the Project.	Prior to commencement of construction	Appendix 7 and EIS Section 6.3
Heritage	HH01	An unexpected heritage finds protocol will be established and included in the environmental management policies for the Project. All project team members and construction contractors will undertake a heritage specific induction to support the use of this protocol.	Prior to commencement of construction	Appendix 7 and EIS Section 6.3
Heritage	HH02	If historical archaeological relics not assessed or anticipated by this report are found during undertaking of the works, all works in the immediate vicinity are to cease immediately and Heritage NSW be notified. A qualified archaeologist is to be contacted to assess the situation and consult with Heritage NSW regarding the most appropriate course of action.	Pre-clearance, construction, operation and decommissioning	Appendix 8 and EIS Section 6.4
Heritage	HH03	Should the development be altered significantly from the proposed design, then a	Pre-clearance,	Appendix 8 and EIS

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		reassessment of the heritage impact may be required. This includes any impacts not explicitly stated in the SoHI and the installation of any subsurface services.	construction, operation and decommissioning	Section 6.4
Heritage	HH04	Provide a copy of the SoHI to relevant stakeholders including the Wentworth Historical Society and Heritage NSW.	Prior to commencement of construction	Appendix 8 and EIS Section 6.4
Landscape and visual	LV01	WTGs will have a matte white, non-reflective finish and consist of three (3) blades with uniformity of colour, design, rotational speed, height and rotor diameter throughout.	At all times during the carrying out of the development	Appendix 9 and EIS Section 6.5
Landscape and visual	LV02	With respect to transmission lines, the following mitigation methods would apply: • Where possible underground cabling is to be used to connect WTGs to the electricity grid. • Utilise existing transmission lines where possible. • The route for any proposed overhead transmission lines should be chosen to reduce visibility from surrounding areas. • Plan route to minimise vegetation loss. • Use of subtle colours and a low reflectivity surface treatment on power poles to ensure that glint is minimised.	At all times during the carrying out of the development	Appendix 9 and EIS Section 6.5
Landscape and visual	LV03	With respect to internal access roads, the following mitigation methods would apply: • Where possible utilise or upgrade existing roads, trails or tracks to provide access to the proposed WTGs to reduce the need for new roads. • Allow for the provision for downsizing roads or restoring roads to existing condition following construction where possible. • Any new roads must minimise cut and fill and avoid the loss of vegetation. • Utilise local materials where possible and practical.	At all times during the carrying out of the development	Appendix 9 and EIS Section 6.5
Landscape and visual	LV04	With respect to ancillary infrastructure, the following mitigation methods would apply: • Siting to ensure minimal vegetation loss. • Consideration should be given to controlling the type and colour of building materials used. Where possible a recessive colour palette is to be used which blends into the existing landscape.	At all times during the carrying out of the development	Appendix 9 and EIS Section 6.5

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		- Avoidance of unnecessary lighting, signage on fences, logos etc. - Any proposed buildings to be sympathetic to existing architectural elements in the landscape. - Minimise cut and fill and loss of existing vegetation throughout the construction process. - Boundary screen planting is an effective mitigation method which could be utilised to ameliorate potential visual impacts resulting from the construction of ancillary structures with a small vertical scale such as collector substations, switching stations and the operations facilities building.		
Landscape and visual	LV05	With respect to lighting of ancillary infrastructure, the following principles will be applied: - If used, air navigation lighting should be spaced around the outer edges of the wind farm. Lights are not required on every tower. Where possible, careful consideration should be given to the selection of WTGs requiring lighting to avoid unnecessary impact upon residences. - Treatment of the rear of blades with a non-reflective coating to reduce reflection off the rotating blade at night. - Use of the lowest candela intensity allowed by CASA. - According to the CASA requirements, shielding may be provided to restrict the downward spill of light to the ground plane by ensuring that no more than 5% of the nominal light intensity should be emitted at or below 5° below horizontal. - No light should be emitted at or below 10° below horizontal.	At all times during the carrying out of the development	Appendix 9 and EIS Section 6.5
Noise and Vibration	NV01	The predicted operational WTG noise levels will be updated with the final layout and sound power levels of the final WTG model selected for the Project to verify compliance with the criteria in accordance with the Noise Bulletin prior to construction.	Prior to construction	Appendix 10 and EIS Section 6.6
Noise and Vibration	NV02	The predicted operational ancillary infrastructure noise levels will be updated with the final design and sound power levels of the final equipment selection to verify compliance with the criteria in accordance with the NPfI prior to the commencement of construction.	Prior to operation	Appendix 10 and EIS Section 6.6
Noise and Vibration	NV03	An operational noise management plan will be prepared which identifies how compliance with the Project's operational noise limits will be demonstrated, including details of testing procedures and reporting time frames following commencing of operation of the Project.	Prior to operation	Appendix 10 and EIS Section 6.6

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Noise and Vibration	NV04	Following construction, compliance monitoring will be conducted to satisfy the Noise Bulletin including evaluation of special noise characteristics.	Prior to operation	Appendix 10 and EIS Section 6.6
Noise and Vibration	NV05	Notwithstanding the anticipated compliance, and mitigation measures above, Spark Renewables will provide consideration to available contingency strategies to reduce noise levels, if require. The following summarises the two (2) key measures available to reduce the noise: • Procurement contract: The procurement contract for the supply of WTGs to the Project will typically include specifications concerning the allowable total noise emissions from the WTG, and the permissible characteristics of the WTG. In the event that WTG emissions are found to exceed the contracted values, the supplier will be required to implement measures to reduce the noise to the contracted value. This can include measures to rectify manufacturing defects or appropriate control settings. • Noise reduction management strategy: modern wind farms include control systems which enable the operation of the WTGs to be varied according to environmental constraints. Specifically, variable pitch WTGs as proposed for this Project include control functions which enable the noise emissions of the WTGs to be selectively controlled; by adjusting the pitch of blade, the noise emissions of the WTG can be reduced. In addition, where required, the WTGs can be selectively shut down under relevant wind speeds and directions. These types of control measures can be used separately, or in combination, to achieve noise reductions for predetermined wind speed ranges and directions.	Prior to construction	Appendix 10 and EIS Section 6.6
Noise and Vibration	NV06	A Construction Noise and Vibration Management Plan (CNVMP) will be prepared and implemented for the Project. Any future CNVMP will include site and process specific noise management work practices designed to mitigate the impact of construction noise activities, including traffic noise. Any targeted noise consultation requirements will be outlined.	Prior to construction	Appendix 10 and EIS Section 6.6
Social	S01	Continue to develop the AES in accordance with the objectives and commitments outlined within the SIA.	At all times during the carrying out of the development	Appendix 11 and EIS Section 6.7
Social	S02	Continue to develop a CBS in accordance with the objectives and commitments outlined within the SIA.	At all times during the carrying out of the development	Appendix 11 and EIS Section 6.7

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Social	S03	Continue to develop an IAPP in accordance with the objectives and commitments outlined within the SIA.	At all times during the carrying out of the development	Appendix 11 and EIS Section 6.7
Social	S04	Continue to implement the CSEP.	At all times during the carrying out of the development	Appendix 11 and EIS Section 6.7
Traffic	TT01	To improve the awareness of the local residents and community of the Project and the associated Project traffic, and assist in managing the potential traffic impacts, it is recommended that a community information and awareness program be implemented for the Project.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT02	Undertaken prior to construction commencing and then at regular intervals during the construction period, a program of consultation should be initiated to ensure local residents are aware of construction traffic accessing the Project, and any specific traffic management issues or measures to be implemented. This program may include elements of the following as appropriate to the relevant phase of Project works: • Press releases in local newspapers. • Specific emails, newsletters and individual letter drops to neighbouring residents along the key transport routes for the Project (in particular Arumpo Road). • Provision of a website providing details of the status of works and contact details for complaints or enquiries. • Provide key contact personnel and contact details, including out of hours contact information to residents, schools, public activities and business operating alongside the local route. • Neighbours of the wind farm will be consulted and notified regarding the timing of major deliveries which may require additional traffic control and disrupt access.	Prior to construction	Appendix 12 and EIS Section 6.8
Traffic	TT03	The proposed use of OSOM vehicles for the Project will require the obtainment of suitable permits from the National Heavy Vehicle Regulator (NHVR). This replaces the approvals that were previously granted from Transport for NSW and councils. Applications are to be submitted to the NHVR, which identify the proposed OSOM loads, vehicle combinations and transport routes.	Prior to and during construction	Appendix 12 and EIS Section 6.8

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Traffic	TT04	In addition to the required permits, it is proposed that a detailed Traffic Management Plan (TMP) be developed for the Project as part of the Construction Traffic Management Plan (CTMP) or the decommissioning management plan that should be developed before construction or decommissioning commences.	Prior to construction and decommissioning	Appendix 12 and EIS Section 6.8
Traffic	TT05	This TMP will provide details of the management measures to be implemented to govern the required Oversized and over mass (OSOM) vehicle movements for the Project. This TMP should include, but not be limited to: • Procedures for escorts of OSOM vehicles. • Traffic control plans for temporary road closures to allow vehicles to cross to the other side of the carriageway where required. • Safe work methods and strategies for working on roadways. • Indicative OSOM haulage schedule, including dates and times for transporting loads. • Location of suitable rest stops and vehicle layover areas along the proposed transport routes. • Communication strategy to affected communities. • Notification and consultation of key stakeholders including: ○ Police and emergency services. ○ Local Councils along the route. ○ Public and school bus operators that may be affected. • Advertising in local newspaper and media releases. • Contact details of foreman or project manager throughout operations to be shared with emergency services and road authorities. • Timing of operations and measures to avoid commuter peaks and school peaks through populated areas where practicable. • Consideration of cumulative impacts of other projects along the route, based on updated information that is available at that time. • Identification of layby areas for driver breaks and co-ordination of OSOM on site arrivals.	Prior to construction and decommissioning	Appendix 12 and EIS Section 6.8

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Traffic	TT06	The would be finalised prior to issue of the Construction Certificate. The purpose of the Driver Code of Conduct is to minimise the impact of individual driver behaviours on all users of the public roads forming part of the site access routes. The Driver Code of Conduct outlines acceptable behaviour for all vehicle drivers in connection with the Project, including: • General requirements (e.g. site induction requirements). • Travelling speeds and safe driving practices, particularly through residential areas and school zones. • Fatigue management. • Adherence to designated transport routes and heavy vehicle noise. • Public complaint resolution and penalties and disciplinary action.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT07	Prior to involvement in the Project, vehicle drivers will be required to read the Driver Code of Conduct and acknowledge their compliance with it throughout their involvement in the Project. The expectations of the Driver Code of Conduct will be established in the Project induction and will be reiterated through pre-starts. Heavy vehicle haulage routes will be communicated to haulage contractors during the procurement stage and requirements of the Drivers Code of Conduct, route use and compliance included in their contracts.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT08	The Driver Code of Conduct includes an element of fatigue management. This includes the requirements for drivers on the Project to manage their fatigue, be suitably rested and for operators of heavy vehicles to comply with the Chain of Responsibility legal requirements under the National Heavy Vehicle Law (Heavy Vehicle (Adoption of National Law) Act 2013). The fatigue management standards, including those outlined in the Chain of Responsibility, will be consistent with the standards outlined in the Fatigue Management Plan.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT09	The proposed site access points provide good access and egress around the site for emergency services. No additional emergency access points are expected to be required proposed.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT10	In addition to the external network, it is recommended that mitigation measures targeted at safety and reducing the impact of Project traffic also be implemented for the on-site, internal vehicle circulation facilities. Such measures could include:	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		- On-site speed limits / restrictions along internal access tracks. - Appropriate dust suppression measures. - Implementation of condition inspection and maintenance program for on-site access tracks to ensure safe for use by Project traffic. - Completion of all loading and unloading movements to occur within the designated work areas. No access track area or external streets or roads are to be used for material storage at any time. - Sufficient car parking is to be provided on-site to ensure vehicles do not park on the surrounding road network. - All car parking and loading areas to be designed in accordance with the relevant Australian Standard (2890 series) and Council requirements.		
Traffic	TT11	Under the safe systems approach road safety is generally improved by focussing on Safe Roads, Safe People, Safe Vehicles and Speed Management.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT12	Contractors are to ensure that all vehicles used are road worthy and in good working condition with lights, brakes, tire pressure etc.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT13	Safe Road Use can be achieved by education of workers and communicating policies of the work site. Worker site induction should include driver education of the local road conditions and an adoption of a “drivers code of conduct”. This should include: - Driving to the conditions on unsealed roads. - Avoid speeding and other dangerous behaviour. - Identification and communication of known road crash cluster locations. - Identification and warning of when roads may be affected by black ice, road damage (potholes) and incidents. - A drug and alcohol policy to reduce incidents of drunk and drug driving. - Additional caution of wildlife when driving at dawn and dusk. - Measures to reduce the risk of workers driving while tired. - Training drivers to respect private property and farm gates.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Traffic	TT114	The proposed use of shuttle bus services for off-site workers would reduce the number of workers driving from the site when tired, and the provision of these services for off-site workers will be investigated. However, as off-site workers (approximately 25% off total construction workforce) are likely to be dispersed around the surrounding localities, it is likely that some workers will need to travel to site independently.	Construction and Decommissioning	Appendix 12 and EIS Section 6.8
Traffic	TT15	As part of managing the Project, workers would be required to drive to the conditions, respect speed limits, and abide by the Drivers Code of Conduct	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Traffic	TT16	It is recognised that the Project may have an impact on sensitive land uses such as schools and residential precincts within townships along the identified OSOM haulage and material delivery routes. To minimise the impacts on schools it is recommended that temporary road closures for OSOM movements should be avoided during school peaks. To this end vehicle layovers should be identified along the proposed haulage routes to allow vehicles to wait until appropriate times for travel.	Construction	Appendix 12 and EIS Section 6.8
Traffic	TT17	Speed reductions, use of fog lights during periods of low visibility, cessation of work and site shutdowns will be implemented as required during periods of adverse weather.	At all times during the carrying out of the development	Appendix 12 and EIS Section 6.8
Water	WR01	For the construction phase of the Project, measures are to be captured in the CEMP. This would include the preparation of a Construction Soil Water Management Plan (CSWMP) and Erosion and Sediment Control Plan (ESCP).	Construction	Appendix 13 and EIS Section 6.9
Water	WR02	For the operational phase of the Project, the measures outlined are to be documented in the Bush Fire and Emergency Management Operations Plan (BFEMOP) and in the Operational Environmental Management Plan (OEMP). The OEMP will address potentially adverse impacts on the receiving environment surface water quality and flooding during the operational phase. The BFEMOP will outline the flood hazards, evacuation and warning procedures to ensure the safety of all onsite.	Operation	Appendix 13 and EIS Section 6.9
Water	WR03	The CSWMP and ESCP should be amended and incorporated into a Decommissioning and Rehabilitation Management Plan.	Prior to decommissioning	Appendix 13 and EIS Section 6.9

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Water	WR04	Maintaining the natural state of the drainage flow paths whenever possible. Internal access tracks, where crossing waterways or streams, will be designed for 10% AEP design flow and may include compacted rock causeways to provide low maintenance access with limited impact on the waterway or culvert structures.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Water	WR05	The design and construction of cable crossings and all internal access tracks crossing waterways within the proposed disturbance footprint should be generally in accordance with the Guidelines for controlled activities on waterfront land – riparian corridors (Guidelines for watercourse crossings on waterfront land and Guidelines for laying pipes and cables in watercourses on waterfront land).	Prior to construction	Appendix 13 and EIS Section 6.9
Water	WR06	A CSWMP will be prepared to outline measures to manage soil and water impacts associated with the construction and decommissioning works.	Prior to construction	Appendix 13 and EIS Section 6.9
Water	WR07	Creation of catch/diversion drains and sediment fences at the downstream boundary of construction activities where practicable to support containment of sediment-laden runoff.	Construction	Appendix 13 and EIS Section 6.9
Water	WR08	Erosion and sediment control measures will be implemented and maintained at all work sites in accordance with the principles and requirements in Managing Urban Stormwater – Soils and Construction, Volume 1 and Volume 2D of Blue Book.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Water	WR09	Measures to minimise/manage erosion and sediment transport both within the construction footprint and offsite including requirements for the preparation of (ESCP) for all progressive stages of construction and decommissioning.	Construction and Decommissioning	Appendix 13 and EIS Section 6.9
Water	WR10	The best practice principles for stormwater and sediment control outlined in the Managing Urban Stormwater Blue Book guidelines will be incorporated into the design, construction and operation phases as part of a SWMP and ESCP.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Water	WR11	BESS components will be located on hardstand areas and will be aligned with local overland flow paths to prevent flows being redirected which could lead to localised increased in flood level and higher risk of scour and erosion.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Water	WR12	Inspection and monitoring requirements including receiving water quality monitoring.	Operation	Appendix 13 and EIS Section 6.9
Water	WR13	Maintenance of stormwater infrastructure including any stormwater treatment devices (e.g. bioretention basins and culverts (e.g. clearing debris).	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Water	WR14	Maintenance of suitable ground cover and grassed table drains near access tracks to minimise the potential for erosion and export of sediment.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Water	WR15	Flooding measures: - During construction design flood risk will be considered and include, as a minimum, a review of temporary infrastructure layouts and arrangements to a) avoid and/or minimise obstruction of overland flow paths, b) limit the extent of flow diversion, c) include stormwater management controls to avoid/minimise the impact of flooding, and d) consider measures to mitigate alterations to local runoff conditions due to on-site works and activities. - During construction, design stockpiles would be located outside areas anticipated to flood and experience velocities above 0.5 m/s. Where reasonable/feasible located outside the mapped 10% AEP flood extents. - Based on the Project design utilised for this assessment, temporary construction compounds, laydown areas, concrete batching plants and the TWA Facility have been located away from areas where depths of flow are deeper than 250 mm during the modelled 1% AEP event. This mitigation will persist if any future design revisions occur. - Flood emergency management measures for the construction phase would be prepared and included in applicable environmental and safety management documentation i.e. the CEMP, CSWMP and ESCP noted above, as relevant. - As a minimum this would include identification of flood related risks and their management, and processes to monitor and communicate weather warnings. In this regard, construction staff will have access to the following facilities for early severe weather warnings: The Bureau of Meteorology's "MetEye" and The Bureau of Meteorology's "RSS feeds". Radio and Bureau of Meteorology information will be reviewed frequently for potential major storm events and to ensure on-site personnel and visitors are aware of potential flooding events and road closures.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		- Flood emergency management measures for the operational phase would be prepared and included in applicable environmental and safety management documentation i.e. the BFEMOP and OEMP noted above, as relevant. In this regard, operations staff will have access to the following facilities for early severe weather warnings: The Bureau of Meteorology's "MetEye" and The Bureau of Meteorology's "RSS feeds". Radio and Bureau of Meteorology information will be reviewed frequently for potential major storm events and to ensure on-site personnel and visitors are aware of potential flooding events and road closures - Evacuation routes will be designed during the detailed design phase and will consider zones of flood hazard. These routes would be included in applicable environmental and safety management documentation i.e. the BFEMOP and OEMP noted above, as relevant. - Flood behaviour as a result of the Project would be confirmed during detailed design, inclusive of climate change. In this regard foundations for the WTGs and transmission lines, their footings are located away from areas of erosive behaviour such as flood depths of 0.3 m and flow velocities greater than 1.5 m/s. Detailed design of the Project will consider the results of the 1% AEP scenario. - Based on the Project design utilised for this assessment, this mitigation is achieved and should persist if any future design revisions occur.		
Water	WR16	Stream stability, riparian health and fish passage measures: - Infrastructure with the potential to cause pollution to watercourses in the event of flooding, such as inverters and battery storage, will be located with a minimum 300 mm freeboard above the maximum 1% AEP flood level. Given the shallow depths across the Project Area, raising these small fill pads is highly unlikely to result in any adverse impacts offsite. - No sensitive infrastructure (e.g., substation, BESS) will be placed within 20 m of any Strahler 3 or above order streams. Sensitive infrastructure will be placed outside the 0.2% AEP flood extent with a minimum 500 mm freeboard to the 1% AEP flood level. Based on the Project design utilised for this assessment, this mitigation is achieved and should persist if any future design revisions occur. - Controls for receiving watercourses which may include designation of 'no go' zones for construction plant and equipment.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Water	WR17	A water sourcing and monitoring strategy to manage potential availability impacts on downstream water users and ensure compliance with legislation relating to water extraction.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Water	WR18	Watercourse crossings are to achieve flood immunity requirements as follows: • Adequately sized pipe drainage and/or floodways are to be provided to allow for the conveyance of overland flow under and/or across the access tracks. • Adequate erosion protection across and downstream of the access track crossings should be provided. • An energy dissipator should be included at the pipe outlet or downstream of the floodway to prevent potential erosion undermining the pipe/culvert and batters. • Planned works are to be scheduled for forecasted dry weather periods.	At all times during the carrying out of the development	Appendix 13 and EIS Section 6.9
Soil, Land and Agricultural	SAL01	During the life of the Project, agricultural land use will continue within the Project Area outside of the Disturbance Footprint.	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL02	At the time of decommissioning, agricultural land use will be re-established over all land removed from agriculture (unless otherwise agreed with the landholder and/or regulatory authorities).	Decommissioning	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL03	At the time of decommissioning, the Project Area will be returned to an agricultural productivity that is approximately equivalent of pre-Project status.	Decommissioning	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL04	All soil that is proposed to be disturbed during the Project will be handled in accordance with the strategy outlined in Section 6.2.1 of the SLAIA (Appendix 14) and a site Soil Stripping and Management Plan prepared for the Project that includes soil management measures relating to stripping, stockpiling, reuse, and sourcing, as required. This will inform the CEMP, OEMP and a DRP.	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL05	All soil resources are to be managed throughout construction, operation and decommissioning phases of the Project in accordance with an ESCP which should include recommendations outlined in Section 6.2.1 of the SLAIA (Appendix 14).	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL06	All remaining infrastructure to be capped with a suitable depth of soil at the time of decommissioning with material of suitable texture and preparation to mitigate long term wind erosion and restore to pre-disturbance LSC classes (generally 0.5 m).	Decommissioning	Appendix 14 and EIS Section 6.10

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Soil, Land and Agricultural	SAL07	At the time of decommissioning, disturbed land will be returned to an equivalent LSC class following the end of life for the Project, through site rehabilitation and good soil management practices as outlined in Section 6.2 of the SLAIA (Appendix 14).	Decommissioning	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL08	All soil resources are to be managed throughout construction, operation and decommissioning phases of the Project in accordance with an ESCP which should include recommendations outlined in Section 6.2.1 of the SLAIA (Appendix 14).	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL09	Agriculture infrastructure and property improvements will be retained and maintained to accommodate continued agricultural operations within the Project Area.	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL10	Pest species will be managed in accordance with measures outlined in Section 5.4.1 of the SLAIA (Appendix 14), and a Weed and Pest Management Plan prepared for the Project.	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Soil, Land and Agricultural	SAL11	Biosecurity will be managed in accordance with measures outlined in Section 5.4.2 of the SLAIA (Appendix 14) and an Agricultural Biosecurity Management Plan prepared for the Project.	At all times during the carrying out of the development	Appendix 14 and EIS Section 6.10
Air Quality	AQ01	Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ02	Display the name and contact details of person(s) accountable for air quality and dust issues on the Project Boundary and the Project access points.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ03	As part of the CEMP, detail the air quality control measures and procedures to be undertaken during construction, including: • Air quality and dust management objectives that are consistent with relevant regulatory authority guidelines. • Identification of potential sources of dust. • Mitigation measures to minimise dust impacts on sensitive receptors (including but not necessarily limited to AQM05 to AQM11 below). • Contingency plans to be implemented in the event of non-compliances and/or complaints about dust.	Construction	Appendix 15 and EIS Section 6.11

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Air Quality	AQ04	Maintain regular communications with Iluka Resources Ltd in regard to Euston Critical Minerals Project to ensure plans are co-ordinated, dust and particulate matter emissions are minimised, and interactions of off-site transport/deliveries which might be using the same strategic road network routes are considered. Similarly, regular communications with Squadron Energy in regard to Gol Gol Renewable Energy Hub are also desirable.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ05	Areas of exposed surface are to be minimised throughout the construction site planning and programming, to reduce the area of potential construction dust emission sources.	Construction and Decommissioning	Appendix 15 and EIS Section 6.11
Air Quality	AQ06	Control measures, such as compaction stabilisation or covering will be implemented in order to minimise dust from stockpile sites.	Construction and Decommissioning	Appendix 15 and EIS Section 6.11
Air Quality	AQ07	Dust suppression measures, such as the use of water carts or soil binders, will be used in any unsealed surfaces and other exposed areas as required.	Construction and Decommissioning	Appendix 15 and EIS Section 6.11
Air Quality	AQ08	Further stabilisation should be considered for high-use access tracks, particularly those in closer proximity to sensitive receptors such as residential dwellings. Stabilisation may include sealing or the use of lower silt content material such as gravel.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ09	All trucks should cover their loads when transporting materials that are potential sources of wind-blown dust, to and from the Project Area.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ10	Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	Construction and Decommissioning	Appendix 15 and EIS Section 6.11
Air Quality	AQ11	Activities that generate dust will be avoided or modified during high wind periods.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ12	Work activities will be reviewed if the dust suppression measures are not adequately restricting dust generation.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ13	Ensure rumble grids and wheel washes are placed at all site exit points and that gravel or sealed surfaces are maintained between the wheel wash and the exit to avoid recontamination of tyres.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Air Quality	AQ14	Construction plant and equipment will be maintained in good working condition to limit impacts on air quality.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Air Quality	AQ15	Where practicable, vehicles will be fitted with pollution reduction devices and switched off when not in use.	At all times during the carrying out of the development	Appendix 15 and EIS Section 6.11
Economic	ECO01	Prior to commencing construction, Spark Renewables will prepare an AES for the Project in consultation with relevant stakeholders.	Prior to construction	Appendix 22, Appendix 11, Section 6.7 and Section 12 of the EIS.
Economic	ECO02	Spark Renewables will develop a Community Shared Benefit Strategy which will include details of any Planning Agreement with Wentworth Shire other community benefit initiatives.	Prior to construction	Appendix 22, Appendix 11, Section 6.7 and Section 12 of the EIS
Preliminary Hazard Assessment	PHA01	The BESS will be tested in accordance with UL9540A.	Construction	Appendix 16 and EIS Section 6.13.1
Preliminary Hazard Assessment	PHA02	The BESS will be installed in accordance with manufacturer and UL9540A report recommended clearances based on testing.	Construction	Appendix 16 and EIS Section 6.13.1
Preliminary Hazard Assessment	PHA03	The BESS will be installed with fire protection systems specified by the manufacturer and UL9540A report.	Construction	Appendix 16 and EIS Section 6.13.1
Preliminary Hazard Assessment	PHA04	Prior to the commencement of construction in the relevant stage of the Project, detailed design will be undertaken to validate the BESS can be installed in the Project Area whilst meeting the recommended clearances.	Prior to construction	Appendix 16 and EIS Section 6.13.1
Preliminary Hazard Assessment	PHA05	UL testing information shall be made available to the certifying authority. It is noted that a confidentiality agreement may be required.	Construction	Appendix 16 and EIS Section 6.13.1

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Preliminary Hazard Assessment	PHA06	The vent covers of the BESS shall be constructed of non-combustible material.	Construction	Appendix 16 and EIS Section 6.13.1
Preliminary Hazard Assessment	PHA07	The vents shall not be located above battery packs within the BESS container.	At all times during the carrying out of the development	Appendix 16 and EIS Section 6.13.1
Bushfire	BF01	A BFEMOP will be prepared in consultation with the RFS and FRNSW which will be implemented over the life of the Project. The purpose of the BFEMOP is to identify all relevant risks and mitigation measures associated with the construction, operation and decommissioning of the Project. This will include details regarding: • measures to prevent or mitigate fires igniting • work that should not be carried out during total fire bans • availability of fire-suppression equipment, access and water • storage and maintenance of fuels and other flammable materials • procedures to notify the local NSW RFS Fire Control Centre for any works that have the potential to ignite surrounding vegetation, proposed to be carried out during a bush fire danger period to ensure weather conditions are appropriate • appropriate bush fire emergency management planning.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF02	The BFEMOP will detail emergency response procedures to facilitate aerial firefighting operations, including protocols for: • communications with relevant fire and land management agencies • ensuring access is available to the Project Area by emergency services response for on-ground firefighting operations • ensuring WTGs are shut down immediately during emergency operations (where possible, blades will be stopped in the 'Y' or 'rabbit ear' position).	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF03	The BFEMOP will reflect Spark Renewables' commitments to bushfire training and the provision of firefighting equipment for personnel, including: • training for all on-site personnel regarding bush fire response procedures • firefighting training for operational workers • fitting of basic firefighting equipment in operational vehicles.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Bushfire	BF04	Sleeping accommodation within the TWA facility will comply with Sections 3 and 5 (BAL 12.5) of Australian Standard AS3959-2018 'Construction of buildings in Bush Fire-prone areas', except as modified by Section 7.5 of PBP (2019).	Construction	Appendix 17 and EIS Section 6.13.2
Bushfire	BF05	Essential equipment will be designed and housed in such a way as to minimise the impact of bushfires on the capabilities of the infrastructure during bushfire emergencies. It will also be designed and maintained so that it will not serve as a bushfire risk to surrounding bush.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF06	Fire protection equipment within buildings including fire extinguishers, fire hose reels, evacuation signage, first aid kits, etc will be available at all times and serviced /maintained regularly.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF07	The O&M site offices will be ember screened, with a 20 m APZ (refer BF11 and BF12 for other APZ commitments). The BFEMOP will include a protocol to shut all windows & doors in a bush fire emergency.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF08	A sprinkler system (i.e. metal garden sprinklers on the ground) will be considered for the O&M APZs, including wetting the walls of the building. This would provide limited fire suppression in the event of a fire.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF09	A petrol or diesel or solar powered fire fighting pump (with battery storage backup) and minimum 30 m hose reel with a steel nozzle will be purchased and stored in an ember proofed housing. This mobile pump can be used on the back of a 4WD or similar vehicle to fight grassland fires/spot fires, and for pumping water from water tank(s).	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF10	For the construction and decommissioning phases of the Project, the following measures will be implemented: • provide good access i.e. construct access roads prior to WTG and ancillary infrastructure installation as described under BF15 below, and then decommission access roads after WTG and ancillary infrastructure removal (except where required for farming operations) • install appropriate signage to assist emergency response crews • ensure any and all appropriate permits are issued as required • adhere to restrictions on total fire ban, or days of high fire danger • vehicles carry fire extinguishers or fire fighting equipment, where possible	Construction and decommissioning	Appendix 17 and EIS Section 6.13.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		• emergency communications equipment is carried • vehicles will be selected with a preference for diesel and/or will utilise cleared tracks/internal roads to minimise likelihood of ignition • smoking is restricted to prescribed areas with suitable butt disposal • plant equipment and machinery is maintained to a suitable standard and cleaned to remove any accumulated flammable material • the 'Fires Near Me' app is utilised to understand proximal threat of fire.		
Bushfire	BF11	During construction and for the life of the Project, APZs will be established and maintained in accordance with Appendix 4 of PBP, 2019. APZs will be established to the following standards, as a minimum: • TWA – 25 m • O&M facilities – 20 m • WTGs, substations, switchyards and BESS – 10 m.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF12	Additionally, Spark Renewables will maintain: • Clearance of all woody vegetation within two (2) m of power poles. • Clearance of all woody vegetation within three (3) m of transmission tower structures or 12 m from the centre of the tower (whichever is greater).	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF13	Water, electricity and gas will comply with Table 7.4a (where relevant) of PBP (2019).	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF14	A non-combustible dedicated water tank/s (minimum capacity 100,000 litre (l)) with Storz fitting will be provided on site. Dedicated fire fighting water supply from this tank is specifically for fire tanker refilling/on-site fire fighting. This Static Water Supply (SWS) will be placed in a location readily accessible by fire tanker (within the TWA facility or O&M compounds). The SWS will be signposted, and a minimum ten (10) m APZ will be established and maintained around it.	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2
Bushfire	BF15	The internal road network will conform to PBP (2019). Specifically, internal roads will have: • minimum 4 m vertical clearance to any overhanging obstructions	At all times during the carrying out of the development	Appendix 17 and EIS Section 6.13.2

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		• minimum 4 m width with 1 m traversable shoulders, unsealed/sealed all weather traversable road with suitable load bearing capacity, drainage structures and feature crossings • a grade generally less than 100, noting short steep sections would be acceptable if sealed and <150 and then suitable cross fall of the road surface provided • two-way traffic flow (with capacity for passing and turning areas) which enables safe access & egress for emergency services and allow crews to work with equipment about the vehicle is to be provided by the proposed road system & APZs.		
Electromagnetic Frequency	EMI01	Should any substantial changes to the WTG layout occur in the future (i.e. moving WTGs beyond approved micro-siting limits) potential interference to telecommunications services will be reviewed, in consultation with relevant stakeholders, as part of any future modification application. If impacts are identified as a result of future design changes the following conceptual avoidance, minimisation and/or mitigation options would be considered: • Modify the design to either relocate and/or remove wind turbines to avoid, minimise and/or mitigate any EMI issues and telecommunications impacts. • Monitoring telecommunications during construction, operational and/or decommissioning phases of the Project to confirm impacts. • Modify telecommunications transmission paths around wind turbines. • Modify existing telecommunications infrastructure to improve performance. • Where these options require future investigation, any interaction and/or cumulative impact as a result of the developments listed in the EMI report and this EIS (or any additional developments that have entered the public domain since) would be considered.	At all times during the carrying out of the development	Appendix 18 and EIS Section 6.13.3
Electromagnetic Frequency	BT01	Ensuring all WTGs are manufactured and certified to achieve relevant Australian and international safety standards (IEC 61400-23).	Construction	Appendix 18 and EIS Section 6.13.3
Electromagnetic Frequency	BT02	Ensuring all WTGs are equipped with suitable measurement instrumentation that can detect and then respond to any rotor blade imbalances and shut down WTG if required.	Construction	Appendix 18 and EIS Section 6.13.3
Electromagnetic Frequency	BT03	Ensuring all WTGs will be suitably managed and maintained according to industry best-practice standards and are subject to a regular and comprehensive maintenance and servicing regime.	Construction	Appendix 18 and EIS Section 6.13.3

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Electromagnetic Frequency	BT04	Additionally, should any substantial changes to the WTG layout occur in the future (i.e. moving WTGs beyond approved micro-siting limits) blade throw risks will be reviewed and the following measures implemented as part of any future modification application: • Modify the design to either relocate and/or remove WTGs to avoid, minimise and/or mitigate any blade throw issues, risks and impacts. • Confirm during detailed design that any change in probability of fatality, and blade fragmentation and blade drop risk at FB2 (a farm building located within 400 m of T14, as seen in Figure 10 of Appendix 19), as a result of any relevant design modification (i.e. relocation of WTG near FB2) results in a risk and associated impact being maintained within suitable thresholds of acceptability.	At all times during the carrying out of the development	Appendix 18 and EIS Section 6.13.3
Electromagnetic Frequency	EMF01	Should any substantial changes to the WTG layout and associated electrical infrastructure occur in the future (i.e. moving WTGs beyond approved micro-siting limits) potential EMF impacts, however unlikely, will be reviewed. If impacts are identified as a result of future design changes the following conceptual avoidance, minimisation and/or mitigation options would be considered: • Confirm during detailed design that any change in EMF, as a result of any relevant design modification results in a risk and associated impact being maintained within suitable thresholds of acceptability. • If required, modify the design to either relocate and/or remove infrastructure to avoid, minimise and/or mitigate any EMF issues, risks and impacts. • Where these options require future investigation, any interaction and/or cumulative impact as a result of the developments listed in this EIS (or any additional developments that have entered the public domain since) would be considered.	At all times during the carrying out of the development	Appendix 18 and EIS Section 6.13.3
Aviation	AV01	Details of the Project have been reported to CASA in accordance with CASR Part 139.165(1)(2).	Prior to construction	Appendix 20 and EIS Section 6.13.6
Aviation	AV02	'As constructed' details of WTG coordinates and elevation have been provided to AsA, by submitting the form at this webpage: https://www.airservicesaustralia.com/wp-content/uploads/ATS-FORM-0085_Vertical_Obstruction_Data_Form.pdf to the following email address: vod@airservicesaustralia.com	Prior to construction	Appendix 20 and EIS Section 6.13.6

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Aviation	AV03	Any obstacles above 100 m AGL (including temporary construction equipment) will be reported to AsA NOTAM office until they are incorporated in published operational documents. With respect to crane operations during the construction of the Project, a notification to the NOTAM office may include, for example, the following details: - The planned operational timeframe and maximum height of the crane. - Either the general area within which the crane will operate and/or the planned route with timelines that crane operations will follow.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6
Aviation	AV04	Spark Renewables will continue to consult with local and regional aircraft operators and provide them with details of the Project prior to construction in order for them to consider the potential impact of the wind farm on their operations.	Prior to construction	Appendix 20 and EIS Section 6.13.6
Aviation	AV05	Spark Renewables will continue to consult with the host landholder regarding the use of the private aircraft landing areas (ALA) and will minimise and/or mitigate the Project's impacts to aerial operations where practicable. Mitigation measures may include amending landing procedures to avoid the wind farm, or relocating or re-orienting the ALA.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6
Aviation	AV06	To facilitate the flight planning of aerial application operators, details of the Project, including the 'as constructed' location and height information of WTGs and overhead transmission lines should be provided to landowners so that, when asked for hazard information on their property, the landowner may provide the aerial application pilot with all relevant information.	Prior to construction	Appendix 20 and EIS Section 6.13.6
Aviation	AV07	The rotor blades, nacelle and the supporting tower of the WTGs should be painted white, typical of most WTGs operational in Australia. No additional marking measures are required for WTGs.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6
Aviation	AV08	While it is not mandatory to mark the WMTs, however the following measures will be implemented in consideration of potential day VFR aerial work operations in accordance with NASF Guideline D: obstacle marking for at least the top 1/3 of the mast and be painted in alternating contrasting bands of colour. - marker balls or high visibility flags or high visibility sleeves placed on the outside guy wires - guy wire ground attachment points in contrasting colours to the surrounding ground/vegetation.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
Aviation	AV09	Providing the micro-siting is within 100 m of the planned WTGs it is not likely to result in a change in the maximum overall blade tip height of the Project. No further assessment is likely to be required from micro-siting and the conclusions of this AIA would remain the same.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6
Aviation	AV10	Triggers for review of this risk assessment are provided for consideration: • following any significant changes to the context in which the assessment was prepared, including the regulatory framework • following any changes to the regulatory framework for the assessment of the Project • following any near miss, incident or accident associated with operations considered in this risk assessment.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6
Aviation	AV11	Spark Renewables will ensure that: • Liaison with the relevant fire and land management agencies is ongoing and effective. • Access is available to the Project Area by emergency services response for on-ground firefighting operations. • Wind turbines are shut down immediately during emergency operations – where possible, blades should be stopped in the ‘Y’ or ‘rabbit ear’ position, as this positioning allows for the maximum airspace for aircraft to manoeuvre underneath the blades and removes one of the blades as a potential obstacle.	At all times during the carrying out of the development	Appendix 20 and EIS Section 6.13.6
Waste	W01	As part of the detailed design and construction phase a Waste Management Plan will be prepared which will include a detailed breakdown of waste types and quantities in accordance with relevant legislation and guidelines. • The Waste Management Plan will outline the measures and strategies to be implemented on site to manage, reuse, recycle and safely dispose of waste including: • separation and storage of recyclable and non-recyclable materials • reuse and collection/transportation of waste • procedures for tracking waste storage and disposal.	Prior to construction	EIS Section 6.14
Waste	W02	Spark Renewables has committed to develop and implement a detailed DRP for the Project in consultation with key stakeholders, to guide the decommissioning of the Project and the rehabilitation of the site and to mitigate any negative legacy impacts to the community.	Prior to decommissioning	EIS Section 6.14

Aspect	ID #	Mitigation and/or Management Measure	Timing	Relevant EIS Section/Appendix
		To cover any potential future shortfall in the decommissioning costs Spark Renewables will commit to the following conditions to be included in any development approval issued: • Undertake an annual assessment of the remaining life of the Project, starting in Year 15. • When it is determined that the remaining economic life of the Project is less than six (6) years, update the DRS to identify the expected decommissioning methodology and anticipated cost. • If a shortfall (cost) is identified, establish a dedicated decommissioning reserve fund to cover the decommissioning and rehabilitation cost of the Project. This reserve will be established out of operating cashflows, with an appropriate percentage of cash generated by the Project directed into this reserve.		