

Notice of Intent

Integrated Live Export Facility, Livingstone, NT

Report Number 23919.78471



Prepared for

Wellard Rural Exports

1A Pakenham Street
Fremantle WA 6160
Telephone: (08) 9432 2800

ABN: 31 109 866 328

Prepared by

EnviroAg
Australia

PO Box 1197
MILTON QLD 4064
Telephone: (07) 3367 0001

ABN: 56 135 005 999

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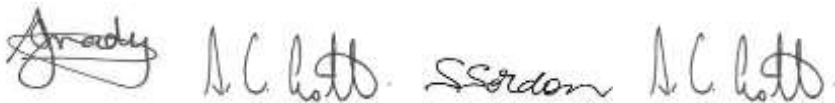
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Wellard Rural Exports

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Company

EnviroAg Australia

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Executive Summary

EnviroAg Australia Pty Ltd (EnviroAg) is assisting Wellard Rural Export Pty Ltd (Wellard's) with the approval process for development of a beef cattle pre quarantine export (PEQ) yard facility in Darwin. The proposed facility is to be located next to an existing PEQ yard and neighbours the AA Co meat processing facility. The proposed development is likely to supplement the existing "Santavan" PEQ yard.

This Notice of Intent is to provide relevant information to the Northern Territory EPA to allow the proposed development to be assessed against the Territory and Federal legislative requirements. The development will apply known design principles. It is a modest development (total capacity of the intensive animal facility of 5,000 SCU's and Feedmill) that will deliver, business, environmental, animal welfare and community benefits.

The proposed development site is located in the Hundred of Strangways in Livingston, Northern Territory. The site is currently developed for cultivation and pasture production. The site is suitable for the proposed development as it has Rural Zoning and it adjoins properties with similar developments.

The design delivers a state of the art facility which will enable Wellard's to well manage the facility, limit environmental impact and exercise best practice management of animal health and welfare.

Table of Contents

1.	Introduction	1
2.	Proponent details and contacts	1
3.	Proposed Development	1
3.1	Location	3
3.2	Zoning	3
3.3	Employment	3
3.4	Economic Benefit	3
4.	Legislative Requirements	7
5.	Existing Geography	7
5.1	Landscape and Soils	7
5.2	Geology	8
5.3	Hydrology	8
5.4	Water Resources	9
5.5	Flora	9
5.6	Fauna	11
6.	Environmental Risk Assessment, Management and Monitoring	12
6.1	Environmental Risk Assessment	12
6.2	Environmental Management	12
6.3	Environmental Monitoring	12
7.	Proposed Assessment	15
8.	Summary	16
9.	Appendices	17

List of Tables

Table 1:	Location details of the Livingstone ILEF site	3
Table 2:	Desktop Threatened Flora Search Results	9
Table 3:	Desktop Threatened Fauna Search Results	11
Table 4:	(Preliminary) Risk Assessment of Proposed Development and Related Environmental Factors	13

List of Figures

Figure 1:	Aerial Image of a (Similarly Sized) Queensland Cattle Feedlot and Facilities	2
Figure 2:	Cattle held in a semi-Confined PEQ Yard (<i>courtesy of the Live Export Diaries</i>)	2
Figure 3:	Location of Wellard Live Export Facility; Livingston Valley South-East of Darwin.	5
Figure 4:	Site General Arrangement of the Integrated Live Export Facility	6
Figure 5:	Land Unit of the Site (Blue Boundary) (NT Gov – NR Maps:2015)	8
Figure 6:	Pasture and Cultivation on "Livingstone Valley"	10
Figure 7:	Wellard Livingstone Site Vegetation Map	10

List of Appendices

Appendix A.	EPBC Act Protected Matters Search Results	A-1
Appendix B.	Drawings & Design	B-1

1. Introduction

Wellard Rural Exports (Wellard's) sells and exports livestock to overseas markets. It has a network of facilities across several States in Australia. It has a significant market share of the live export trade in the Northern Territory. The company has made a significant investment in the long-term future of the livestock export trade and is committed to it. Wellard's have been exporting from the Darwin for over 10 years.

Currently Wellard's lease several pre-export quarantine (PEQ) holding yards close to and outside of Darwin. The existing operations are spread across a number of leased sites with poor to adequate environmental and animal care management. These present business, environmental and animal welfare risks to the Wellard's business. Wellard's wish to proceed with the development of a new Integrated Live Export Facility (ILEF) so as to improve the overall sustainability of their business.

EnviroAg Australia Pty Ltd (EnviroAg) is assisting Wellard's with obtaining approval for development of a beef cattle pre quarantine export yard facility in Darwin. EnviroAg has decades of experience in the approval, design and construction of intensive livestock facilities through-out Australia. It is the author of State and National guidelines for environmental management and operation of beef cattle feed yards.

2. Proponent details and contacts

The Proponent for this proposal is:

Wellard Rural Exports Pty Ltd (Wellard's)
1A Pakenham Street,
Fremantle WA 6160
Telephone: (08) 9432 2800

The Consultant for this proposal is:

EnviroAg Australia (EnviroAg)
Dr Simon Lott
6/1 Fort Lane,
Milton QLD 4064
Telephone: 1800 445 389
Email: simon.lott@enviroag.net.au

3. Proposed Development

The development consists of the following infrastructure;

- (i) Care takers house;
- (ii) Commodity and fodder storage sheds;
- (iii) Feedmill;
- (iv) Freshwater storage (ring tank and clean water tanks); for capture and storage of roof runoff and storage of ground waters for stock water supply;
- (v) Pre-Export Quarantine (PEQ) holding yard (Average holding capacity 3,000SCU; 12,000 SCU "peak" short term (~5 day) holding capacity);
- (vi) Livestock truck washing facility;
- (vii) 2,000 SCU (Short term) feedlot; for holding stock for longer than 30 days;
- (viii) Waste storage and treatment facilities; and;
- (ix) Irrigation area for treated waste water reuse and hay / fodder production.

The proposed development consolidates existing Wellard's operations onto a new site adjacent to an existing site. The objective of this development is to deliver a net improvement and overall benefit to the business, the environment and

the livestock to be exported. It is expected that there will be a resultant net positive benefit to the community, and to Darwin and its port.

If the opportunity arose, the PEQ would be increased to 20,000 head (5,000 standard cattle units) as a second stage to the development. This will not be progressed in the immediate future but will be taken into account in the design.



Figure 1: Aerial Image of a (Similarly Sized) Queensland Cattle Feedlot and Facilities



Figure 2: Cattle held in a semi-Confined PEQ Yard (courtesy of the Live Export Diaries)

3.1 Location

The development is located on the property known as “Livingstone Valley” (Lot 5544 Hundred of Strangways; Livingstone Valley) located on the Stuart Highway at Livingstone, Northern Territory. It is situated 35 km south-south east (SSE) of Darwin; 25 km south east of the Darwin harbour, and about 7kms west of Berry Springs. The nearest neighbour is a farm residence some 1.25 km to the east-south-east.

The location of the property is shown in Figure 1 below. The proposed general arrangement is shown in Figure 2 below with the concept plan shown on Drawing 30422.SP.01. The selected site is immediately adjacent to the “Santavan” PEQ holding yard which is currently leased to Wellard’s. It has an area of 90.5 ha (or 220 acres).

Table 1: Location details of the Livingstone ILEF site

Parameter	Value
Address	“Livingston Valley” 2658 Stuart Highway, Livingstone, NT 0822
Land Parcel Type and Label	Sec 5544
Town/Hundred	Livingstone, Hundred of Strangways
Area	90.5 ha (220 acres)
Landuse zoning	Rural

3.2 Zoning

The subject land is currently zoned Rural (NTPS, 2015). The Draft Darwin Regional Land Use Plan 2014 notes the subject land as Rural / Rural Lifestyle and notes that agriculture and related niche business are important to such land use structure and the Livingstone municipality.

3.3 Employment

The work force that is estimated to be used by the facility is summarised below.

- Export Facility = 3-4 permanents; up to 10 casual workers
- Feedlot facility = 2-3 workers
- Feedmill = 3-6 workers
- Contract farmers = 2 workers
- Total work force is expected to be > 20 at full development
- This should be multiplied by 2-3 for ancillary work force; transport, vet, rural merchandise etc.

This work force is local and far more “sustainable” and beneficial for the regional community than that from a FIFO mining operations. It will have a significant multiplier effect for Darwin, its surrounds and the Northern Territory.

3.4 Economic Benefit

3.4.1 Capital Worth

The development of the ILEF will be undertaken in three stages. The full development will have a capital cost of about \$12M (based on 2014 costs). The majority of this expenditure will be in the local Darwin business community (contractors, materials and labour). A significant amount will be spent on the feed-mill, and sheds which are likely to be manufactured inter-State and transported to the site for erection.

3.4.2 Operational Worth

The life of the development is expected to be greater than 40 years.

Each year Wellard's buy at least \$50M worth of livestock from within the NT for export. About \$5M is spent on transport of livestock and \$8M on fodder and feedstuffs for PEQ yards and feed for placement on ships. About \$4M is spent on port costs. Thus about \$67M is expended in the NT.

Of the above expenditure it is expected that \$2M will be spent each year on local labour and \$3M on local fodder and hay. Existing expenditure at the port and within the region will continue.

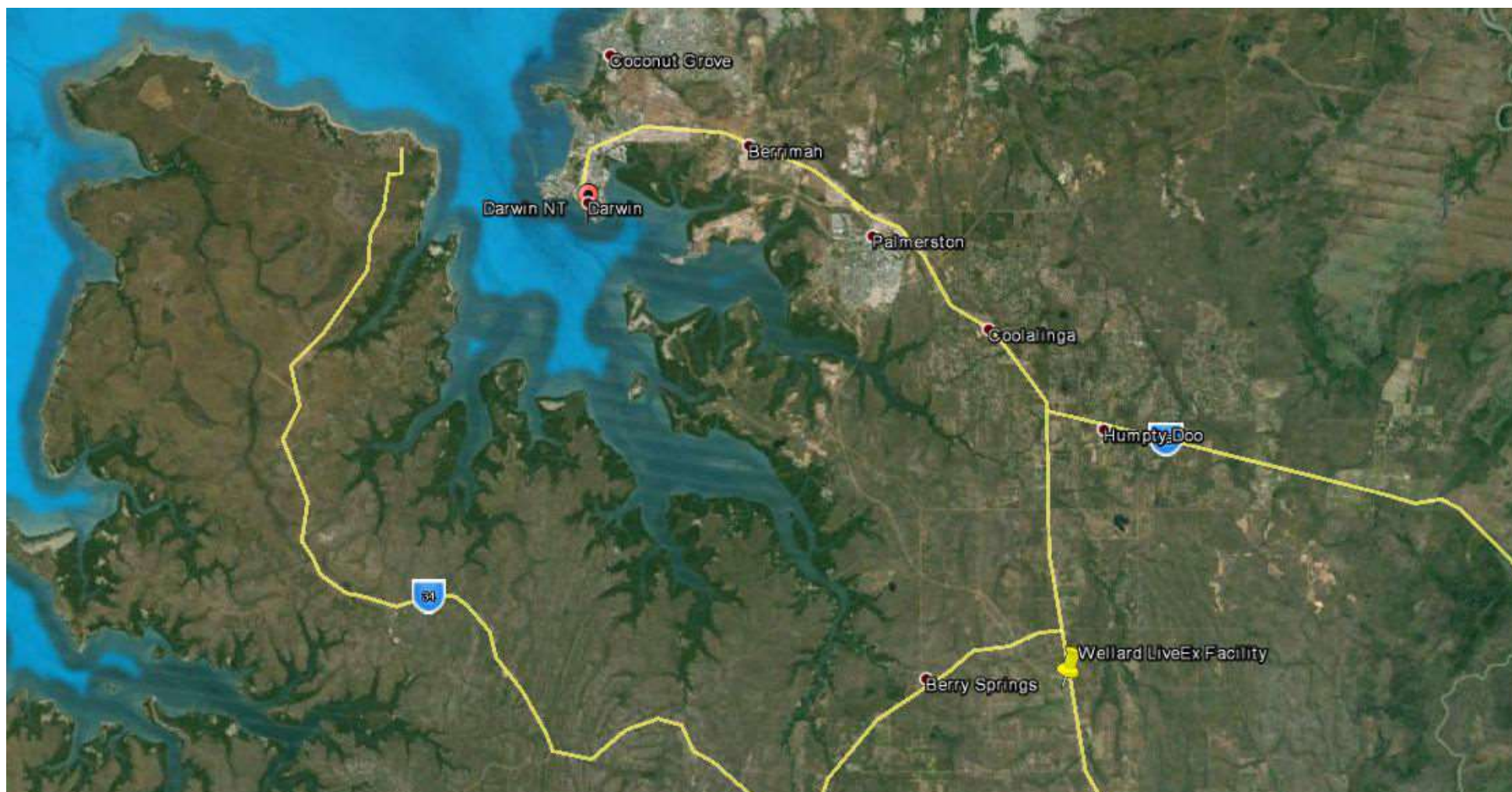


Figure 3: Location of Wellard Live Export Facility; Livingston Valley South-East of Darwin.

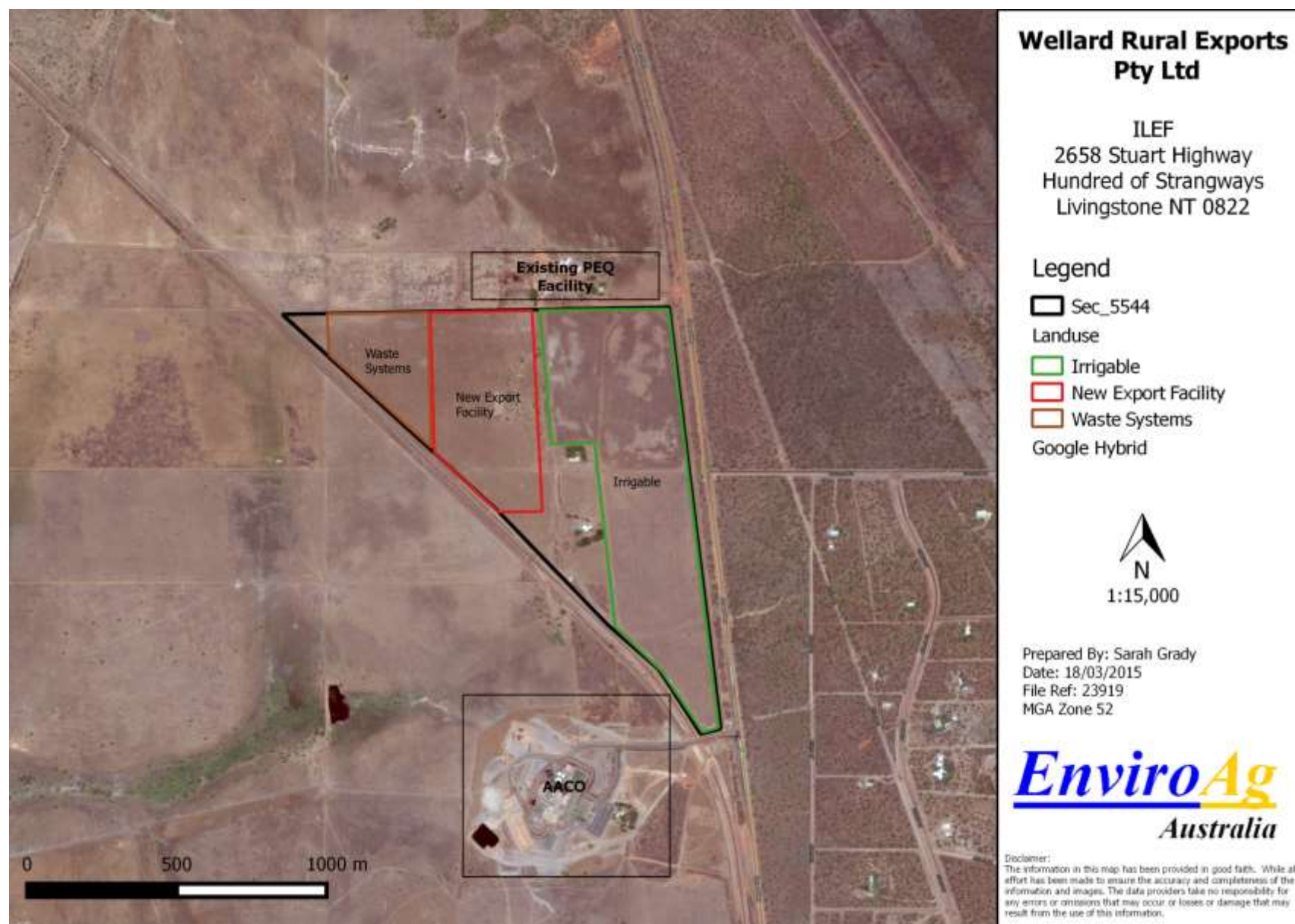


Figure 4: Site General Arrangement of the Integrated Live Export Facility

4. Legislative Requirements

4.1.1 *Environmental Protection and Biodiversity Conservation Act 1999 (Commonwealth)*

The Environmental Protection and Biodiversity Conservation Act (EPBC Act) requires any development that could have a significant impact on the environment or matter of national significance to be referred to the Australian Government Minister for the Environment for assessment. A search of the EPBC Act protected Matters Search Tool was undertaken and is attached in Appendix A.

4.1.2 *Planning Act (NT)*

The Planning Act outlines the requirements of development applications and administers the Northern Territory Planning Scheme. The application must address these requirements to allow adequate assessment by the Determining Authority.

4.1.3 *Northern Territory Planning Scheme (NTPS)*

The NTPS zones the proposed development site as R-Rural; and outlines the objectives and allowable development within the zone. The proposed development is noted as Intensive Animal Husbandry and is discretionary which means development consent is required from the Department of Land Planning and the Environment before this development can be undertaken on the land. The development application will be lodged with the Department of Lands Planning and the Environment concurrently with this Notice of Intent.

5. Existing Geography

5.1 Landscape and Soils

The land drains from east to west, with elevation varying from 54 AHD to 24 AHD across the site. The gradient is approximately 1.5% to 3%.

The site is located in the NT Van Diemen soils group. Within this zone the landscape is undulating to rolling hills and rises with mostly poorly developed, shallow and gravelly Kandosols, though Tenosols dominate the southern half of the zone. The property is in the land units 3b.1 (NTGov:2015). The unit distribution is shown in the diagram below. It covers the majority of the site.

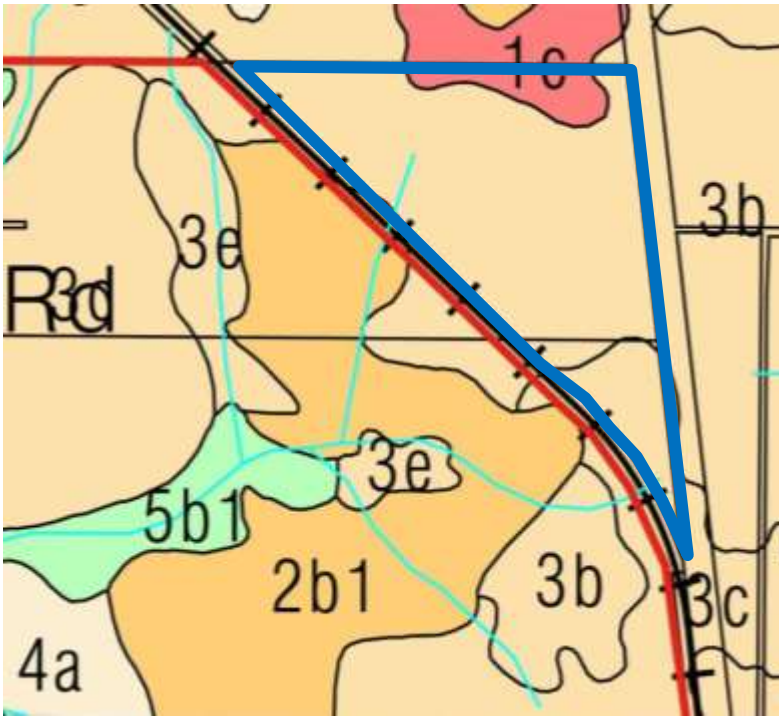


Figure 5 Land Unit of the Site (Blue Boundary) (NT Gov – NR Maps:2015)

Land Unit 3b is characterised by flat to very gently undulating upland surfaces, with gradient of 0.5 to 2.5%. Soils are generally moderately deep to deep gravelly yellow massive earths usually overlying friable weathered material and minor red massive earths, grading through the soil profile to sandy loam to sandy clay loam and light clay at depth. Soils are well drained. Thus the soils are typical of Kandasols associated with the wet tropics.

5.1.1 *Adjoining Landuse*

Adjoining properties are utilised for grazing, cropping and pasture on rotation, with rail corridor on the south western boundary of the proposed development site.

5.2 Geology

The Kandasol soils overlie a sedimentary geology. The Kandasols contain varying amounts of clay. Clays are generally shallow on the upper slopes or exposed hill crests; these are the likely recharge areas.

5.3 Hydrology

The site has no creeks and sits at the top of a watershed. Water runs off to the west. The site does not flood. Low lying areas in the north east corner of the property, where it is lowest, and proximate to the railway line are flat and become inundated with runoff from upslope.

Areas to the east of Stuart Highway are considered to be recharge areas. There is some connectivity between these recharge areas, ground waters and downslope surface waters. Berri Creek gains water from the shallow groundwater systems and it is groundwater that delivers water to this system during the dry season.

The chosen site is underlain by a considerable depth of clay and as such transmission of surface waters from the property to the ground waters is at the best slow if not unlikely.

5.4 Water Resources

5.4.1 Groundwater

The majority of the existing registered bores in the locality were drilled and constructed between 1995 and 2009 for domestic and agricultural production purposes.

Soil drill logs were recorded for the majority of these bores in the immediate vicinity of the proposed development. The majority of borehole/drill logs exhibited the following information:

- topsoil to 0.5 – 1.0 metre depth;
- sandy surface soil is underlain by sandy clay and clay layers to ~20 - 30 metres in;
- depth providing a barrier to the groundwater aquifer;
- deeper layers generally included yellow and grey clay, red and grey shale; and
- siltstone with gravelly seams.

Most bores were drilled to depths ranging from 60 – 100 metres with standing water levels of 6 – 13 metres below ground level. Yields were mostly sufficient for domestic and production bores ranging between 0.5 – 5 litres/second. The main water bearing zones are recorded as being from approximately 27 – 95 metres in depth.

5.4.2 Surface Water

There are no major surface waters flowing across the site.

5.5 Flora

The site has been cleared and developed. Few trees remain on the site. Some exotic trees have been planted proximate to the existing residence.

The vast majority of the property has been cultivated and sown to improved pasture species; Jarra and Tulla grasses as shown in Figure 6 below.

A desktop search of the relevant databases was undertaken and the results are shown in the table below:

Table 2: Desktop Threatened Flora Search Results

Scientific Name	Common Name	Status	Governing Body	Comments
<i>Atalaya brevialata</i>	-	Critically Endangered	EPBC	Species or species habitat may occur within area
<i>Cycas armstrongii</i>	-	Vulnerable	NT	Recorded in the area

The listed species were not observed on the site during the site inspection. The current and historic cultivation and pasture practices would limit natural species regeneration.



Figure 6: Pasture and Cultivation on "Livingstone Valley"

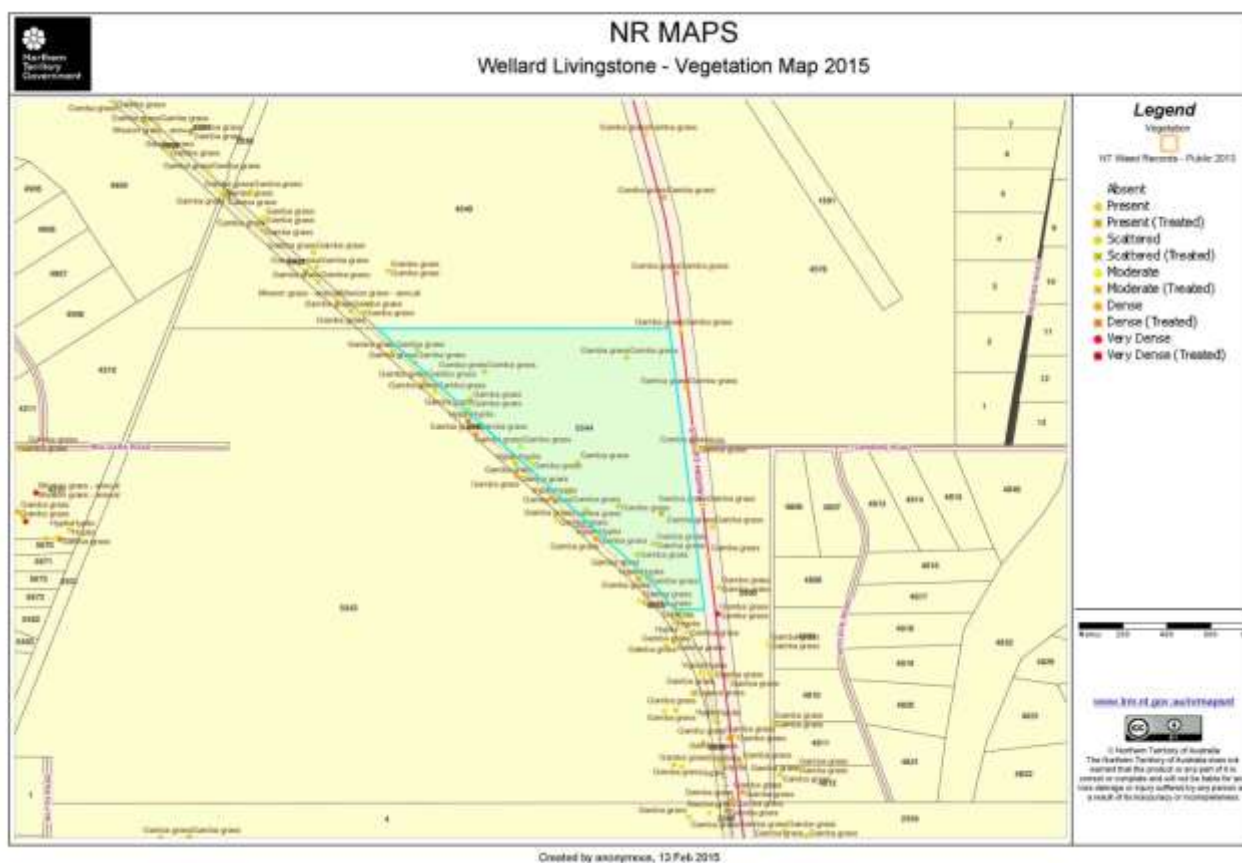


Figure 7: Wellard Livingstone Site Vegetation Map

5.6 Fauna

The site has been cleared and developed. A desktop search for the site showed the following species have been recorded in the area:

Table 3: Desktop Threatened Fauna Search Results

Scientific Name	Common Name	Status	Governing Body	Comments
<i>Ardeotis australis</i>	Australian Bustard	Vulnerable	NT	Recorded in the area
<i>Ardea ibis</i>	Cattle Egret	Migratory/Marine	EPBC	Recorded in the area
<i>Erythrotriorchis radiatus</i>	Red Goshawk	Vulnerable	EPBC	Species or species habitat likely to occur within the area
<i>Erythura gouldiae</i>	Gouldian Finch	Endangered	EPBC	Species or species habitat likely to occur within the area
<i>Geophas smithii smithii</i>	Partridge Pigeon (eastern)	Vulnerable	EPBC	Species or species habitat known to occur within the area
<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	EPBC	Species or species habitat may occur within area
<i>Tyot novaehollandiae kimberli</i>	Masked Owl (northern)	Vulnerable	EPBC	Species or species habitat likely to occur within the area
<i>Dasyurus hallucatus</i>	Northern Quoll	Critically Endangered	EPBC & NT	Recorded in the area
<i>Mesembriomys gouldii</i>	Black-footed Tree Rat	Vulnerable	NT Listed	Recorded in the area
<i>Conilurus penicillatus</i>	Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma	Vulnerable	EPBC	Species or species habitat may occur within area
<i>Phascogale pirata</i>	Northern Bush-tailed Phascogale	Vulnerable	EPBC	Species or species habitat known to occur within area
<i>Saccolaimus saccolaimus nudicluniatus</i>	Bare-rumped Sheath-tail Bat	Critically Endangered	EPBC	Species or species habitat likely to occur within area
<i>Xeromys myoides</i>	Water Mouse, False Water Rat, Yirrkoo	Vulnerable	EPBC	Species or species habitat likely to occur within area
<i>Acanthophis hawkei</i>	Plains Death Adder	Vulnerable	EPBC	Species or species habitat likely to occur within area

Limited onsite assessment did not note any of the species listed. Based on the results from the desktop assessment and basic onsite assessment a Threatened Species Assessment will be required.

6. Environmental Risk Assessment, Management and Monitoring

6.1 Environmental Risk Assessment

The risks associated with construction of the development and associated environmental impacts are very well known. A Construction Environmental Management Plan (CEMP) will be developed. It will be developed by the successful bidder for the tender of the construction of the facilities, and only upon completion and acceptance of the detail design by Wellard's. The CEMP will be submitted for approval by Wellard's and the NT Government before construction commences.

The selected site, general layout and design will all aim to minimise operational environmental impacts. Table 1 below sets out the (preliminary) risk assessment and the likely residual risk for the identified key environmental factors. The risk assessment uses a standard 5 by 5 risk assessment matrix.

The application of good mitigation practices renders most high risk activities to Low or Medium risks. Management and monitoring measures will be applied for High and Medium risks only. Standard Operating Procedures (SOPs) and Work Instructions (WI's) will be used to all control risks.

6.2 Environmental Management

The facility will be operated under a quality, environmental and animal welfare management system. The quality management systems will be focused on risk management across all facets on the business and the facility.

The environmental management will be set out in an "Operational" Environmental Management Plan. The OEMP will include the following management plans;

- (i) Environmental Monitoring Plan
- (ii) Waste Management Plan
- (iii) Irrigation (Waste Water) Management Plan
- (iv) Weed Management Plan
- (v) Pest Management Plan
- (vi) Traffic Management Plan

Each management plan will set out work instructions (WI) for implementation of key tasks.

6.3 Environmental Monitoring

It is expected that, based on the current risk assessment; the proposed facility will monitor the following community and physical factors.

- The facility will maintain a complaints register. All "viable" community complaints will be investigated and the register will contain the findings of the investigation.
- Surface waters will be monitored by sampling of any spill from the holding pond or irrigation tailwater pond should they occur.
- Piezometers will be placed down slope of the facility to monitor (shallow) groundwater quality.
- The amount of groundwater extracted for agricultural and stock and domestic use will be metered and recorded.
- The amount of compost sold / transported off site will be recorded
- The tonnage of hay / fodder harvested from the site will be determined each year so as to determine the nutrient recovery
- Annual soil sampling will be undertaken in the waste water irrigation area to determine soil health and monitor for any nutrient build ups that may pose a threat as a nutrient loss below the root zone.

It is expected that monitoring frequencies will vary from daily checks through to annual sampling of soils for agronomic and environmental purposes.

Table 4: (Preliminary) Risk Assessment of Proposed Development and Related Environmental Factors

Hazard	Frequency	Severity	Risk	Mitigation	Resultant Frequency	Resultant Severity	Residual Risk	Monitoring
Odour Nuisance	Possible	Significant	High	- Complaints phone number - Investigation system in place - Manure management - Dewater holding ponds	Possible	Moderate	Medium	- Daily check - Weekly "check in" with receptors - Community complaint register
Dust Nuisance	Likely	Minor	Medium	- Managed stocking density - Watering of roads	Possible	Minor	Low	- Daily check - Community complaint register
Dust from internal roads	Very Likely	Minor	Medium	- Road aggregate selection - Dust suppressant - Road watering - Asphalt - Low vehicle speeds	Unlikely	Low	Low	Daily check
Contamination of Surface Waters (Spill from Holding pond)	Unlikely	Significant	Medium	- Pond sized to capture rainfall runoff - Significant irrigation pump capacity	Unlikely	Moderate	Low	Holding pond depth level (available capacity)
Contamination of Ground waters below lined pens, drains, sed basin, holding ponds.	Unlikely	Significant	Medium-High	- Clay lining - Armouring - Regular inspection	Unlikely	Moderate	Medium	Measuring and testing of groundwaters in piezometers
Contamination of Groundwaters below irrigable areas	Possible	Significant	Medium-High	- Treatment of waste water - Low application rates - Nutrient uptake by crop - Nutrient removal by crop harvest	Unlikely	Moderate	Medium	- Soil sampling and testing - Measuring and testing of groundwaters in piezometers
Degradation of land / soils	Likely	Significant	Medium	- Safe appln of nutrients and water - Nutrient recovery through hay and fodder production	Possible	Significant	Medium	- Soil sampling and testing - Record fodder and hay prodn - Nutrient testing of hay and fodder

				• Application of lime / gypsum				• Nutrient budgets
Visual Amenity	Very Likely	Minor	Medium	• Position the facilities below the horizon (from Stuart Highway)	Unlikely	Minor	Low	• Community complain register
Traffic	Very likely	Significant	Medium	• Correct turn in • TMP, restricted hours of movement	Possible	Significant	Medium	• Community complain register
Pest nuisance	Very likely	Moderate	Medium	• Design and construction • Double fencing • Chemical treatment of stock	Likely	Low	Low	• Daily checks of traps
Weeds	Likely	Moderate	Medium	• Import weed free certified feeds • Daily property checks • Weed control	Unlikely	Moderate	Low	• Daily property checks • Recording of weed control

7. Proposed Assessment

The assessment of the development will focus on medium and high risks identified in the risk assessment. Key physical assessments will include;

- (i) Physical site survey – RTK survey of site and surrounds (Completed)
- (ii) Soil Assessment (Geotechnical / Agronomic) – test pits and soil tests (Completed)
- (iii) Geological (Groundwater supply / hydrogeology) – pilot hole (In Process)

Desktop assessments will include;

- (a) Comprehensive layout design and concept design (Completed)
- (b) Odour Assessment (based on the National Guidelines for Beef cattle Feedlots)
- (c) Traffic Assessment
- (d) Hydraulic and Nutrient budgets for waste water reuse areas
- (e) Threatened Species Assessment

Items b, c, d & e will be the main focus of the Environmental Impact Assessment provided as part of the application.

Community Consultation will include;

- Liaison with Government Agencies (Council, and Territory)
- Direct communications with immediate neighbours; letter drop and arranged meetings
- Supply of a statement for public release (information pack)
- Direct contact phone line
- Web site based information on the project with monthly updates

EnviroAg Australia (on behalf of Wellard's) and Wellard's will attend a Development Assessment Forum to present the proposed development and to seek guidance from the Northern Territory Government and its agencies and other stakeholders.

8. Summary

The proposed development is located away from neighbour receptors and is well separated from them. It is located next to an existing PEQ yard and neighbours the AA Co meat processing facility. The proposed development is likely to supplement the existing “Santavan” PEQ yard. The development is a land-use that fits within the rural zoning and is proximate to similar land uses.

The development will apply known design principles. It is a modest development (total capacity of 5000 SCU’s and Feedmill) that will deliver, business, environmental, animal welfare and community benefits.

The design delivers a state of the art facility which will enable Wellard’s to well manage the facility, limit environmental impact and exercise best practice management of animal health and welfare.

9. Appendices

Appendix A.	EPBC Act Protected Matters Search Results	A-1
Appendix B.	Drawings & Design	B-1

Appendix A. EPBC Act Protected Matters Search Results



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

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[Summary](#)

[Details](#)

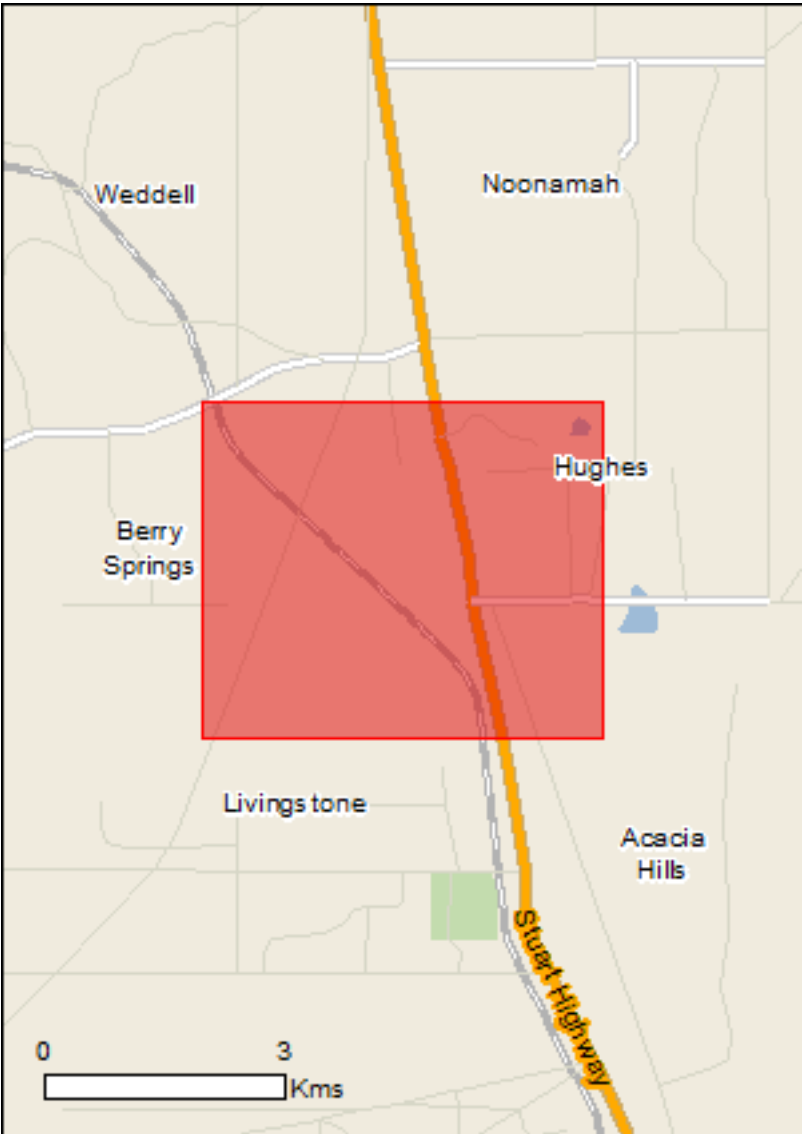
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

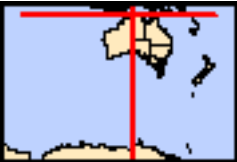
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Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	13
Listed Migratory Species:	11

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As [heritage values](#) of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate.

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	14
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

Place on the RNE:	1
State and Territory Reserves:	None
Regional Forest Agreements:	None
Invasive Species:	23
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Erythrura gouldiae Gouldian Finch [413]	Endangered	Species or species habitat likely to occur within area
Geophaps smithii smithii Partridge Pigeon (eastern) [64441]	Vulnerable	Species or species habitat known to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Tyto novaehollandiae kimberli Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Conilurus penicillatus Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat may occur within area
Dasyurus hallucatus Northern Quoll [331]	Endangered	Species or species habitat known to occur within area
Phascogale pirata Northern Brush-tailed Phascogale [82954]	Vulnerable	Species or species habitat likely to occur within area
Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheathtail Bat [66889]	Critically Endangered	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Atalaya brevialata [86125]	Critically Endangered	Species or species habitat may occur within area
Reptiles		
Acanthophis hawkei Plains Death Adder [83821]	Vulnerable	Species or species habitat known to occur within area
Sharks		
Pristis pristis Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat likely to occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Marine Species		
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area
Migratory Wetlands Species		
Ardea alba Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Reptiles		
Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area

Extra Information

Places on the RNE

[Resource Information]

Note that not all Indigenous sites may be listed.

Name	State	Status
Historic		
North Australia Railway Darwin to Pine Creek	NT	Indicative Place

Invasive Species

[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat likely to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Bubalus bubalis Water Buffalo, Swamp Buffalo [1]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Plants		
Andropogon gayanus Gamba Grass [66895]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat likely to occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Mimosa pigra Mimosa, Giant Mimosa, Giant Sensitive Plant, Thorny Sensitive Plant, Black Mimosa, Catclaw Mimosa, Bashful Plant [11223]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Pennisetum polystachyon Mission Grass, Perennial Mission Grass, Missiongrass, Feathery Pennisetum, Feather Pennisetum, Thin Napier Grass, West Indian Pennisetum, Blue Buffel Grass [21194]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Coordinates

-12.67888 131.05532,-12.67888 131.10041,-12.71608 131.10041,-12.71608 131.05532,
-12.67888 131.05532

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Acknowledgements

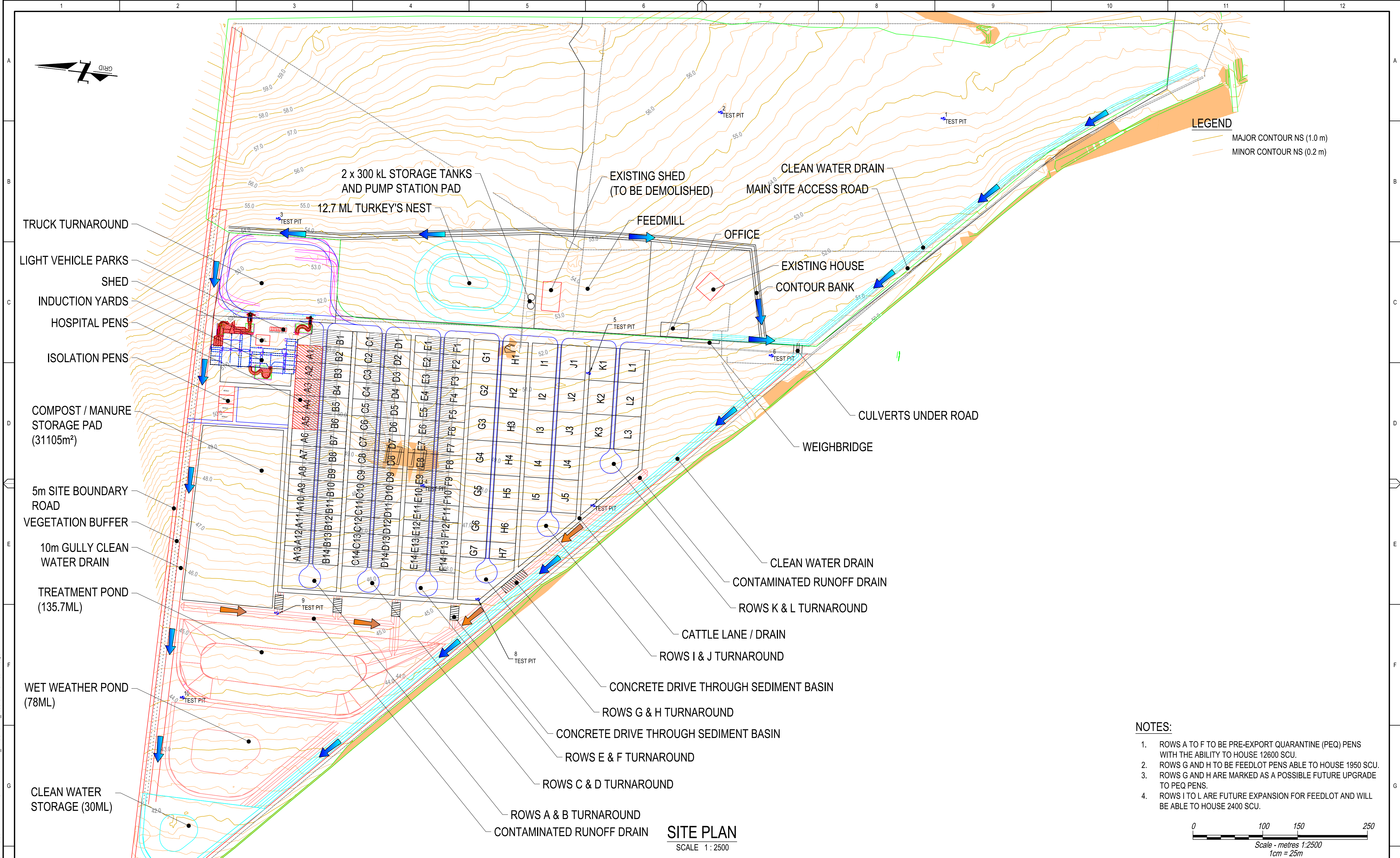
This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [Department of Environment, Climate Change and Water, New South Wales](#)
- [Department of Sustainability and Environment, Victoria](#)
- [Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [Department of Environment and Natural Resources, South Australia](#)
- [Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts](#)
- [Environmental and Resource Management, Queensland](#)
- [Department of Environment and Conservation, Western Australia](#)
- [Department of the Environment, Climate Change, Energy and Water](#)
- [Birds Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [Museum Victoria](#)
- [Australian Museum](#)
- [SA Museum](#)
- [Queensland Museum](#)
- [Online Zoological Collections of Australian Museums](#)
- [Queensland Herbarium](#)
- [National Herbarium of NSW](#)
- [Royal Botanic Gardens and National Herbarium of Victoria](#)
- [Tasmanian Herbarium](#)
- [State Herbarium of South Australia](#)
- [Northern Territory Herbarium](#)
- [Western Australian Herbarium](#)
- [Australian National Herbarium, Atherton and Canberra](#)
- [University of New England](#)
- [Ocean Biogeographic Information System](#)
- [Australian Government, Department of Defence](#)
- [State Forests of NSW](#)
- [Geoscience Australia](#)
- [CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

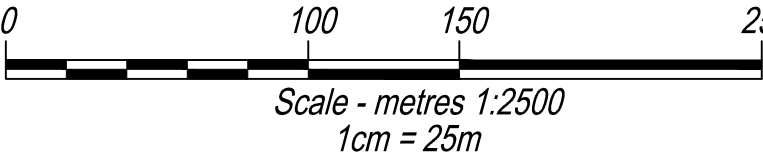
Please feel free to provide feedback via the [Contact Us](#) page.

Appendix B. Drawings & Design



SITE PLAN
SCALE 1 : 2500

- NOTES:**
- ROWS A TO F TO BE PRE-EXPORT QUARANTINE (PEQ) PENS WITH THE ABILITY TO HOUSE 12600 SCU.
 - ROWS G AND H TO BE FEEDLOT PENS ABLE TO HOUSE 1950 SCU.
 - ROWS G AND H ARE MARKED AS A POSSIBLE FUTURE UPGRADE TO PEQ PENS.
 - ROWS I TO L ARE FUTURE EXPANSION FOR FEEDLOT AND WILL BE ABLE TO HOUSE 2400 SCU.



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