

ENVIRONMENT PROTECTION LICENCE

(Pursuant to section 34 of the *Waste Management and Pollution Control Act*)

Licensee	North Australian Beef Limited
Licence Number	EPL219 - 01
Registered Business Address	North Australian Beef Limited 76 Skyring Terrace Newstead QLD 4006
ABN	29 150 153 192
Premises Address	Lot 00004 Hundred of Cavenagh plan(s) LTO82/014A and Section 05543 Hundred of Strangways plan(s) LTO2012/066 270 BLYTH RD, LIVINGSTONE and 2660 STUART HWY, LIVINGSTONE
Anniversary Date:	17 October
Commencement Date:	17/10/2017
Expiry Date:	16/10/2022
Scheduled Activity	<p>Collecting, transporting, storing, re-cycling, treating or disposing of a listed waste (as per Table 1) on a commercial or fee for service basis, other than in or for the purpose of a sewage treatment plant.</p> <p>Operating premises, other than a sewage treatment plant, associated with collecting, transporting, storing, re-cycling, treating or disposing of a listed waste (as per Table 1) on a commercial or fee for service basis.</p>
Description	<p>Recycling and treating a listed waste:</p> <ul style="list-style-type: none"> • By rendering; • By wastewater treatment utilising:

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- A Dissolved air flotation system water treatment plant;
- A 16ML covered anaerobic lagoon;
- A 5.3ML sequencing batch reactor activated sludge unit;
- A single 2.4ML decant basin; and
- A dewatering device and accompanying shed; and
- Flare.

Disposal of a listed waste:

- By irrigation.

Northern Australia Beef Limited is operating an abattoir for processing up to 1000 head of cattle per day. The abattoir includes auxiliary facilities for the production of meat and bone meal and tallow; an on-site wastewater treatment system outlined above. Wastewater from the system described above is irrigated on-site.

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Table 1 - Listed Wastes Authorised to be Handled

Listed Waste	Collection	Transport	Storage	Treatment	Recycling	Disposal
Animal effluent and residues	✗	✗	✓	✓	✓	✓

✓ Activity authorised by this licence

✗ Activity not authorised by this licence

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ATTACHMENTS

There are no attachments

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INFORMATION ABOUT THIS LICENCE

- This licence does not in any way relieve the licence holder from its obligations to comply with the *Waste Management and Pollution Control Act* (WMPC Act), including the general environmental duty in section 12 of the WMPC Act and the duty to notify of incidents causing or threatening to cause pollution under section 14 of the WMPC Act.

Duration of a licence (section 40, 43 and 45 of the WMPC Act)

- A licence will remain in force until its expiry date or until it is surrendered by the licensee or is suspended or cancelled in accordance with the WMPC Act.
- The licensee must notify the Northern Territory Environment Protection Authority (NT EPA) within 14 days after ceasing to conduct the activity.
- The licensee may, with the approval of the NT EPA, surrender the licence to the NT EPA.

Amendment or Revocation of a licence (section 37 of the WMPC Act)

- The licensee may apply to amend or revoke a condition of this licence.
- A fee applies and the application must be made using the designated form via NT EPA Online.
- The NT EPA may also amend or revoke a condition of this licence as set out in section 38 of the WMPC Act.

Transfer of a licence (section 46 of the WMPC Act)

- The licensee can apply to transfer their licence to another person.

Renewal of a licence (section 40 of the WMPC Act and section 3 of the Regulations)

- The licensee may apply for the renewal of their licence not earlier than 90 days, and not later than 30 days, before their licence expires.
- A fee applies and the application must be made via NT EPA Online.

Public Register

- A copy of environment protection licences and any plans for environmental management, reports, submissions or documents required as a condition of an environment protection licence, will be placed on a register in accordance with section 9 of the WMPC Act.
- A copy of the Annual Return will be placed on the register.
- The NT EPA makes this register freely available from the NT EPA website.

Environment Protection Objectives (Part 4 of the WMPC Act), and Water Quality Standards (section 73 of the *Water Act*)

- An Environment Protection Objective (EPO) is a statutory instrument to establish principles on which:
 - a. environmental quality is to be maintained, enhanced, managed or protected;
 - b. pollution, or environmental harm resulting from pollution, is to be assessed, prevented, reduced, controlled, rectified or cleaned up; and
 - c. effective waste management is to be implemented or evaluated.
- In accordance with section 18 of the WMPC Act a beneficial use, quality standard, criteria or objective declared under section 73 of the *Water Act* and in force is an environment protection objective for the purposes of the WMPC Act.

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- The following EPOs and Beneficial Use Declarations (BUDs) are relevant to this licence:
 - Darwin harbour & marine reaches of rivers and creeks
Aquatic Ecosystem Protection and Recreational Water Quality & Aesthetics
Signed 30 August 1996, G37 11/9/1996
 - Darwin & blackmore rivers catchment areas - Groundwater
Raw Water for Drinking Water Supply and Agricultural Water Use
Signed 1 October 1998, G40 14/10/1998
 - Elizabeth & Howard rivers region - Groundwater
Raw water and for drinking and agricultural water use
Signed 31 January 2000 NTGG5 9 Feb 2000
 - Elizabeth & Howard rivers region - Surface water
Aquatic ecosystem protection and recreational water quality and aesthetics
Signed 31 January 2000 NTGG5 9 Feb 2000.

Environmental Interests

- This section highlights sensitivity of the surrounding land use and environment associated with the location of the approved activity.
- Sites of Conservation Significance - Darwin Harbour

Cultural Interests

- It is the licensee's responsibility to contact the Aboriginal Areas Protection Authority, appropriate land council or other governing body and ensure that any Authority Certificates required as a result of conducting the licenced activity are obtained and complied with.

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RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE

- Where there is a discrepancy between the conditions of this licence and any plan, standard, guideline or other document referred to in this licence, the conditions of this licence prevail to the extent of the inconsistency.
- Any reference to any standard (Australian or international) in this licence means the relevant parts of the current version of that standard.
- A reference to any guideline or code of practice (or to the relevant parts of any guideline or code of practice) in this licence means the current version of the guideline or code of practice.
- Under section 39 of the WMPC Act, any contravention of or failure to comply with this licence by the licensee may be an offence.
- In determining whether the licensee has committed an offence, the licensee may be liable for the conduct of its directors, employees or agents.
- The licensee should ensure that each of its directors, employees, contractors or agents are aware of, and comply with, this licence.
- In this licence, unless the contrary intention appears, words that are defined in the WMPC Act are intended to have the meaning given to them in that Act.

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LICENCE CONDITIONS

GENERAL

- 1 The licensee must ensure the contact details recorded in NT EPA Online for this licence are correct at all times.
- 2 The licensee must at all times have a 24 hour emergency contact.
- 3 The licensee must pay the annual fee calculated in accordance with the method prescribed in the Regulations within 50 business days of the anniversary of the commencement date of this licence, for each year or part of a year that this licence is in force.
- 4 The licensee must cause clear and legible signage, in English, to be displayed in a prominent location at each public entrance to the premises that includes the following details:
 - 4.1 environment protection licence number issued under the WMPC Act; and
 - 4.2 24 hour emergency contact details.
- 5 The licensee must cause a copy of this licence to be available for inspection by any person, in hard copy form, at the premises.
- 6 The licensee must provide to the NT EPA, within 10 business days of a request, a copy of any document, monitoring data or other information in relation to the activity, in the format requested by the NT EPA.
- 7 All notices, reports, documents or other correspondence required to be provided as a condition of this licence, unless otherwise specified as a condition of this licence, must be provided in electronic form by uploading the document via NT EPA Online (or by emailing waste@nt.gov.au).
- 8 Within 10 business days of any amendment being made to a document listed in Table 2 the licensee must provide the amended document to the NT EPA, along with:
 - 8.1 a tabulated summary of the amendment(s) with document references;
 - 8.2 reasons for the amendment(s); and
 - 8.3 an assessment of environmental risk associated with the amendment(s).

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Table 2 - Plans for Environmental Management

Document ID	Document Title
	Operational Environmental Management Plan (OEMP), Australian Agriculture Company Limited Meat Processing Facility, Livingston Locality, NT including: Appendix A – EPL219 Appendix B – Risk Matrix Definitions Appendix C – Emergency Response Plan Appendix D – Control of Hazardous Substances Appendix E – Chemical Register Appendix F – MSDS File Locations Appendix G - Environmental Incident Register Appendix H – Process and Render Drawings Appendix I – WWP Operating Manual Appendix J – Biogas Flare Operations and Maintenance Manual Appendix K – Biofilter Operations Manual Appendix L – Irrigation Management Procedures Appendix M – Surface Water Sampling Procedure Appendix N – Groundwater Sampling Procedure Appendix O – WWTP Subsurface Leak Detection Sampling Procedure Appendix P – Odour Monitoring Procedures Appendix Q – Environmental Improvements Register Appendix R – Annual Audit Checklist, Monthly Inspection Checklist, Quarterly Monitoring Checklist, Weekly Inspection Checklist Appendix S – Pest and Vermin Control Appendix T - Consultation and Communication Plan Appendix U - Non-compliance Notification, Non-compliance Trigger Values Exceedance Notification Appendix V - Weed Treatment Record Appendix W - Hard Stand Washdown Operating Procedure, Truck Wash Down Operating Procedure

- 9 The NT EPA may require the licensee to revise or amend and resubmit any amended document. Where the NT EPA requires a document to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 10 Prior to making any alteration at the premises which may affect the air, water or noise emissions from the premises the licensee must update the documents listed in Table 2.
- 11 The licensee must, for the duration of this licence, implement, maintain and follow a Consultation and Communication Plan which includes a strategy for communicating with persons who are likely to have a real interest in, or be affected by, the activity.
- 12 The licensee must operate and maintain a community feedback number.
- 13 The licensee must display the community feedback number:
 - 13.1 where the licensee has a website, in a prominent location on the licensee's website;
 - 13.2 in the Consultation and Communication Plan; and
 - 13.3 in other publicly available documents relating to the activity.
- 14 The licensee must maintain a Complaint Log for all complaints received by the licensee in relation to the

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activity.

- 15 The licensee must ensure that the Complaint Log includes, for each complaint received by the licensee, the following information:
- 15.1 the person to whom the complaint was made;
 - 15.2 the person responsible for managing the complaint;
 - 15.3 the date and time the complaint was reported;
 - 15.4 the date and time of the event(s) that led to the complaint;
 - 15.5 the contact details of the complainant if known, or where no details are provided a note to that effect;
 - 15.6 the nature of the complaint;
 - 15.7 the nature of event(s) giving rise to the complaint;
 - 15.8 prevailing weather conditions at the time (where relevant to the complaint);
 - 15.9 the action taken in relation to the complaint, including any follow-up contact with the complainant; and
 - 15.10 if no action was taken, why no action was taken.
- 16 The licensee must implement, maintain and follow an Emergency Response Plan that addresses procedures for responding to emergencies associated with the activity that may cause environmental harm.
- 17 The licensee must not cause or allow environmental nuisance to occur as a result of activities conducted on the licenced premises.

SITE SUSPENSION OF OPERATIONS

- 18 Conditions 19 to 26 only apply during site suspension of operations.
- 19 The following conditions do not apply to the scheduled activity during site suspension of operations: 29.2, 38, 39.1, 58, 62, 84 and 87.
- 20 The licensee must ensure that plant and equipment is maintained to a standard to prevent environmental harm.
- 21 The licensee must not allow any water to be discharged from the water treatment system during site suspension of operations unless otherwise authorised by the NT EPA.
- 22 Should the licensee be required to discharge treated wastewater to land during site suspension of operations, a plan must be provided to the NT EPA within 10 business days of the proposed discharge date. The plan must include:
- 22.1 the quantity of solid wastes to be disposed of and proposed off site disposal location;
 - 22.2 the volume of treated wastewater to be discharged to land;
 - 22.3 the proposed discharge date and duration of discharge;
 - 22.4 the proposed climatic conditions in which a discharge will occur; and
 - 22.5 planned environmental monitoring following the discharge to land.

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- 23 Prior to any irrigation to land during site suspension of operations sampling must be conducted for the water to be discharged in accordance with the conditions of this licence and the monitoring results provided to the NT EPA.
- 24 The licensee must, prior to site operations recommencing, conduct one monitoring event for groundwater, soil and surface water (if flowing) as required by this licence.
- 25 The licensee must notify the NT EPA within 30 business days of the intention to recommence site operations.
- 26 The licensee must provide with the notification to recommence site operations the following:
- 26.1 animal processing numbers planned at commencement of operations;
 - 26.2 timeframes and procedures for restarting the wastewater treatment system, including how anaerobic microorganisms will be reacclimated to operational flow and nutrient conditions, and how odour will be managed so as not to cause environmental nuisance;
 - 26.3 dates treated wastewater irrigation to land will recommence;
 - 26.4 timeframes for reinstatement of environmental monitoring required by Condition 60;
 - 26.5 community engagement process with surrounding properties to notify of site commencement and to address any community concerns particularly around potential odour from the site;
 - 26.6 timeframes for the construction and commissioning of the Stage 3 pond required by Condition 90; and
 - 26.7 actions that have been taken in response to Section 5.4 recommendations outlined in the Australian Agricultural Company Ltd Annual Monitoring Report 2017 - 2018 dated January 2019.

EARLY SURRENDER OF LICENCE

- 27 Any reports, records or other information required or able to be provided by the licensee under this licence must be submitted to the NT EPA prior to the licensee surrendering the licence. If the date on which a report, record or other information is required falls after the date the licensee requests to surrender this license, the licensee must provide the report, record or information as far as possible using data available to the licensee up to and including the date the request to surrender the licence is made.

OPERATIONAL

- 28 The licensee must not collect, transport, store, recycle, treat or dispose of listed waste other than the listed waste specified in Table 1.
- 29 The licensee must ensure any plant and equipment (including the wastewater treatment system) used in the licensed activity:
- 29.1 is reasonably fit for the purpose and use to which it is put;
 - 29.2 is maintained and operational at all times;
 - 29.3 is operated by a person trained to use the plant and equipment; and
 - 29.4 is operated by, or operated by a person accompanied by, a person trained to handle, store or dispose of listed waste in connection with the activity.

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- 30 The licensee must segregate waste generated at the premises in clearly designated areas for recycling, re-use or disposal.
- 31 The licensee must ensure that litter:
- 31.1 is contained within the boundary of the premises;
 - 31.2 is not deposited or allowed to accumulate in stormwater drain(s), water or leachate dam(s); and
 - 31.3 does not accumulate along the boundary of the premises.
- 32 The licensee must ensure that all materials that are likely to cause environmental harm are handled and stored in areas with a containment system in accordance with the relevant Australian Standard. Where no relevant Australian Standard exists, the containment system must be sized to contain 110% of the volume of the largest container within the area.
- 33 The licensee must ensure that all listed waste being transported to and from the premises is transported by a person licensed under section 30 of the WMPC Act to transport the listed waste.
- 34 The licensee must ensure that all listed waste is delivered to a premises licenced under section 30 of the WMPC Act to receive that listed waste.
- 35 The licensee must:
- 35.1 implement all reasonable and practicable measures to prevent erosion and otherwise prevent stormwater runoff becoming contaminated by the activities on the premises; and
 - 35.2 treat contaminated or potentially contaminated stormwater as necessary to prevent any pollution of waters.
- 36 The licensee must implement an appropriate monitoring system to detect and respond to any potential overflows, leaks or spills from the wastewater treatment system.
- 37 The licensee must ensure that wastewater overflows, leaks and spills do not occur from the wastewater treatment and irrigation systems, including from tanks, ponds and reticulation structures.
- 38 The wastewater management system must be maintained and operated at all times to prevent environmental harm.
- 39 The licensee must:
- 39.1 prevent any stock from grazing in any irrigation areas unless otherwise authorised by the NT EPA;
 - 39.2 ensure that fodder crops grown in irrigation areas are cut and thoroughly dried prior to being fed to stock; and
 - 39.3 ensure that fodder crops are not fed to stock within 5 days of being harvested.

DISCHARGES AND EMISSIONS

- 40 The licensee must ensure there is no migration or overflow of a contaminant or waste, which causes or may cause environmental harm, beyond the boundary of the land on which the premises are located. (For the avoidance of doubt, this condition is not intended to authorise the discharge of a contaminant or waste to any land or water for discharge that has not been specifically authorised by another condition of this licence).

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Discharges to Land

- 41 The licensee must ensure that discharges of treated wastewater to irrigation areas occur only from the authorised discharge point. The authorised discharge point is the irrigation tank shown in Attachment 1.
- 42 The licensee must ensure that discharges of wastewater from the authorised discharge point only occur by irrigation to land within the boundaries of the licensed premises.
- 43 The licensee must ensure that all discharges to land consist only of animal effluent and residue waste treated in the wastewater treatment system.
- 44 The licensee must measure for each discharge to land:
 - 44.1 the time the discharge commenced;
 - 44.2 the duration of the discharge;
 - 44.3 the discharge rate of flow;
 - 44.4 the discharge volume; and
 - 44.5 the application rate ($\text{mm.m}^{-2}.\text{day}$) achieved for each of the areas of land irrigated during the discharge event.
- 45 The licensee must ensure that the discharge to land from all discharge events at the authorised discharge point does not:
 - 45.1 contain any floating debris, oil, grease, petroleum hydrocarbon sheen, scum, litter or other objectionable matter;
 - 45.2 cause environmental nuisance;
 - 45.3 cause surface ponding or run off of wastewater;
 - 45.4 pollute groundwater or water within a waterway;
 - 45.5 cause erosion;
 - 45.6 cause soil degradation; or
 - 45.7 cause spray drift or overspray from being carried beyond the wastewater land disposal areas.
- 46 The licensee must ensure that:
 - 46.1 any land that is to be irrigated with wastewater, is covered with a suitable plant crop;
 - 46.2 the plant crop is well maintained at all times to facilitate uptake of nutrients from the wastewater; and
 - 46.3 crops are routinely harvested and removed from any land which has been irrigated with wastewater.

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- 47 The licensee must ensure that discharges to land from all discharge events do not exceed the wastewater quality limits specified in Table 3.

Table 3 - Required sampling frequency and wastewater quality limits for wastewater applied to land.

Parameter	Units	Wastewater quality limits	Type of limit	Required sampling frequency
Biochemical oxygen demand	mg/L(5-day)	20 30	median ⁺ 90 percentile*	Weekly (not more than 7 calendar days between sampling events)
Dissolved oxygen	mg/L	2	minimum	
Total suspended solids	mg/L	50	90 percentile*	
pH	pH	6.5 – 8.5	range	
Electrical conductivity	µS/cm	2500 3000	median ⁺ maximum	
E.coli	MPN/100ml	10 000 MPN/100ml	90 percentile*	

+ To comply with a median limit the results from 5 out of any 10 consecutive sampling events must comply with the wastewater quality limit(s).

* To comply with a 90 percentile limit the results from 9 out of any 10 consecutive sampling events must comply with the wastewater quality limit(s).

- 48 The licensee must ensure that discharges to land do not exceed the mass load limits specified in Table 4.

Table 4: Limits for mass loads of total nitrogen and total phosphorous applied to irrigation areas during any calendar year

	Maximum application rate to any irrigation area (kg/Ha.year)
Total nitrogen	250
Total phosphorus	60

Air Emissions

- 49 The licensee must not cause or permit environmental nuisance as a result of:

49.1 visible steam;

49.2 smoke;

49.3 odour;

49.4 light;

49.5 dust or particulates; or

49.6 noise.

- 50 The licensee must not emit, or allow to emit, odours that cause environmental nuisance.

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- 51 The biogas flare must be maintained in a manner that:
- 51.1 minimises the visual impact of the flare, particularly at night; and
 - 51.2 complies with Australian Standard 1375 – Industrial Fuel-Fired Appliances Code.

Environmental Audit

- 52 The licensee must undertake an environmental audit to be submitted to the NT EPA within 6 months of site operations recommencing and every two years thereafter to evaluate the extent to which the licensee is compliant with:
- 52.1 this licence;
 - 52.2 the WMPC Act; and
 - 52.3 the *Water Act*.
- 53 The environmental audit must be undertaken by a qualified person.
- 54 The licensee must submit the proposed scope for the environmental audit no later than 20 business days prior to the proposed commencement date of the environmental audit (which must be specified when the proposed scope is submitted), to the NT EPA for review and approval.
- 55 The NT EPA may require the licensee to revise or amend and resubmit any proposed scope for an environmental audit. Where the NT EPA requires the environmental audit scope to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 56 The licensee must ensure that each environmental audit:
- 56.1 is not commenced until written approval of the environmental audit scope is received from the NT EPA; and
 - 56.2 is undertaken in accordance with the approved scope.
- 57 The licensee must ensure that, for each environmental audit undertaken by the licensee:
- 57.1 a written report is prepared and signed by the qualified person who conducted the audit;
 - 57.2 the written report is completed within 2 calendar months of the licensee's receipt of the NT EPA's approval of the environmental audit scope; and
 - 57.3 the written report is provided in full to the NT EPA within 5 business days of being signed by the qualified person.

MONITORING

- 58 The licensee must implement, maintain and follow the Monitoring Plans ("the Monitoring Plan") specified in Table 5.

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Table 5 - Monitoring Plans

Areas of Monitoring	Document Title
Surface Water Monitoring	Water Quality Monitoring Plan, Northern Australia Beef Limited, Meat Processing Facility, Livingstone, Northern Territory (Appendix C of OEMP)
Groundwater Monitoring	Water Quality Monitoring Plan, Northern Australia Beef Limited, Meat Processing Facility, Livingstone, Northern Territory (Appendix D of OEMP)
Wastewater Outlet (prior to irrigation)	Irrigation Management Plan (IMP) Livingstone beef processing facility, Northern Territory (Appendix F of OEMP)
Soil Monitoring	Irrigation Management Plan (IMP) Livingstone beef processing facility, Northern Territory (Appendix F of OEMP)

- 59 The licensee must ensure that any proposed revisions to the Monitoring Plan (other than typographical changes or revisions to formatting or referencing) are:
- 59.1 reviewed by a qualified person, who must produce a written report about their review;
 - 59.2 submitted to the NT EPA with justification for revisions; and
 - 59.3 submitted to the NT EPA, in both hard copy and electronic form with a complete copy of the qualified person's review 20 business days prior to the proposed implementation date.
- 60 The NT EPA may require the licensee to revise or amend and resubmit the Monitoring Plan. Where the NT EPA requires the Monitoring Plan to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 61 The licensee must ensure that samples collected to determine compliance with the wastewater quality limits in Table 3 are collected at the authorised discharge point shown in Attachment 1.
- 62 The licensee must ensure that samples to determine compliance with the wastewater quality limits in Table 3 are collected at intervals not greater than the frequency identified in Table 3.
- 63 The licensee must ensure that all samples and field environmental data are representative of the conditions at the time of sampling.
- 64 The licensee must ensure that all samples and field environmental data are collected in accordance with recognised Australian Standards and guidelines (such as AS/NZS 5667, ANZECC/ARMCANZ).
- 65 The licensee must ensure that all monitoring samples are analysed at a laboratory with current NATA accreditation or equivalent, for the parameters to be measured.
- 66 The licensee must for all land based monitoring points specified in the Monitoring Plan:
- 66.1 install and maintain appropriate identification signage so that they are reasonably identifiable at all times; and
 - 66.2 maintain safe access and egress, as is reasonably practicable.
- 67 The licensee must ensure any samples collected in accordance with the Monitoring Plan or in connection with the activity or this licence, are obtained by, or under the supervision of a qualified sampler.

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- 68 The licensee must ensure that, for each sample collected in accordance with the Monitoring Plan or the activity the following information is recorded and retained:
- 68.1 the date on which the sample was collected;
 - 68.2 the time at which the sample was collected;
 - 68.3 the location at which the sample was collected;
 - 68.4 the name of the person who collected the sample;
 - 68.5 the chain of custody forms relating to the sample;
 - 68.6 the field measurements (if any) and analytical results (if any) relating to the sample; and
 - 68.7 laboratory quality assurance and quality control documentation.
- 69 The licensee must complete a review of the mass loads of total nitrogen and total phosphorus applied to each irrigation area at intervals not exceeding three calendar months after site operations recommence.
- 70 The licensee must notify the NT EPA within 20 business days in the event that a review required under condition 69 indicates the annual mass load limits for total nitrogen and/or total phosphorus in Table 4 of this licence has been exceeded or is likely to exceed the water quality limits.
- 71 For the purposes of condition 70, annual mass load shall be determined on monitoring results for the current quarter plus the previous three quarters.
- 72 The notification referred to in condition 70 must include:
- 72.1 the relevant data and calculations; and
 - 72.2 management actions that will be implemented to achieve compliance with the mass load limits.

RECORDING AND REPORTING

- 73 The licensee must maintain records of the nature, quantities and source of waste, other than listed waste received and generated at the premises following the commencement date of this licence.
- 74 The licensee must keep and maintain records relating to the activity undertaken and the listed waste handled by the licensee.
- 75 Records required to be kept under conditions 73 and 74 must include:
- 75.1 the date of collection;
 - 75.2 the source of the listed waste;
 - 75.3 the name of the transport company, if not the licensee;
 - 75.4 the vehicle registration;
 - 75.5 a description of the listed waste;
 - 75.6 the quantity of the listed waste;
 - 75.7 the final destination of the listed waste; and
 - 75.8 whether the listed waste was stored, recycled, treated or disposed of.
- 76 The licensee must retain records relating to waste, including listed waste, as required by the conditions of this licence, for a period of 2 years after the end of the 12 month period to which the record relates.

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- 77 The licensee must keep records of all non-compliances with this licence. These records must be adequate to enable the licensee to comply with the non-compliance notification conditions of this licence.
- 78 The licensee must notify the NT EPA of any non-compliance with conditions of this licence by completing the Non-Compliance Notification via NT EPA Online (or by emailing waste@nt.gov.au), as soon as practicable after (and in any case within 24 hours after) first becoming aware of the non-compliance.
- 79 The licensee must include in the notification of non-compliance the following information:
- 79.1 when the non-compliance was detected and by whom;
 - 79.2 the date and time of the non-compliance;
 - 79.3 the actual and potential causes and contributing factors to the non-compliance;
 - 79.4 the risk of environmental harm arising from the non-compliance;
 - 79.5 the action(s) that have or will be undertaken to mitigate any environmental harm arising from the non-compliance;
 - 79.6 corrective actions that have or will be undertaken to ensure the non-compliance does not reoccur;
 - 79.7 if no action was taken, why no action was taken; and
 - 79.8 an incident investigation report must be submitted to the NT EPA not more than 20 business days after the incident date.
- 80 The licensee must keep records of all exceedances of trigger values specified in the most current Water Quality Monitoring Plan.
- 81 The licensee must as soon as practicable (and in any case within 24 hours) after becoming aware, notify the NT EPA of an exceedance of a trigger value in the most current Water Quality Monitoring Plan.
- 82 The licensee must ensure that the notification of a trigger value exceedance includes the following information:
- 82.1 when the exceedance was detected and by whom;
 - 82.2 the date and time of the exceedance;
 - 82.3 the actual and potential causes and contributing factors to the exceedance;
 - 82.4 the risk of environmental harm arising from the exceedance;
 - 82.5 the action(s) that have or will be undertaken to address the exceedance and/or environmental harm;
 - 82.6 if no action was taken, why no action was taken; and
 - 82.7 an incident investigation report must be submitted to the NT EPA not more than 20 business days after the incident date.
- 83 The licensee must submit via NT EPA Online a completed Annual Return relating to the preceding 12 months within 10 business days after each anniversary date of this licence.
- 84 The licensee must complete and provide to the NT EPA a Monitoring Report, as prescribed by this licence, within 60 business days after each anniversary date of this licence.

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- 85 The licensee must ensure that each Monitoring Report:
- 85.1 is prepared in accordance with the requirements of the NT EPA 'Guideline for Reporting on Environmental Monitoring';
 - 85.2 includes a tabulation of all monitoring data required as a condition of this licence;
 - 85.3 includes long term trend analysis of monitoring data to demonstrate any environmental impact associated with the activity over a minimum period of three years (where the data is available);
 - 85.4 includes a data analysis and interpretation using the National Water Quality Management Strategy, Australian Guidelines for Water Quality Monitoring and Report, Chapter 6;
 - 85.5 includes results of all regular nutrient balances assessed for the premises to ensure that the nutrient load applied to irrigated land matches the mass of nutrients removed by the harvested crops;
 - 85.6 includes an assessment of compliance against water quality limits as outlined in Tables 3 and 4 and water quality trigger values as outlined in the most recent version of the Water Quality Monitoring Plan; and
 - 85.7 includes an assessment of environmental impact from the activity.
- 86 The NT EPA may require the licensee to revise or amend and resubmit any Monitoring Report. Where the NT EPA requires the Monitoring Report to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.

PERFORMANCE IMPROVEMENT

- 87 The licensee must continually improve infrastructure and operational practices in order to minimise the use of water and the generation of wastewater.
- 88 The licensee must ensure that the Stage 3 pond is installed and fully operational within 6 months of site operations recommencing or by a date agreed with the NT EPA at the time of recommencement of operations.
- 89 The licensee must investigate and provide a written report to the NT EPA on options for the use of biogas from the flare for beneficial purposes within 12 months of site operations recommencing.
- 90 The licensee must provide to the NT EPA prior to site operations recommencing an updated Operational Environmental Management Plan that addresses all recommendations in the Out Task Environmental Review dated 27 March 2019 conducted for the 27 March 2019 Operations Environmental Management Plan (OEMP) - Livingstone Beef processing facility.
- 91 The licensee must, within 6 months of site operations recommencing, provide to the NT EPA an Operational Environmental Management Plan that :
- 91.1 includes sufficient information to inform the development of wastewater quality limits for long term application of wastewater to land from the Stage 3 pond;
 - 91.2 identify monitoring locations within the Stage 3 pond for continuous monitoring of Dissolved Oxygen, temperature and pH, and include an automated control system to ensure effective mixing / aeration;
 - 91.3 includes water quality trigger values and related reporting requirements for monitoring locations within the stage 3 pond and at locations representative of the wastewater applied to irrigation areas;

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- 91.4 includes ongoing comparison of data against the water quality trigger values for chlorophyll-a, dissolved oxygen, pH, total suspended solids and E.coli; and
 - 91.5 includes strategies to manage water quality and odour from the Stage 3 pond through reduction of excessive algal growth, and pond stratification and turn-over.
- 92 The licensee must ensure that wastewater irrigated to any individual irrigation area does not exceed:
- 92.1 1 mm per day on any day that surface water ponding or runoff is occurring from any irrigation area; and
 - 92.2 6 ML.Ha⁻¹.year in any preceding 12 month period.

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END OF LICENCE CONDITIONS

This licence is not valid unless signed below:



Paul Purdon
Executive Director Environment Protection
Delegate of the Northern Territory
Environment Protection Authority
Dated: 24/10/2019

END NOTES

This licence is an amendment and supersedes EPL219 which was issued on 17 October 2017.

The end notes are to assist historical records.

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DEFINITIONS

All terms in the Licence which are defined in the *Waste Management and Pollution Control Act* have the meaning given in that Act unless otherwise or further defined in this section.

DEFINITION	In this licence, unless a contrary intention appears:
24 hour emergency contact	the phone number of a person who can be contacted at any time and be capable of responding to and providing information about any incident associated with the activity.
Activity	the Scheduled activity as described on the covering page of this licence.
Air	includes any layer of the atmosphere.
Annual fee	yearly fee payable in respect of the activity as specified in the WMPC Act and the Regulations.
Annual Return	an NT EPA prescribed format for demonstrating and reporting compliance with the conditions of this licence and providing information on waste volumes for the preceding 12 month period.
ANZECC/ARMCANZ	Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, 2000: National Water Quality Management Strategy: Australian Guidelines for Water Quality Monitoring and Reporting.
Business days	a day not Saturday, Sunday or a public holiday, in the Northern Territory.
Community feedback number	a telephone number enabling members of the public to contact, at any time, a person or voice mail system that can accept, on behalf of the licensee, enquiries or complaints about the activity, and to which the licensee must respond.
Complaint Log	a register of complaints to be maintained by the Licensee that records the details of each complaint received in relation to the activity.
Consultation and Communication Plan	a written plan documenting proposed consultation and communications for the activity before, during and after the activity which includes a strategy for communicating with members of the public who are likely to have a real interest in, or be affected by, the activity.
Contact details	includes the 24 hour emergency contact, and name, position title and phone number of a representative of the licensee who can be contacted about the licence and activity.
Contaminant	a solid, liquid or gas or any combination of such substances and includes: (a) noise, odour, heat and electromagnetic radiation; (b) a prescribed substance or prescribed class of substances; and (c) a substance having a prescribed property or prescribed class of properties.
Discharges	allow a liquid, gas or other substance to flow out from where it has been confined.
Emergency Response Plan	a written plan documenting the licensee's procedures for responding to emergencies caused by, resulting from or associated with the activity and that may cause environmental harm.
Environmental audit	has the meaning given in section 47 of the WMPC Act.

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Environmental harm	(a) any harm to or adverse effect on the environment; or (b) any potential harm (including the risk of harm and future harm) to or potential adverse effect on the environment, of any degree or duration and includes environmental nuisance.
Environmental nuisance	means: (a) an adverse effect on the amenity of an area that: (i) is caused by noise, smoke, dust, fumes or odour; and (ii) unreasonably interferes with or is likely to unreasonably interfere with the enjoyment of the area by persons who occupy a place within the area or are otherwise lawfully in the area; or (b) an unsightly or offensive condition caused by contaminants or waste.
Incident	includes: (a) an accident, emergency or malfunction; and (b) a deliberate action, whether or not that action was taken by the person conducting the activity in the course of which the incident occurred.
Land	includes water and air on, above or under land.
Listed waste	a waste included under Schedule 2 of the Regulations.
Litter	litter, garbage, rubbish, refuse or waste matter, and includes the body of a dead animal.
Maintain	kept in a manner that it does not present or cause a risk of environmental harm or a hazard to persons or property or, for the purposes of documents including plans, a process of reviewing and amending documentation to ensure it is relevant.
Material environmental harm	environmental harm that: (a) is not trivial or negligible in nature; (b) consists of an environmental nuisance of a high impact or on a wide scale; (c) results, or is likely to result, in not more than \$50,000 or the prescribed amount (whichever is greater) being spent in taking appropriate action to prevent or minimise the environmental harm or rehabilitate the environment; or (d) results in actual or potential loss or damage to the value of not more than \$50,000 or the prescribed amount (whichever is greater).
NATA	National Association of Testing Authorities, Australia.
Non-compliance	failure or refusal to comply, whether by act or omission, with obligations or requirements and includes any exceedance of a licence limit.
Non-compliance notification	an NT EPA prescribed format for notifying the NT EPA of a non-compliance.
NT EPA Online	online system for Environment Protection Licence (EPL), Environment Protection Approval (EPA) and Waste Discharge Licence (WDL) lodgement and maintenance.
Plant and equipment	all material items used in association with the activity, including (but not limited to) storage vessels and containers, pipe work and hosing, vehicles (including vessels), tools, and measuring equipment.
Point source discharge	means any discernible, confined or discrete conveyance from which contaminants or waste are or may be discharged.
Pollute	(a) emit, discharge, deposit, or disturb, directly or indirectly, a contaminant or waste; or (b) cause, permit, or fail to prevent, directly or indirectly, the emission, discharge,

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deposition, disturbance or escape of a contaminant or waste.

Pollution	(a) a contaminant or waste that is emitted, discharged, deposited or disturbed or that escapes; or (b) a contaminant or waste, effect or phenomenon, that is present in the environment as a consequence of an emission, discharge, deposition, escape or disturbance or a contaminant or waste.
Premises	the premises identified in this licence which includes equipment, plant and structures, whether stationary or portable, and the land on which premises are situated.
Public entrance	access to the premises that is utilised by the public.
Qualified person	a person registered under Section 68 of the WMPC Act.
Qualified sampler	a person who has training and experience in obtaining samples from the relevant environmental medium.
Regulations	<i>Waste Management and Pollution Control (Administration) Regulations.</i>
Serious environmental harm	environmental harm that is more serious than material environmental harm and includes environmental harm that: (a) is irreversible or otherwise of a high impact or on a wide scale; (b) damages an aspect of the environment that is of a high conservation value, high cultural value or high community value or is of special significance; (c) results or is likely to result in more than \$50,000 or the prescribed amount (whichever is greater) being spent in taking appropriate action to prevent or minimise the environmental harm or rehabilitate the environment; or (d) results in actual or potential loss or damage to the value of more than \$50,000 or the prescribed amount (whichever is greater).
Stormwater	water flowing over ground surfaces, in natural streams and drains as a direct result of rainfall over a catchment and consists primarily of rainfall runoff.
Trigger values	assigned value for each indicator used to assess the risk to an environmental value, a value that initiates some type of pre-defined management action.
Waste	(a) a solid, a liquid or a gas; or (b) a mixture of such substances, that is or are left over, surplus or an unwanted by-product from any activity (whether or not the substance is of value) and includes a prescribed substance or class of substances.
Wastewater	water that contains a contaminant or waste.
Water	includes: (a) surface water, ground water and tidal waters; (b) coastal waters of the Territory, within the meaning of the Coastal Waters (Northern Territory Powers) Act 1980 of the Commonwealth; and (c) water containing an impurity.
WMPC Act	the Northern Territory <i>Waste Management and Pollution Control Act.</i>
Treated wastewater	water that has been treated by the on-site wastewater treatment system for listed wastes authorised to be handled under this licence.
Site Suspension of Operations	The period of time from September 2018 which the Scheduled Activity authorised on page 1 of this licence ceases due to non-processing of animals at the licensed

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premise.

Recommence Site
Operations

The commencement of the scheduled activity any time after September 2018.