

WASTE DISCHARGE LICENCE

(Pursuant to section 74 of the Water Act 1992)

Licensee Department of Industry, Tourism and Trade

Licence Number: WDL252-01

Registered Business

Address:

Level 5, Paspalis Centrepoint, 48 Smith Street, Darwin NT 0800

ABN: 84 085 734 992

Commencement Date: 7 May 2024

Expiry Date: 7 May 2034

Licensed Action: The controlled discharge of wastewater from the former Rum

Jungle mine site, specifically from water treatment plant(s) and dewatering of the Main Pit and the Intermediate Pit to the East Branch Finniss River via the authorised discharge points and

subject to the conditions of this licence.

Premises: Former Rum Jungle mine site, Section 2968 Hundred of

Goyder, 847 Rum Jungle Road, Rum Jungle.

Contents

INFORMATION ABOUT THIS LICENCE	3
SCHEDULE 1 - ITEMS	6
LICENCE CONDITIONS	9
RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE	9
GENERAL	9
OPERATIONAL	10
INVESTIGATIONS AND NOTIFICATIONS	11
MONITORING	12
RECORDING AND REPORTING	13
END OF LICENCE CONDITIONS	15
DEFINITIONS	16
APPENDIX 1: Location of Authorised Discharge and Monitoring Site	18
APPENDIX 2: Location maps	19
APPENDIX 3: Water quality discharge criteria and compliance sampling frequency	20

INFORMATION ABOUT THIS LICENCE

This waste discharge licence is granted pursuant to section 74 of the *Water Act 1992* (NT) (Water Act), which empowers the Controller of Water Resources to, in accordance with the Water Act, grant a licence to a person to carry out an action that would otherwise be an offence against this Act.

Responsibilities of Licensee

- In addition to the conditions set out in this licence, general responsibilities of Licensees are set out in the *Waste Management and Pollution Control Act 1998* (NT) (WMPC Act), the Water Act and the Water Regulations 1992 (NT) (Water Regulations).
- It is an offence under the Water Act, if the holder of a waste discharge licence contravene or cause, suffer or permit a person to contravene a term or condition to which the waste discharge licence is subject (s 76 Water Act).
- Except as expressly provided for in this licence or applicable law, it is an offence under section 16 of the Water Act to wilfully cause or cause, directly or indirectly:
 - o waste to come into contact with water; or
 - water to be polluted.

Duration of Licence

- This licence will remain in force until its Expiry Date, it is surrendered by the Licensee, or until it is suspended or revoked by the Controller of Water Resources.
- A Licensee may surrender its licence at any time (s 94 Water Act).
- If the Licensee wishes to surrender its licence it should complete the notification form available from the Administering Agency.
- Once a licence is surrendered, the authority to allow waste to come into contact with water or water to be polluted ends, and causing waste to come into contact with water or water to be polluted is an offence pursuant to section 16 of the Water Act.

Amendment, Modification or Revocation of Licence

- As set out in section 93 of the Water Act, the Controller of Water Resources may, by notice served on the holder of the licence:
 - o amend or modify the terms and conditions of a licence; or
 - where the Controller of Water Resources is satisfied that the holder of the licence has contravened or failed to comply with a term or condition of the licence or of any other licence previously held by the person for a similar purpose during the 12 months immediately preceding the grant of the first-mentioned licence, the Controller of Water Resources may:
 - revoke a licence: or
 - suspend a licence.

Transfer of Licence

 Where a waste discharge licence is granted to a person in relation to the person's use of land and, during the period of this licence, the person's interest in the land is transferred to another person,

Waste Discharge Licence (WDL252)

the waste discharge licence shall be deemed to have also been transferred to the other person (s 92 Water Act).

• The Licensee must ensure the contact details recorded with the Administering Agency for the licence are correct at all times in accordance with condition 6. Accordingly, it is recommended the transferee complete the notification of transfer of a waste discharge licence form available from the Administering Agency.

Public Register

- A copy of this Licence will be placed on the Register in accordance with section 95 of the Water Act.
- A copy of plans for environmental management, reports, submissions or documents provided at Schedule 1 Item 14 will be placed on the Register.
- The Register is freely available from the Northern Territory Environment Protection Authority (NT EPA) website.

Water Quality Standards

- The Administrator may declare, by notice in the *Gazette*, a beneficial use, quality standard, criteria or objectives which apply in relation to any waste or class of waste, or water or class of water (s 73 Water Act).
- A water or waste beneficial use, quality standard, criteria or objectives declared under s 73 of the Act and in force is an Environment Protection Objective for the purposes of the WMPC Act (s 18 WMPC Act).
- An Environment Protection Objective is a statutory instrument to establish principles on which:
 - o Environmental quality is to be maintained, enhanced, managed or protected;
 - Pollution, or environmental harm resulting from pollution, is to be assessed, prevented, reduced, controlled, rectified or cleaned up; or
 - o Effective waste management is to be implemented or evaluated.
- Schedule 1 Item 1 specifies the beneficial use, quality standard, criteria or objective relevant to this licence at the date of issue.

Environmental Interests

- Environmentally sensitive or significant areas may be captured by and protected under the
 Environment Protection Act 2019 (NT) and/or the Environment Protection and Biodiversity
 Conservation Act 1999 (Cth). As such, and to best protect and regulate our waterways, waste
 discharge licences must identify the sensitivity of the environment surrounding the location of the
 Licensed Action.
- Schedule 1 Item 2 specifies the sites of conservation significance (if any) relevant to this licence at the date of issue.
- Schedule 1 Item 3 specifies the Ramsar wetlands (if any) relevant to this licence at the date of issue.

Cultural Interests

 Under Commonwealth and Northern Territory laws it can be an offence to enter or remain on or damage a sacred site.

- Sites of Aboriginal significance including registered and recorded Aboriginal sacred sites may
 exist in the vicinity of the Licensed Action.
- 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 Licensed Action are obtained and complied with.
- Further specific advice on any cultural requirement or implication of the Licensed Action should be sought from the relevant land council and the Aboriginal Areas Protection Authority.

END NOTES

WDL 252-01 is an amendment to WDL252, issued on 24 April 2024

SCHEDULE 1 - ITEMS

Item		Detail					
1.	Beneficial uses (condition 19)	Fog Bay Area for aquatic ecosystem protection and recreational water quality and aesthetics; Government Gazette No G9, 11 March 1998 and Government Gazette G20, 27 May 1998					
2.	Sites of conservation significance (condition 19)	 Finniss River coastal floodplain SOCS number 4 (NT Parks and Conservation Masterplan Map number 121) – international significance Fog Bay SOCS number 5 (NT Parks and Conservation Masterplan Map number 14) – international significance 					
3.	Ramsar wetlands (condition 19)	Not applicable					
4.	Licence Documents (condition 13)	Nil					
5.	Authorised Discharge Point (condition 20)	ADP1: release point to East Branch Finniss River Downstream of Rum Jungle Road bridge gauge station (EB@GS20)					
		Location to be confirmed in accordance with condition 43. Vicinity is shown in Appendix 2, Figure 1.					
6.	Source(s) of waste (condition 21)	Treated water from the water treatment plant	Location to be confirmed in accordance with condition 43. Vicinity is shown in Appendix 2,				
		Water within Main Pit	Figure 1.				
		Water within Intermediate Pit					
7.	Water quality criteria (condition 21)	The quality of the authorised disc quality limits specified in Appendi	charge must comply with the water ix 3.				
8.	Compliance point (condition 21)	ADP1 - authorised discharge point Location to be confirmed in accordance with condition 43. Vicinity is shown in Appendix 2 Figure 1.					
9.	Limitations on discharge	The discharge must not cause:					
	(condition 21)	(a) erosion of the bed or banks of a waterway					
		(b) mobilisation of contaminated sediments downstream.					
10.	Notifiable incidents (conditions 25 and 26)	(a) An exceedance of water quality criteria specified in item 7 from wastewater from sources specified in Item 6 at the compliance point in Item 8					
		(b) A discharge at a point not specified in Item 5					
		(c) A discharge from a source not specified in Item 6					
		(d) A failure to comply with condition 23.					
11.	Monitoring Program (conditions 27 to 36)	The Monitoring Program includes measurement of discharge volume and water quality in accordance with Appendix 3.					

Item	Detail					
12. Annual Return (condition 38)	The Annual Return is due on: (a) 31 August each year for the period from 1 April the previous year to 31 March in the reporting year; and (b) the Expiry Date of this licence.					
13. Monitoring Report (condition 39)	The Monitoring Report is due on: (a) 31 August each year for the period from 1 April the previous year to 31 March in the reporting year; and (b) the Expiry Date of this licence.					
14. Documents placed on Register (condition 42)	The following documents will be placed on the Register: (a) Location of authorised discharge point and monitoring sites (b) Receiving Environment Monitoring Program specified in Item 15 (c) Annual Return specified in Item 12 (d) Monitoring Report specified in Item 13.					
15. Special conditions (condition 43)	 (a) The licensee must submit the following site maps and location coordinates to the Administering Agency via environmentalregulation@nt.gov.au at least 20 business days prior to commencement of discharge. (i) Site maps that clearly show: a. Location of cadastral boundary of the premises b. Location of water treatment plant(s) c. Authorised Discharge Point (ADP1) d. Release points from the sources of waste water to ADP e. Legend, scale bar and north arrow (ii) A list of the location coordinates in latitude and longitude in decimal degrees to five decimal places for: a. Authorised Discharge Point b. Release points from the sources of waste water to ADP1. (b) The licensee must submit the Receiving Environment Monitoring Program (REMP) – Surface Water, being a component of the integrated REMP required under Environmental Approval EP2023/022 (as amended), to the Administering Agency via environmentalregulation@nt.gov.au at least 20 business days prior to commencement of discharge. (c) The licensee must submit any amendments to the REMP to the Administering Agency within 20 business days after auditor approval. (d) The licensee must ensure the Annual Return required under condition 38 has been reviewed and endorsed by the Site Auditor prior to submission to the Administering Agency. (e) The licensee must ensure the Monitoring Report required under condition 39 and Item 15(b) has been reviewed and endorsed by the Site Auditor prior to submission to the Administering Agency. 					

Item	Detail		
16. Related approvals	(a) Environment Approval EP2023/022 (as amended) issued by the NT Minister for Environment, Climate Change and Water Security under the <i>Environment Protection Act 2019</i> , in accordance with advice from the Northern Territory Environment Protection Authority as provided in Assessment Report 98.		
	(b) Permit EPBC 2016/7730 (as amended) issued by the Commonwealth Minster for the Environment on 7 July 2023 under the Environment Protection and Biodiversity Conservation Act 1999.		

LICENCE CONDITIONS

RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE

- 1. 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.
- 2. Any reference to any standard, guideline or code of practice (Australian or international) in this licence means the relevant parts of the current version of that standard, guideline or code of practice.
- 3. In this licence, unless the contrary intention appears, words that are defined in the Water Act are intended to have the meaning given to them in that Act.
- 4. In this licence, unless a contrary intention appears, terms are defined in the Definitions at the end of this licence.
- 5. In this licence a reference to an Item is a reference to an Item specified in Schedule 1.

GENERAL

- 6. The Licensee must ensure the contact details recorded with the Administering Agency for this licence are correct at all times.
- 7. The Licensee must at all times have a 24 hour emergency contact.
- 8. The Licensee must notify the Administering Agency prior to making any operational change that will cause, or is likely to cause, an increase in the potential for environmental harm.
- 9. The Licensee must display clear and legible signage, in English, in a prominent location at each public entrance to the premises of the Licensed Action that includes the following details:
 - 9.1. waste discharge licence number issued under the Water Act; and
 - 9.2. 24 hour emergency contact details.
- 10. The Licensee must cause a hard copy of this licence to be available for inspection, at the premises of the Licensed Action, by any person on request.
- 11. Unless otherwise specified, within 10 business days of a request, the Licensee must provide to the Administering Agency a copy of any record, document, monitoring data or other information in relation to the Licensed Action in electronic form by emailing environmentalregulation@nt.gov.au.
- 12. 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 emailing environmentalregulation@nt.gov.au.
- 13. Within 10 business days of any amendment being made to a document specified in Item 4, the Licensee must provide the amended document to the Administering Agency, along with:
 - 13.1. a tabulated summary of the amendment(s) with document references;
 - 13.2. reasons for the amendment(s); and
 - 13.3. an assessment of environmental risk associated with the amendment(s).
- 14. This condition has been removed.
- 15. The Administering Agency may require the Licensee to revise or amend and resubmit any document provided in accordance with this licence. Where the Administering Agency requires any document to be revised or amended, the Licensee must submit it to the Administering Agency by the date specified by the Administering Agency.
- 16. The Licensee must operate and maintain a community feedback 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 Licensed Action, and to which the Licensee must respond. The community feedback telephone number must be displayed:
 - 16.1. where the Licensee has a website, in a prominent location on the Licensee's website;

- 16.2. in a Consultation and Communication Plan; and
- 16.3. in other publicly available documents relating to the Licensed Action.
- 17. The Licensee must maintain a register of complaints that records the details of each complaint received in relation to the Licensed Action and provide a copy to the Administering Agency on request. Details of the complaints must (as is reasonably practicable) include, the following information:
 - 17.1. the person to whom the complaint was made;
 - 17.2. the person responsible for managing the complaint;
 - 17.3. the date and time the complaint was reported;
 - 17.4. the date and time of the event(s) that led to the complaint;
 - 17.5. the contact details of the complainant if known, or where no details are provided a note to that effect;
 - 17.6. the nature of the complaint;
 - 17.7. the nature of event(s) giving rise to the complaint;
 - 17.8. prevailing weather conditions at the time (where relevant to the complaint);
 - 17.9. the action taken in relation to the complaint, including any follow-up contact with the complainant; and
 - 17.10. if no action was taken, why no action was taken.

OPERATIONAL

- 18. Without limiting the conditions of this licence, in conducting the Licensed Action, the Licensee must do all things reasonable and practicable to:
 - 18.1. minimise the likelihood of waste coming into contact with water or water being polluted as a result of, or in connection with, the Licensed Action;
 - 18.2. prevent and minimise the likelihood of environmental harm occurring as a result, or in connection with, the Licensed Action;
 - 18.3. effectively investigate, monitor and report on water being polluted as a result of, or in connection with, the Licensed Action;
 - 18.4. effectively investigate, monitor and report on environmental harm and the risk of environmental harm occurring as a result of or in connection with the Licensed Action; and
 - 18.5. apply the principles of ecologically sustainable development.
- 19. The Licensee must, without limiting any other condition of this licence, in conducting the Licensed Action do all things reasonable and practicable to minimise adverse effects to any:
 - 19.1. declared beneficial use, quality, standard or objectives declared under section 73 of the Water Act;
 - 19.2. sites of conservation significance; or
 - 19.3. designated Ramsar wetlands.

including, but not limited to, those specified in Items 1, 2 and 3.

DISCHARGES

- 20. The Licensee must only discharge waste to water from the authorised discharge points specified in Item 5.
- 21. Discharges from each authorised discharge point must:
 - 21.1. consist only of waste from the source(s) specified in Item 6;

- 21.2. not exceed the water quality criteria specified in Item 7 at the compliance point specified in Item 8; and
- 21.3. comply with the limitations specified in Item 9.
- 22. The Licensee must, for each authorised discharge point, install, operate and maintain a device to measure and record, for each discharge event:
 - 22.1. the time the discharge commenced and the duration of the discharge;
 - 22.2. the discharge rate of flow; and
 - 22.3. the discharge volume.
- 23. Discharges from each authorised discharge point must not:
 - contain any floating debris, oil, grease, petroleum hydrocarbon sheen, scum, litter or other objectionable matter;
 - 23.2. cause or generate odours which would adversely affect the use and amenity of surrounding waters;
 - 23.3. cause algal blooms in the receiving water;
 - 23.4. pollute groundwater;
 - 23.5. cause visible change in the behaviour of fish or other aquatic organisms in the receiving water:
 - 23.6. cause mortality of fish or other aquatic organisms;
 - 23.7. cause erosion or degradation to the beds and banks of a watercourse;
 - 23.8. cause mobilisation of contaminated sediments downstream; or
 - 23.9. cause adverse impacts on plants or animals.

INVESTIGATIONS AND NOTIFICATIONS

- 24. Following any exceedance of a water quality limit specified in Item 7 at the compliance point specified in Item 8, the Licensee must:
 - 24.1. investigate the exceedance, including undertaking targeted monitoring, as required, in addition to routine monitoring; and
 - 24.2. take corrective action to mitigate any environmental harm and ensure the exceedance does not reoccur; and
 - 24.3. make a record of:
 - 24.3.1. when the exceedance was detected and by whom;
 - 24.3.2. the date and time of the exceedance;
 - 24.3.3. the actual and potential causes and contributing factors to the exceedance;
 - 24.3.4. the risk of environmental harm arising from the exceedance;
 - 24.3.5. exceedances and details of the investigation and corrective action taken; and
 - 24.3.6. if no action was taken, why no action was taken.
- 25. If one of the incidents specified in Item 10 occurs, the Licensee must notify the Administering Agency by emailing environmentalregulation@nt.gov.au as soon as practicable after (and in any case within 24 hours after) first becoming aware of the incident, including the following information:
 - 25.1. when the incident was detected and by whom;
 - 25.2. the date and time of the incident;
 - 25.3. whether discharge was occurring at the time of the incident and the source of the discharge;

- 25.4. whether discharge is still occurring; and
- 25.5. a date (within 10 business days of the incident) when an investigation report will be submitted to the Administering Agency.
- 26. Within 10 business days of notifying the Administering Agency of an incident specified in Item 10, the Licensee must provide the Administering Agency an investigation report that includes:
 - 26.1. when the incident was detected and by whom;
 - 26.2. the date and time of the incident;
 - 26.3. whether discharge was occurring at the time of the incident and the source of the discharge;
 - 26.4. the actual and potential causes and contributing factors to the incident;
 - 26.5. monitoring data of the discharge, and upstream and downstream water of the incident, collected for the date the incident was detected and three sampling rounds prior;
 - 26.6. available flow rates to demonstrate any influence streams and rivers may have had on the incident;
 - 26.7. rainfall recorded at the site prior to the incident;
 - 26.8. the risk of environmental harm arising from the incident;
 - 26.9. the action(s) that have or will be undertaken to mitigate any environmental harm arising from the incident;
 - 26.10. corrective actions that have or will be undertaken to ensure the incident does not reoccur; and
 - 26.11. if no action was taken, why no action was taken.

MONITORING

- 27. Within 20 business days of commencement of discharge, the Licensee must implement and comply with the Monitoring Program specified in Item 11.
- 28. The Licensee must to the extent practicable collect samples that are representative of discharge conditions that maximises the ability to detect potential impact from the Licenced Action, including collecting samples at sampling points.
- 29. In implementing the Monitoring Program the Licensee must ensure to the extent practicable that samples collected at the sampling points are collected:
 - 29.1. on the same date as discharge event; and
 - 29.2. from the part of the waterway that provides representative (well mixed) samples.
- 30. If a sample is missed or cannot be collected at a sampling point at a frequency set in the Monitoring Program for any reason, the Licensee must revisit the sampling point to collect a sample as soon as possible after the missed collection.
- 31. 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 5667.1 1998, ANZG (2018), as amended).
- 32. For the parameters that require analysis at a laboratory, the Licensee must ensure that:
 - 32.1. all samples are analysed at a laboratory with current NATA accreditation or equivalent; and
 - 32.2. detection and reporting limits are appropriate to determine compliance with this licence.
- 33. The Licensee must ensure any samples collected in accordance with the Monitoring Program or in connection with the Licensed Action or this licence, are obtained by, or under the supervision of a qualified sampler.
- 34. The Licensee must ensure any plant and equipment used by the Licensee in conducting the Monitoring Program:

- 34.1. is reasonably fit for the purpose and use to which it is put, including that it is properly calibrated;
- 34.2. is maintained and operational; and
- 34.3. is operated by a person trained to use the plant and equipment.
- 35. The Licensee must ensure that, for each sample collected in accordance with the Monitoring Program or the Licensed Action, the following information must be recorded and retained:
 - 35.1. the date on which the sample was collected;
 - 35.2. the time at which the sample was collected;
 - 35.3. the location at which the sample was collected;
 - 35.4. the name of the person who collected the sample;
 - 35.5. the chain of custody forms relating to the sample;
 - 35.6. the field measurements (if any) and analytical results (if any) relating to the sample; and
 - 35.7. laboratory quality assurance and quality control documentation.
- 36. The Licensee must for all land based monitoring points specified in the Monitoring Program, where practicable to do so:
 - install and maintain appropriate identification signage so that they are reasonably identifiable at all times; and
 - 36.2. maintain safe access and egress, as is reasonably practicable.

RECORDING AND REPORTING

- 37. The Licensee must keep records of all contraventions with this licence. These records must be adequate to enable the Licensee to comply with the notification and reporting conditions of this licence.
- 38. The Licensee must submit a completed Annual Return, by emailing environmentalregulation@nt.gov.au as specified in Item 12.
- 39. The Licensee must complete and provide to the Administering Agency a report of data and information obtained through the implementation and performance of the Monitoring Program (the Monitoring Report), as prescribed by this licence, as specified in Item 13.
- 40. The Licensee must ensure that each Monitoring Report:
 - 40.1. is prepared in accordance with the requirements of the Administering Agency 'Guideline for Reporting on Environmental Monitoring' (or any other guideline as adopted by the Administering Agency from time to time);
 - 40.2. includes a tabulation, in Microsoft® Excel® format or another format requested by the Administering Agency, of all monitoring data required to be collected in accordance with this licence for the preceding 12 month period;
 - 40.3. includes a tabulation of monthly and annual contaminant loads discharged from the authorised discharge points specified in Item 5 for the preceding 12 month period. Contaminant loads must be calculated for metals, metalloids, nutrients and other parameters (excluding field parameters) listed in the monitoring program specified in Item 11. The calculations must be based on the daily discharge volume and the concentration of contaminant present in the discharge on that day. On the days when a sample was not taken then the concentration of the contaminant must be estimated using Linear Interpolation methodology;
 - 40.4. includes long term trend analysis of monitoring data to demonstrate any environmental impact associated with the Licensed Action over a minimum period of three years (of part thereof);
 - 40.5. includes a summary of any investigations undertaken by the Licensee in accordance with this licence for the preceding 12 month period; and

- 40.6. includes an assessment of environmental impact from the Licensed Action.
- 41. If the licence expires or is otherwise surrendered, suspended or revoked and the licence contained a condition that the Licensee provide a notice, report, record or other information after that date, the Licensee must provide any report, record, information or data available to the Licensee up to and including the date the licence expired or was surrendered, suspended or revoked.
- 42. A copy of the documents listed specified in Item 14 will be placed on the Register.

SPECIAL CONDITIONS

43. The Licensee must comply with the conditions specified in Item 15.

END OF LICENCE CONDITIONS

This licence is not valid unless signed below:

BEN MCTAVISH

Delegate for Controller of Water Resources

Dated the 7 of MAY 2024

DEFINITIONS

In this licence, unless a contrary intention appears:

Term	Definition
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 Licensed Action.
Administering Agency	means the NT Government Department with responsibility for administering the Water Act.
Anniversary Date	annual anniversary of the Commencement Date.
Annual Return	an Administering Agency prescribed format for demonstrating and reporting compliance with the conditions of this licence.
ANZG (2018)	Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia. Available at http://www.waterquality.gov.au/anz-guidelines.
Backfill	means the placement of waste rock that will be excavated from the existing waste storage facilities, treated and placed into the Main Pit to a level that is two metres below the dry season standing water level; a process that is likely to take three years to complete (NT EPA <u>Assessment Report 98</u>).
Business days	a day not Saturday, Sunday or a public holiday, in Darwin, Northern Territory.
Consultation and Communication Plan	a written plan documenting proposed consultation and communications for the Licensed Action before, during and after the Licensed Action 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 Licensed Action.
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 Licensed Action.
Discharge	releasing or allowing a liquid, gas or other substance to flow out from where it has been confined.
End-of-pipe	means a point of discharge from the water treatment plant prior to mixing with any other wastewater or the receiving environment.
Dry season	means 1 May to 31 October.
Independent peer reviewer	same meaning as prescribed by environmental approval EP2023/022
Licensed Action	the Licensed Action as described on the covering page of this licence.
Linear Interpolation	a method to construct new data points within the range of known data points.
	y = y1 + ((x - x1) * ((y2 - y1) / (x2 - x1)))
	y is the unknown concentration between known concentrations y1 and y2
	y1 is the first known concentration
	y2 is the second known concentration
	x is the day of the unknown concentration y
	x1 is the day of the first known concentration y1
	x2 is the day of the second known concentration y2
Litter	litter, garbage, rubbish, refuse or waste matter, and includes the body of a dead animal.

Waste Discharge Licence (WDL252)

NATA National Association of Testing Authorities, Australia. **National Contaminated** means the CRC CARE National Remediation Framework (Remediation Land Remediation Framework - Home), Framework Plant and equipment all material items used in association with the Licensed Action, including (but not limited to) storage vessels and containers, pipe work and hosing, vehicles (including vessels), tools, and measuring equipment. **Pollution** has the same meaning as *pollute* as defined in section 4 of the Water Act. Public entrance access to the licensed premises that is utilised by the public. Qualified sampler a person who has training and experience in obtaining samples from the relevant environmental medium. Receiving environment means the receiving waters downstream of the authorised discharge point, being the East Branch Finniss River (EBFR) and the Finniss River Register the public register available on the website of the Northern Territory Environment Protection Authority (NT EPA). **REMP** means receiving environment monitoring program

impact assessment. Also the scope of this licence.

Site Auditor same meaning as prescribed by environmental approval EP2023/022 (as

amended)

Definition

Term

SPL means species protection level, and is the percentile of species likely to be

protected if the quality of water is greater than the value prescribed. Extrapolated from a species sensitivity distribution model (curve).

means the actions approved under the Environment Protection Act 2019

and described in the NT EPA Assessment Report 98 and the environmental

Suitably qualified person same meaning as prescribed by environmental approval EP2023/022 (as

amended)

wastewater water that contains a waste.

Water Act Water Act 1992 (NT).

Rum Jungle Rehabilitation

Project Stage 3

Wet season means 1 November to 30 April.

WTP water treatment plant(s)

APPENDIX 1: Location of Authorised Discharge and Monitoring Site

Site Code	Site Name	Sampling purpose	Latitude	Longitude		
ADP1	Authorised discharge at release to East Branch Finniss River	Compliance				
MPO	Discharge from Main Pit Outlet to ADP1, prior to release to discharge pipe	Information	To be provided in accordance with condition 43			
IPO	Discharge from Intermediate Pit Outlet to ADP1, prior to release to discharge pipe	Information				
WTPO	Treated effluent from Water Treatment Plant Outlet to ADP1, prior to release to discharge pipe	Information				

APPENDIX 2: Location maps

Rum Jungle Rehabilitation - Proposed Alignment Area for ADP1



Figure 1 - Interim site plan of discharge sources and authorised discharge location¹

¹ Will be replaced by site map to be provided in accordance with condition 43

APPENDIX 3: Water quality discharge criteria and compliance sampling frequency

				Sampling Site Code	AD	P1	
					Water quality limits		
Parameter	Abbrev.	Unit	Sample type	Sampling frequency	70% SPL ³ applies during backfill operations	80% SPL ³ applies after completion of backfill	
Instantaneous flow rate	flow	m³/s	In situ	Continuous, 15 minute data capture ⁵ for 24 hour average calculation	no limit ⁴	no limit ⁴	
Daily flow volume	volume	kL/day	calculated	Continuous, 15 minute data capture ⁵ for 24 hour average calculation	no limit ⁴	no limit ⁴	
Dissolved oxygen		% saturation	In situ	Continuous,	70 - 120	70 - 120	
Electrical conductivity	EC	μS/cm	In situ	μS/cm	15 minute data capture ⁵ for 24 hour	2985	2985
рН	рН			average calculation	6.5 – 8.5	6.5 – 8.5	
Turbidity	turb	NTU			20	20	
Acid neutralising capacity	ANC	mg/CaCO ₃ /L	laboratory	W	no limit ⁴	no limit ⁴	
Ammonia	NH ₃ -N		Filtered (0.45 µm)	W	no limit ⁴	no limit ⁴	
Nitrate	NO ₃ -N	μg/L		W	no limit ⁴	no limit ⁴	
Ortho-phosphate	PO ₄ -P			W	no limit ⁴	no limit ⁴	
Total organic carbon	TOC	mg/l	mg/L Total (unfiltered)	W	no limit⁴	no limit⁴	
Total inorganic carbon	TIC	mg/L		W	no limit ⁴	no limit ⁴	
Aluminium ¹	Al			W	236	150	
Arsenic ¹	As	- μg/L		W	140	140	
Cadmium ¹	Cd		Total and Filtered (0.45 μm)	W	4.3	2.16	
Cobalt ¹	Co			W	89	25.9	
Copper ¹	Cu			W	60.2	27.5	
Iron ¹	Fe			W	300	300	

				Sampling Site Code	ADP1	
					Water quality limits	
Parameter	Abbrev.	Unit	Sample type	Sampling frequency	70% SPL ³ applies during backfill operations	80% SPL ³ applies after completion of backfill
Lead ¹	Pb			W	12.9	9.4
Manganese ¹	Mn			W	759	443
Nickel ¹	Ni			W	130.4	43.1
Selenium ¹	Se			W	2	2
Uranium ¹	U			W	31	22.5
Zinc ¹	Zn			W	210.5	180
Sulfate	SO ₄		mg/L Filtered (0.45 μm)	W	1192	997
Magnesium	Mg			W	86.6	86.6
Calcium	Ca			W	no limit ⁴	no limit ⁴
Chloride	CI			W	no limit ⁴	no limit ⁴
Barium	Ва	mg/L		W	no limit ⁴	no limit ⁴
Sodium	Na			W	no limit ⁴	no limit ⁴
Potassium	К			W	no limit ⁴	no limit ⁴
Bicarbonate	HCO ₂			W	no limit ⁴	no limit ⁴
Total dissolved solids	TDS			W	no limit ⁴	no limit ⁴
Total suspended solids	TSS	mg/L	Total (unfiltered)	W	no limit ⁴	no limit ⁴

Notes:

W: Weekly during discharge

- 1. All metals and metalloids in this table must be measured as total (unfiltered) and 'dissolved' (filtered through 0.45µm nominal filter pore size). Water quality criteria for metals/metalloids are exceeded for the purpose of reporting a non-compliance in accordance with Item 10, Schedule 1, if the dissolved results exceed the value.
- Water quality limits are derived from the Commonwealth Approval EPBC 2016/7730 granted under the Environment Protection and Biodiversity Conservation Act 1999 and the NT Environmental Approval EP2023/022-001 granted under the Environment Protection Act 2019
- 3. SPL = species protection level
- 4. Where no limit is specified at end of pipe, the data is to be collected for information.
- 5. For data capture to be considered continuous, any data gaps must be <10% of data in total for the reporting period.