

Permit

Environmental Protection Act 1994

Environmental authority EPPR00894113

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPR00894113

Environmental authority takes effect on the date it is issued.

The anniversary date of this environmental authority remains the same, 27 February. The payment of the annual fee will be due each year on this day.

The submission of an annual return will be due on 1 March each year.

Environmental authority holder

Name	Registered address
PARADISE RESOURCE RECOVERY PTY LTD	Unit 4 8 Miller St MURARRIE QLD 4172

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening 1: Dredging, in a year, the following quantity of material (c) more than 100,000t but not more than 1,000,000t	545, 543, 725 Paradise Rd Larapinta QLD 4110 – (LOT 1 on RP36898, LOT 1 on SP276611, LOT 10 on SP276611, LOT 11 on SP276611, LOT 12 on SP276611, LOT 13 on SP276611, LOT 14 on SP276611, LOT 15 on SP276611, LOT 16 on SP276611, LOT 2 on SP276611, LOT 3 on SP276611, LOT 4 on SP276611, LOT 5 on SP276611, LOT 6 on SP276611, LOT 7 on SP276611, LOT 8 on SP276611, LOT 9 on SP276611)
ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t	
ERA 53 - Organic material processing Processing more than 200t of organic material in a year – (a) by composting the organic material	645 Paradise Rd Larapinta QLD 4110– (LOT 8 on SP276611)

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise - on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

The anniversary day of this environmental authority is the same day each year as the effective date. The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 March.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Olga Hawas

Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 10 August 2020**Enquiries:**

Waste Assessment
Department of Environment and Science
GPO Box 2454, Brisbane QLD 4001
Phone: 1300 130 372 (Option 4)
Email: palm@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Natural Resources, Mines and Energy (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Agency Interest: General	
Condition number	Condition
G1	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G2	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities .
G3	All records must be kept for a period of at least five years and provided to the administering authority upon request.

G4	<p>Written procedures must be developed and documented within 3 months of the environmental authority taking effect that:</p> <ul style="list-style-type: none"> a) identify all potential risks to the environment from the activity, including during and outside routine operations, during closure and in an emergency; and b) identify measures to prevent or minimise the potential for environmental harm for each of the potential risks identified; and c) establish an inspection and maintenance program for plant and equipment including calibration and servicing that is in accordance with manufacturer's instructions; and d) establish a staff training program on obligations under this environmental authority and the <i>Environmental Protection Act 1994</i> to be conducted as part of staff inductions and at least annually; and e) establish processes to review environmental risks, incidents, performance and complaints.
G5	<p>Written procedures required by condition G4 must be:</p> <ul style="list-style-type: none"> a) implemented; and b) reviewed at least annually; and c) provided to the administering authority upon request at the time and in the format requested.
G6	<p>For plant and equipment, all measures necessary to comply with the conditions of this environmental authority must be:</p> <ul style="list-style-type: none"> a) installed, operated and maintained in a proper and effective manner; and b) in accordance with condition G4.
G7	<p>All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses.</p>
G8	<p>When required by the administering authority, monitoring must be undertaken in the manner prescribed by the administering authority to investigate a complaint of environmental nuisance arising from the activity. The monitoring results must be provided within 10 business days to the administering authority upon its request.</p>
G9	<p>Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.</p>
G10	<p>Three (3) months prior to the ceasing of the environmental activities, the holder of this environmental authority must prepare and progressively implement a Site Rehabilitation Program addressing the following matters:</p> <ul style="list-style-type: none"> a) the final land use of the site; b) the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all works such as buffer distances and batter slopes to avoid slumping of final landform;

	<ul style="list-style-type: none"> c) proposed nature of materials utilised and techniques employed for any proposed backfilling of extracted areas such as filling, compaction, topsoiling, dewatering, overburden return and any other soil amelioration leading to vegetation establishment; d) rehabilitation measures such as irrigation, weed control, suitable native species of vegetation are planted and established, site security and any other remedial works during the rehabilitation works; e) protection of the final landform and newly established vegetation and seedlings from erosion susceptibility; f) prevention or minimisation of windblown dust from any material stockpiles, remnant raw material stockpiles and rehabilitation earthworks; g) prevention of the release of contaminated stormwater runoff from the site, including any treatment of stormwater runoff such that the releases of suspended solids, turbidity and total dissolved salts are not likely to cause environmental harm; h) an implementation program and timetable for all works proposed; and i) keeping of appropriate records of rehabilitation measures implemented including taking of photographs demonstrative of rehabilitation achieved and the submission of an annual rehabilitation progress report to the administering authority with each annual return detailing the outcomes of the rehabilitation program in the preceding twelve (12) months.
G11	A copy of the annual rehabilitation progress report required to be produced under the Site Rehabilitation Program that describes rehabilitation outcomes in the twelve (12) month period preceding submission of the annual return must be submitted to the administering authority when requested.
G12	The holder of this environmental authority must not release, or permit the release of, any construction or demolition waste to any void or pond on the approved place.
G13	<p>The only material to be used for the filling of voids and ponds must be clean rock, clay, sand or soil (excluding any contaminated rock, clay, sand or soil):</p> <ul style="list-style-type: none"> a) obtained from the approved place; or b) obtained from another place subject to compliance with condition G11 and any relevant order of any court.
G14	A natural or revegetated buffer zone of at least 40 metres must be maintained between the top of the high bank of any watercourse and any area of extraction.
G15	Batter slopes to the banks of excavation areas must not be any steeper than a slope of 3:1 (horizontal: vertical).
G16	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.
G17	<p>Three (3) months prior to ceasing the carrying out of the environmentally relevant activities, the holder of this environmental authority must prepare and progressively implement a Site Rehabilitation Program addressing the following matters:</p> <ul style="list-style-type: none"> a) the final land use of the site;

	<ul style="list-style-type: none"> b) the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all works such as buffer distances and batter slopes to avoid slumping of final landform; c) proposed nature of materials utilised and techniques employed for any proposed backfilling of extracted areas such as filling, compaction, topsoiling, dewatering, overburden return and any other soil amelioration leading to vegetation establishment; d) rehabilitation measures such as irrigation, weed control, suitable native species of vegetation are planted and established, site security and any other remedial works during the rehabilitation works; e) protection of the final landform and newly established vegetation and seedlings from erosion susceptibility; f) prevention or minimisation of windblown dust from any material stockpiles, remnant raw material stockpiles and rehabilitation earthworks; g) prevention of the release of contaminated stormwater runoff from the site, including any treatment of stormwater runoff such that the releases of suspended solids, turbidity and total dissolved salts are not likely to cause environmental harm; h) an implementation program and timetable for all works proposed; i) keeping of appropriate records of rehabilitation measures implemented including taking of photographs demonstrative of rehabilitation achieved and the submission of an annual rehabilitation progress report to the administering authority with each annual return detailing the outcomes of the rehabilitation program in the preceding twelve (12) months. j) the allowance for the maintenance of the prescribed buffer distance between Oxley Creek and any lakes or ponds created by the carrying out of the environmentally relevant activities; and k) assessment of the likely impact on the water quality in Oxley Creek and any proposed lakes from rehabilitation works. Matters to be assessed include: <ul style="list-style-type: none"> i. likely uses and environmental values of the waters (including any lakes or ponds); ii. applicable water quality criteria to protect such values; iii. monitoring of water quality to confirm that such water quality criteria are met; and iv. proposed remedial measures if water quality criteria are not met.
G18	A copy of the annual rehabilitation progress report is required to be produced under the Site Rehabilitation Program that describes rehabilitation outcomes in the twelve (12) month period preceding submission of the annual return and must be submitted to the administering authority upon request.
G19	The holder of this environmental authority must ensure that monthly safety inspections are undertaken of the applicable landforms and structures as identified in plan entitled 'Oxley Creek Quarry — Larapinta — RPEQ Monthly Landform Inspections' by AECOM dated 9 November 2012 ('Applicable Landforms and Structures').
G20	The inspections referred to in condition G19 must be carried out by a suitably qualified environmental professional with every third inspection to be undertaken by a person registered with the Registered Professional Engineers of Queensland (RPEQ).
G21	The holder of this environmental authority must submit an inspection report detailing the findings of the inspection referred to in condition G20 containing the signature of the RPEQ, to the administering authority by the end of the first week of the month following the inspection.

G22	The holder of this environmental authority must ensure that the inspection report referred to in condition G21 includes (but is not necessarily limited to): <ul style="list-style-type: none"> a) integrity and safety checks of the Applicable Landforms and Structures; b) a risk assessment of the Applicable Landforms and Structures (to the extent that there has been any relevant change since the previous monthly report); and c) a summary of any repairs conducted on Applicable Landforms and Structures since the previous monthly report.
G23	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority are made available to the administering authority upon request.
Agency Interest: Air	
Condition number	Condition
A1	Odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .
A2	Dust or particulate matter that will have or is likely to have an adverse effect on people living in or using the surrounding area shall not be permitted to emanate beyond the boundaries of the approved place.
Agency Interest: Water	
Condition number	Condition
WT1	Contaminants must not be released to waters .
WT2	The holder of this environmental authority must take reasonable and practicable measures to prevent erosion of creek banks as a result of carrying out the dredging activity.
WT3	All contaminated stormwater runoff from the stockpile(s) and the areas utilised for the operation of the stockpile(s), internal roadways, plant and processing areas must be collected and treated in the settlement ponds or dredge ponds.
WT4	All ponds used for the storage or treatment of contaminants or wastes must be installed and maintained to prevent any discharge through the bed or banks of the pond from causing environmental harm or environmental nuisance in any waters (including groundwaters).
WT5	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained so that a freeboard of not less than 0.5 metres is maintained at all times except by overtopping by floodwaters during flooding of Oxley Creek.
WT6	All ponds used for the storage or treatment of contaminants or wastes must be constructed and maintained to ensure the stability of the ponds construction.
WT7	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the approved site where contact with process raw materials, wastes or contaminants may occur.

Agency Interest: Acoustic																					
Condition number	Condition																				
N1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .																				
N2	<p>In the event of a complaint about noise that constitutes an unreasonable intrusive noise being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the approved place must not result in levels greater than those specified in Table 1.</p> <p>Table 1: Noise Limits.</p> <table border="1"> <thead> <tr> <th colspan="2">NOISE LIMITS AT A NOISE SENSITIVE PLACE</th> </tr> <tr> <th>Period</th> <th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj T}$</th> </tr> </thead> <tbody> <tr> <td>7 am -6 pm</td> <td>Background noise level plus 5 dB(A)</td> </tr> <tr> <td>6 pm - 10 pm</td> <td>Background noise level plus 5 dB(A)</td> </tr> <tr> <td>10 pm -7 am</td> <td>Background noise level plus 3 dB(A)</td> </tr> <tr> <th colspan="2">NOISE LIMITS AT A COMMERCIAL PLACE</th> </tr> <tr> <th>Period</th> <th>Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj T}$</th> </tr> <tr> <td>7 am -6 pm</td> <td>Background noise level plus 10 dB(A)</td> </tr> <tr> <td>6 pm - 10 pm</td> <td>Background noise level plus 10 dB(A)</td> </tr> <tr> <td>10 pm -7 am</td> <td>Background noise level plus 8 dB(A)</td> </tr> </tbody> </table> <p>Associated Requirements:</p> <ol style="list-style-type: none"> 1) The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Science's Noise Measurement Manual. 2) monitoring and recording of the noise levels from the activities must be undertaken for the following descriptors, characteristics, parameters and conditions: <ol style="list-style-type: none"> (i) $L_{Amax, adj T}$; (ii) $L_{A_{bg}, T}$ OR $L_{A90, T}$; (iii) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); (iv) $MaxL_{pA T}$; (v) $L_{Aeq, T}$; (vi) the level and frequency of occurrence of impulsive or tonal noise; (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and (viii) effects due to extraneous factors such as traffic noise (ix) location, date and time of recording. 	NOISE LIMITS AT A NOISE SENSITIVE PLACE		Period	Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj T}$	7 am -6 pm	Background noise level plus 5 dB(A)	6 pm - 10 pm	Background noise level plus 5 dB(A)	10 pm -7 am	Background noise level plus 3 dB(A)	NOISE LIMITS AT A COMMERCIAL PLACE		Period	Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level $L_{Amax, adj T}$	7 am -6 pm	Background noise level plus 10 dB(A)	6 pm - 10 pm	Background noise level plus 10 dB(A)	10 pm -7 am	Background noise level plus 8 dB(A)
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Agency Interest: Land	
Condition number	Condition
L1	The environmentally relevant activities must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to land which may cause such land to become contaminated land .
L2	An area which provides and impervious barrier to subsoil and groundwater must be used for: <ul style="list-style-type: none"> (a) receiving, mixing and sorting processing materials for the activity. (b) collecting and storing leachate.
L3	Treatment and management of acid sulfate soils must comply with the latest edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency Interest: Waste	
Condition number	Condition
W1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
W2	Composting operations at the approved place must only be carried out in the shaded area depicted on the map in Appendix 1 "Paradise Resource Recovery Pty Ltd – Site Layout" Revision A dated May 2020.
W4	The only wastes to be accepted on the approved place for composting are the following materials: <ul style="list-style-type: none"> a) horse manure; b) wastewater from fertiliser manufacturing; c) timber and sawdust – excluding treated timber; and d) green waste.
W5	All reasonable and practicable measures must be taken to exclude vectors and pest species to the extent necessary to prevent: <ul style="list-style-type: none"> e) environmental nuisance to occupiers of neighbouring premises f) any danger or risk to the health of any persons.

Definitions

Key terms and/or phrases used in this document are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

"acid sulfate soil" means a soil, sand, mud or clay containing significant levels of pyrite (iron sulphide), which on exposure to oxidising conditions has resulted in or has the capacity to result in the generation of sulphuric acid in quantities greater than the inherent buffer capacity of the soil.

“activity” means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

"administering authority" means the Department of Environment and Science or its successor.

"background noise level" means either:

$L_{A90, T}$ being the A-weighted sound pressure level exceeded for ninety percent (90%) of the time period of not less than 15 minutes, using Fast response, or

$L_{A90, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

"commercial place" means a place used as an office or for business or commercial purposes.

“environmental nuisance” as defined in Chapter 1 of the *Environmental Protection Act 1994*.

"Intrusive Noise" - means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:

- (a) is clearly audible to, or can be felt by, an individual; and
- (b) annoys the individual.

"land" means land excluding waters and the atmosphere.

“leachate” means a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the site that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

“ $L_{Amax adj, T}$ ” means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

" $MaxL_{pA T}$ " means the absolute maximum instantaneous A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.

"noise" includes vibration of any frequency, whether emitted through air or another medium.

In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be had to *Australian Standard 1055.2 - 1997 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations*.

"noise sensitive place" means:

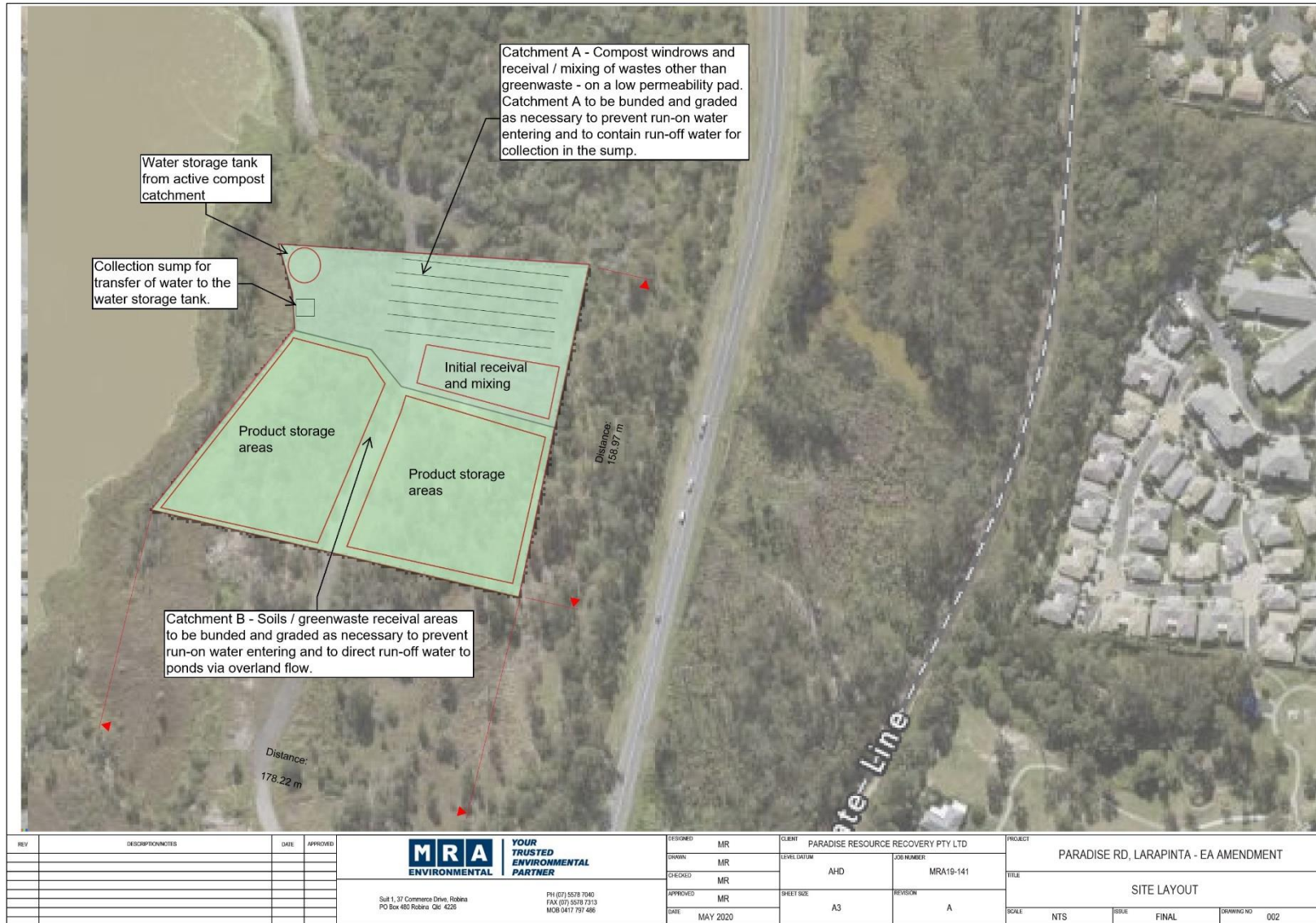
- (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
- (b) a motel, hotel or hostel; or
- (c) a kindergarten, school university or other educational institution; or
- (d) a medical centre or hospital; or
- (e) a **protected area**; or
- (f) a park or gardens.
- (g) for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019.

"protected area" means:

- (a) a protected area under the Nature Conservation Act 1992; and/or
- (b) a marine park under the Marine Parks Act 2004; and/or
- (c) a World Heritage Area.

“**waters**” includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and **groundwater** and any part thereof.

Appendix 1



END OF ENVIRONMENTAL AUTHORITY