Queensland Government

Department of
Environment and Heritage Protection

To: Tablelands Regional Council
PO Box 573
ATHERTON QLD 4883

Email: info@trc.qld.gov.au

Your reference: EPPR00584813
Our reference: 242450

Amendment of an environmental authority to correct a clerical error

1. Environmental authority details

Environmental authority number EPPR00584813.

Land description: Yungaburra Sewage Treatment Plant – Lot 550 on Plan NR7572 Mulgrave Road, YUNGABURRA QLD 4872, Atherton Sewage Treatment Plant – Lot 1 on Plan RP889324 Grove Street, ATHERTON QLD 4883, Tinaroo Sewage Treatment Plant - Lot 3 on Plan RP836158 Tinaroo Falls Road, TINAROO QLD 4883, Ravenshoe Sewage Treatment – Lot 255 on Plan CWL1731 Aschem Road, RAVENSHOE QLD 4872, Millaa Millaa Sewage Treatment Plant – Lot 601 on Plan CP840989 Main Street, MILLAA MILLAA QLD 4886, Malanda Sewage Treatment Plant - Lot 2 on Plan RP735188, Lot 41 on Plan NR4169 (irrigational area), Lot 11 Plan SP241954 (irrigational area) and Lot 10 Plan SP241954 (Same lot as the Malanda Refuse Tip), Topaz Refuse Tip – Lot 82 on Plan NR808386 (Reserve 2128) Topaz Road, TOPAZ QLD 4885, Millaa Millaa Tip – Lot 510 on Plan NR7893 (Reserve 2064) Theresa Creek Road, MILLAA MILLAA QLD 4886, Malanda Refuse Tip – Lot 10 SP241954 English Road, MALANDA QLD 4885, Yungaburra Refuse Tip – Lot 550 on Plan NR7572 (Reserve 2063) Mulgrave Road, YUNGABURRA QLD 4872, Peeramon Waste Disposal – Lot 56 on Plan NR1118 (Reserve 511) Wharton Street, PEERAMON QLD 4885, Atherton Landfill – Lot 100 SP252409 Herberton Road, CARRINGTON QLD 4883, Alcatraz Landfill – Lot 41 on Plan SP158034 Kennedy Highway, INNOT HOT SPRINGS QLD 4872, Ravenshoe Landfill – Lot 308 on Plan CWL2530 Kennedy Highway, HERBERTON QLD 4872, Herberton Sanitary Depot – Lot 1 on Plan CP818023 Atherton – Herberton Road, HERBERTON QLD 4872, Herberton Landfill – Lot 250 on Plan CWL840900 Syme Road, HERBERTON QLD 4872, Atherton Quarry – Lot 851 NR6413 Carrington Falls Road, CARRINGTON QLD 4883, Allen Deco Pit – Lot 438 on Plan FTY1917 Allen Road, RAVENSHOE QLD 4872, Allen Maintenance Pit – Lot 438 on Plan FTY1917 Allen Road, RAVENSHOE QLD 4872, Running Creek Pit – Lot 623 on Plan SP148822 Kennedy Highway, RAVENSHOE QLD 4872, Penna Pit – Lot 1 on Plan AP17369 Silver Valley Road, SILVER VALLEY QLD 4872, Mobile and Temporary activity - EPPR00584813.

Amanda Gray
Heritage, Utilities and Government Organisations Assessment
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: 07 3330 6037
Email: amanda.gray@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

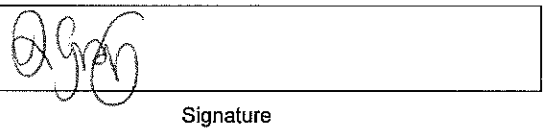
2. Amendment

The administering authority has become aware that there are clerical errors on the environmental authority that require correction.

The amended environmental authority is enclosed with this notice.

Should you have any further enquiries, please contact Amanda Gray on telephone 1300 130 372.

Yours sincerely

	27/9/17
Signature	Date

Amanda Gray
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR00584813)

Permit[1]

Environmental Protection Act 1994

EPPR00584813

Environmental authority

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

Permit[1] number: EPPR00584813

Environmental authority takes effect upon signing by the Delegate

The anniversary date of this environmental authority remains **1 August** each year. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Principal address
Tablelands Regional Council	45 Mabel Street ATHERTON QLD 4883

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
ERA 63(1b)(i) Sewage Treatment >100 but <1500EP with treated effluent discharged to an infiltration trench or irrigation scheme	Yungaburra Sewage Treatment Plant – Lot 550 on Plan NR7572 Mulgrave Road, YUNGABURRA QLD 4872
ERA 63(1d) Sewage Treatment >4000 but <10000EP ERA 58 – Regulated Waste Treatment (operating a facility for the receiving and treating regulated waste	Atherton Sewage Treatment Plant – Lot 1 on Plan RP889324 Grove Street, ATHERTON QLD 4883
ERA 63(1b)(ii) Sewage Treatment >100 but <1500EP with treated effluent discharged other than as in 2(b)i	Tinaroo Sewage Treatment Plant - Lot 3 on Plan RP836158 Tinaroo Falls Road, TINAROO QLD 4883
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ERA 63(1a)(i) Sewage Treatment >21 but <100EP with treated effluent discharged to an infiltration trench or irrigation scheme	Millaa Millaa Sewage Treatment Plant – Lot 601 on Plan CP840989 Main Street, MILLAA MILLAA QLD 4886

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Queensland Government

ERA 63(1c) Sewage Treatment >1500 but <4000EP	Malanda Sewage Treatment Plant - Lot 2 on Plan RP735188, Lot 41 on Plan NR4169 (irrigational area), Lot 11 Plan SP241954 (irrigational area) and Lot 10 Plan SP241954 (Same lot as the Malanda Refuse Tip).
ERA 60(2a) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >50t but <2000t per year	Topaz Refuse Tip – Lot 82 on Plan NR808386 (Reserve 2128) Topaz Road, TOPAZ QLD 4885
ERA 60(2b) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >2000t but <5000t per year	Millaa Millaa Tip – Lot 510 on Plan NR7893 (Reserve 2064) Theresa Creek Road, MILLAA MILLAA QLD 4886
ERA 60(2c) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >5000t but <10000t per year	Malanda Refuse Tip – Lot 10 SP241954 English Road, MALANDA QLD 4885
ERA 60(2c) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >5000t but <10000t per year	Yungaburra Refuse Tip – Lot 550 on Plan NR7572 (Reserve 2063) Mulgrave Road, YUNGABURRA QLD 4872
ERA 60(1a) Waste Disposal Facility (any combination of regulated waste, general waste and limited regulated waste – and <5t untreated clinical wastes if in a scheduled are): <50000t per year	Peeramon Waste Disposal – Lot 56 on Plan NR1118 (Reserve 511) Wharton Street, PEERAMON QLD 4885
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ERA 16(2a) Extracting rock or other material: 5000-100000t per year	Atherton Quarry – Lot 851 NR6413 Carrington Falls Road, CARRINGTON QLD 4883
ERA 16(2a) Extracting rock or other material: 5000-100000t per year	Allen Deco Pit – Lot 438 on Plan FTY1917 Allen Road, RAVENSHOE QLD 4872

ERA 16(3a) Screening rock or other material: 5000-100000t per year	
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ERA 16(2a) Extracting rock or other material: 5000-100000t per year ERA 16(3a) Screening rock or other material: 5000-100000t per year	Penna Pit – Lot 1 on Plan AP17369 Silver Valley Road, SILVER VALLEY QLD 4872
ERA 57(2b) Regulated Waste Transport (other than tyres) in 6 – 35 vehicles	Mobile and Temporary activity

Additional information for applicants

Environmentally relevant activities

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

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

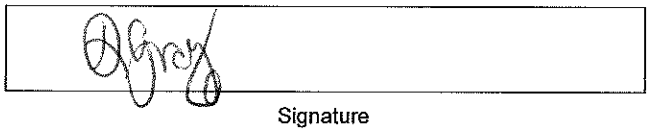
A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

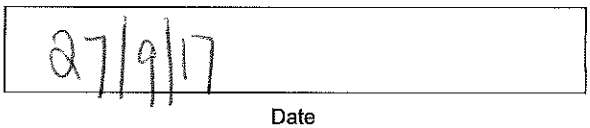
It is a requirement of the EP Act that an owner or occupier of land give written notice to the chief executive if they become aware of the following:

- a notifiable activity (as defined in Schedule 3) that is being, or has been, carried out on the land (notice must be given within 20 business days)
- an event involving a hazardous contaminant on the land, or a change in the condition of the contaminated land, that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours).

For further information, including the form for giving written notice, refer to the Queensland Government website http://www.qld.gov.au/ (using the search term 'managing contaminated land').



Signature



Date

Amanda Gray
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: 07 3330 6037
palm@ehp.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)

Conditions of environmental authority

Part 1 - General Conditions for all Sites

Environmentally relevant activities	Locations
ERA 63(1b)(i) Sewage Treatment >100 but <1500EP with treated effluent discharged to an infiltration trench or irrigation scheme	Yungaburra Sewage Treatment Plant – Lot 550 on Plan NR7572 Mulgrave Road, YUNGABURRA QLD 4872
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ERA 57(2b) Regulated Waste Transport (other than tyres) in 6 – 35 vehicles	Mobile and Temporary activity

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following general conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1-1	All reasonable and practicable **measures** must be taken to prevent the likelihood of environmental harm being caused.
G1-2	Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the Environmental Protection Act, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile or submission of a program notice in accordance with Section 350 of the Act. **Note:** The notification of emergencies and incidents required under this condition must also include any of the following events - sewage pump failures, sewage pump station overflows or any other incident resulting in the release of raw sewage to the environment.

G1-3	Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the Environmental Protection Act, the notification of emergencies or incidents as required by condition G1-2 must, unless a program notice in accordance with Section 350 of the Act is submitted, include but not be limited to the following: (a) the holder of this environmental authority; (b) the location of the emergency or incident; (c) the number of the environmental authority; (d) the name and telephone number of the designated contact person; (e) the time of the release; (f) the time the holder of this environmental authority became aware of the release; (g) the suspected cause of the release; (h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and (i) actions taken to prevent any further release and mitigate any environmental harm and or environmental nuisance caused by the release.
G1-4	Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the Environmental Protection Act, not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of this environmental authority must provide written advice of the information supplied in accordance with condition number G1-3 in addition to: (a) proposed actions to prevent a recurrence of the emergency or incident; (b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
G1-5	If a program notice has been submitted under Section 350 of the Act, condition G1-4 will have been complied with if the required information is submitted by the date specified in a Section 352 notice requiring submission of a draft Environmental Management Program.
G1-6	The holder of this environmental authority must, unless a program notice in accordance with Section 350 of the Act is submitted, notify the administering authority in writing of any monitoring result which indicates an exceedance of any environmental authority limit within twenty-eight (28) days of completion of analysis.
G1-7	The written notification required by condition G1-6 above must include: (a) the full analysis results; (b) details of investigation or corrective actions taken; and (c) results of any subsequent analysis carried out to verify the success of any corrective actions taken.
G1-8	If a program notice has been submitted under Section 350 of the Act, condition G1-7 will have been complied with if the required information is submitted by the date specified in a Section 352 notice requiring submission of a draft Environmental Management Program.

G1-9	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G1-10	All information and records required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
G1-11	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G1-12	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.
G1-13	An annual monitoring report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.
G1-14	**You** must record the following details for all environmental **complaints** received: a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
G1-15	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a **complaint** not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.
G1-16	The **activity** must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the **activity** during routine operations, closure and an emergency 2. establish and maintain control **measures** that minimise the potential for environmental harm 3. ensure plant, equipment and **measures** are maintained in a proper and effective condition 4. ensure plant, equipment and **measures** are operated in a proper and effective manner 5. ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.
G1-17	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system.**

G1-18	Sampling must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
Agency interest: Waste	
Condition number	**Condition**
W1-1	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
W1-2	The holder of this environmental authority must not: (a) burn waste at or on any licensed place covered by this environmental authority unless otherwise authorised by the administering authority; nor (b) allow waste to burn or be burnt at or on any licensed place covered by this environmental authority unless otherwise authorised by the administering authority; nor (c) remove waste from any licensed place covered by this environmental authority and burn such waste elsewhere except in accordance with the requirements of the Environmental Protection Act 1994.

Part 2 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 63(1b)(i) Sewage Treatment >100 but <1500EP with treated effluent discharged to an infiltration trench or irrigation scheme	Yungaburra Sewage Treatment Plant – Lot 550 on Plan NR7572 Mulgrave Road, YUNGABURRA QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Water	
Condition number	**Condition**
WT2-1	Contaminants must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the discharge of treated sewage effluent to Petersen Creek at Release Point W1 at the location shown in the Schedule 1 of this environmental authority and only then in periods of wet weather when: (a) no further irrigation of effluent in accordance with this environmental authority is possible; and (b) all wet weather effluent storage ponds are full to capacity.
WT2-2	Release Point W1 must be submerged at all times while treated sewage effluent is being discharged to Petersen Creek.
WT2-3	The total quantity of treated sewage effluent discharged from Release Point W1 during any wet weather day must not exceed 1,000 cubic metres.

WT2-4

The discharge of treated sewage effluent to waters from Release Point W1 must comply, at the sampling and in situ measurement point specified in this environmental authority, with each of the limits specified in Table 1 - Release Quality Characteristic Limits for each quality characteristic.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (mg/l)	5 10	50th percentile maximum
Suspended Solids (mg/l)	5 10	50th percentile maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Ammonia Nitrogen (mg/l)	1	maximum
Total Nitrogen (mg/l)	5 10	50th percentile maximum
Total Phosphorus as P (mg/l)	0.5 1	50th percentile maximum
Oil and Grease (mg/l)	10	maximum
Faecal Coliforms (Organisms/100 ml)	200 800	geometric mean[1] 80th percentile

Note: [1]Geometric mean must be based on the results of at least five samples, with individual samples being collected at intervals of not less than thirty (30) minutes.

WT2-5

The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released to waters and land for the quality characteristics and at not less than the frequency specified in Table 2 - Monitoring Frequency.

WT2-6

Determinations of the quality of contaminants released to waters and land to check conformity with the release quality characteristics specified in this environmental authority must be undertaken on samples of final effluent collected at its exit point from the sewage treatment plant.

Table 2 - Monitoring Frequency

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-day Biochemical Oxygen Demand	***monthly***
Suspended Solids	***monthly***
pH	***monthly***
Specific Conductance	***monthly***
Dissolved Oxygen	monthly
Temperature - Celsius degrees	monthly
Ammonia Nitrogen	***monthly***
Total Nitrogen	***monthly***
Total Phosphorus as P	***monthly***
Oil and Grease	monthly
Faecal Coliforms (Organisms/100 ml)	***monthly***
Total Aluminium	***annually***
Extractable Aluminium	***annually***
Total Copper	***annually***
Total Iron	***annually***
Total Lead	***annually***
Total Boron	***annually***
Total Zinc	***annually***
Total Chloride	***annually***
Total Sodium	***annually***

Note:

(a) All samples collected for annual quality characteristic determination must be composites of at least five (5) separate grab samples collected and preserved at least one (1) week apart.
(b) Quality characteristics for which the sampling frequency is highlighted in bold and italics must be sampled at the specified minimum frequency whether or not a release to waters is taking place.

WT2-7

An environmental impact monitoring program must monitor the impact of the discharge of treated sewage effluent from the licensed place on the water quality of Petersen Creek and Tinaroo Dam.

WT2-8

The release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter

Agency interest: Noise

Condition number	Condition
N2-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 3 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 3 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Land

Condition number	Condition
L2-1	The holder of this environmental authority must ensure that there are at least twenty (20) hectares of land available for irrigation of treated sewage effluent.

L2-2

Treated sewage effluent either irrigated to land under the control of the holder of this environmental authority or supplied to any other person or body for irrigation to land must comply at, at the sampling and in-situ measurement point/s specified, with each of the release limits specified in Table 4 - Release Quality Characteristic Limits for each quality characteristic.

Table 4 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (mg/l)	5 10	50th percentile maximum
Suspended Solids (mg/l)	5 10	50th percentile maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Ammonia Nitrogen (mg/l)	1	maximum
Total Nitrogen (mg/l)	no limit	
Total Phosphorus as P (mg/l)	no limit	
Oil and Grease (mg/l)	10	maximum
Faecal Coliforms (Organisms/100 ml)	200 800	geometric mean(1) 80th percentile

Note: (1)Geometric mean must be based on the results of at least five (5) samples, with individual samples being collected at intervals of not less than thirty (30) minutes.

L2-3

Any extension of the area used for irrigation of treated sewage effluent to land (other than for maintenance of the grounds and gardens around the sewage treatment plant generating the effluent), or supply of treated sewage effluent by the holder of this environmental authority to another person or body for irrigation to land under any new re-use scheme, may only take place:

(a) in accordance with the *Environmental Protection Act 1994*; and

(b) after the holder of this environmental authority has carried out an investigation into:

(i) the ecological sustainability of the irrigation or re-use proposal; and

(ii) the suitability for irrigation with treated sewage effluent of the land to be used; and

(iii) Best Practice Environmental Management (BPEM) to minimise any environmental harm resulting from the irrigation.

L2-4

When weather conditions or soil conditions preclude the release of contaminants, the contaminants must be directed to wet weather storage(s) which must be designed and constructed:

(a) with bunds and/or cut-off drains to divert surface stormwater runoff around the storage(s); and

(b) to have a total holding capacity of forty (40) megalitres; and

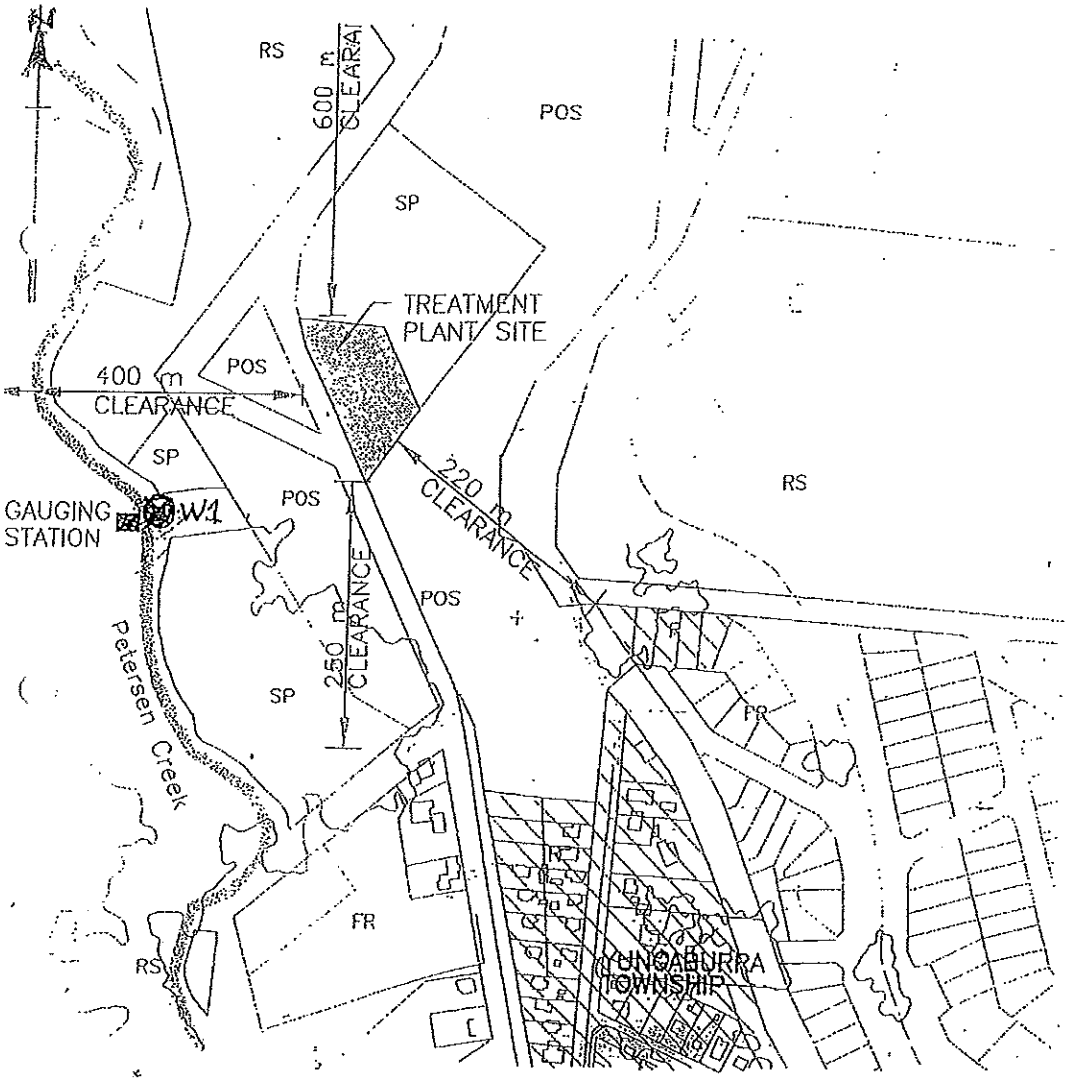
(c) so as to minimise seepage to groundwater.

L2-5

The wet weather storage(s) must be designed and operated to have a total excess capacity of at least 5,000 cubic metres (5 megalitres) at all times, except in the period after wet weather when they have been filled to capacity and before the excess effluent can be disposed of by irrigation.

L2-6	Treated effluent released to land must be done in accordance with documentation that ensures: (a) drainage to groundwater and subsurface flows of contaminants to surface waters are prevented (b) surface pondage and run-off of effluent is prevented (c) degradation of soil structure is minimised (d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised (e) spray drift or overspray does not carry beyond effluent disposal areas (f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake (g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L2-7	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.
Agency interest: Waste	
Condition number	**Condition**
W2-1	A composite sample, of the sludge generated since the previous sample was taken, must be taken at least once in each three (3) years and analysed for the concentrations of the following parameters: (a) total zinc; (b) total chromium; and (c) total cadmium; and (d) total organochlorine pesticides.

SCHEDULE 1 - Yungaburra Sewage Treatment Plant - Site Plan and Location of Release Point W1.



Part 3 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 63(1d) Sewage Treatment >4000 but <10000EP ERA 58 – Regulated Waste Treatment (operating a facility for the receiving and treating regulated waste)	Atherton Sewage Treatment Plant – Lot 1 on Plan RP889324 Grove Street, ATHERTON QLD 4883

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Water	
Condition number	**Condition**
WT3-1	The **activity** must be undertaken in accordance with written procedures that: 1. address the monitoring requirements of the appropriate parts of this environmental authority and also the following issues: (a) monitoring of metals and other parameters likely to be found in the effluent (based on the type of wastes going to sewer in accordance with trade waste agreements in the catchment for the sewage treatment plant); and (b) monitoring of metals (eg. boron and cadmium) and other parameters which are generally found in sewage effluent and have a potential to cause harm to irrigated plants or the biodiversity of receiving waters; and (c) frequency of sampling to ensure the suitability of the effluent for irrigation and/or discharge to receiving waters; and (d) carrying out an annual review of the monitoring program against the trade waste agreements in effect for the sewage treatment plant to ensure that the parameters being monitored are appropriate for the types of contaminants being discharged to the sewer; and (e) monitoring of bacteria from sewage effluent in receiving waters to ensure that the standards appropriate to the uses of those receiving waters are being maintained
WT3-2	An Environmental Impact Monitoring Program must be developed and implemented which will effectively and appropriately monitor the impact of the activities carried out at the licensed place on receiving waters likely to be significantly affected and addresses at least the following issues: 1. defining and monitoring of potential effects on the environment including effects on: a. flora and fauna communities (such as aquatic plants and aquatic vertebrates); and b. ambient environmental quality in receiving waters; and 2. the relationship between the effluent discharge and environmental quality indicators, including biodiversity.

WT3-3	Sewage or treated sewage effluent must not be directly or indirectly released from any source on the licensed place to any waters other than: (a) overflows from the sewage reticulation system in accordance with the requirements of this environmental authority; and (b) the discharge of treated effluent from Release Point W1 to Mazlin Creek as shown in Schedule 2.
WT3-4	The total quantity of contaminants released from Release Point W1 during any dry weather day must not exceed 2,200 cubic metres.
WT3-5	The release of contaminants to waters from Release Point W1 must comply, at the sampling and in situ monitoring point specified with each of the limits specified in Table 1 - Release Quality Characteristic Limits for each quality characteristic.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-Day Biochemical Oxygen Demand (mg/l)	5 10 20	80th percentile (long term) 80th percentile (short term) maximum
Suspended Solids (mg/l)	7 15 30	80th percentile (long term) 80th percentile (short term) maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Free Residual Chlorine (mg/l)	0.7(1)	maximum
Ammonia Nitrogen (mg/l) (2)	2 4	80th percentile (long term) maximum
Total Nitrogen (mg/l)	5 10	50th percentile maximum
Total Phosphorus as P (mg/l)	1 2	50th percentile maximum
Oil and Grease (mg/1)	10	maximum
Faecal Coliforms (Organisms /100 ml)	150(3) 600	median(4) 80th percentile(5)

Notes:

1. Measured at the chlorine contact tank after a minimum twenty (20) minutes detention period.
2. The holder of this environmental authority must further dilute the effluent whenever necessary to ensure that the measured ammonia concentration in water at Mazlin Creek does not exceed 1 mg/litre.
3. ANZECC standards for primary contact recreation (swimming, bathing and other direct water-contact sports).
4. Median for this quality characteristic must be based on the results of at least five samples, with individual samples being collected at intervals of not less than thirty (30) minutes.
5. "80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the release limit for any more than one out of five

WT3-6	The release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.
WT3-7	The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the effluent released from the sewage treatment plant for the quality characteristics and not less frequently than the frequency specified in Table 2 - Monitoring Frequency.
WT3-8	Determinations of the quality of effluent released to waters to check conformity with the release quality characteristics specified in Table 1 of this environmental authority must be undertaken on samples collected at the exit from the sewage treatment plant. **Table 2 - Monitoring Frequency**

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-Day Biochemical Oxygen Demand	fortnightly
Suspended Solids	fortnightly
pH	weekly
Specific Conductance	weekly
Dissolved Oxygen	weekly
Temperature - Celsius degrees	weekly
Ammonia Nitrogen	fortnightly
Free Residual Chlorine	fortnightly
Oil and Grease	fortnightly
Faecal Coliforms (Organisms/100 ml)	fortnightly

Agency interest: Noise

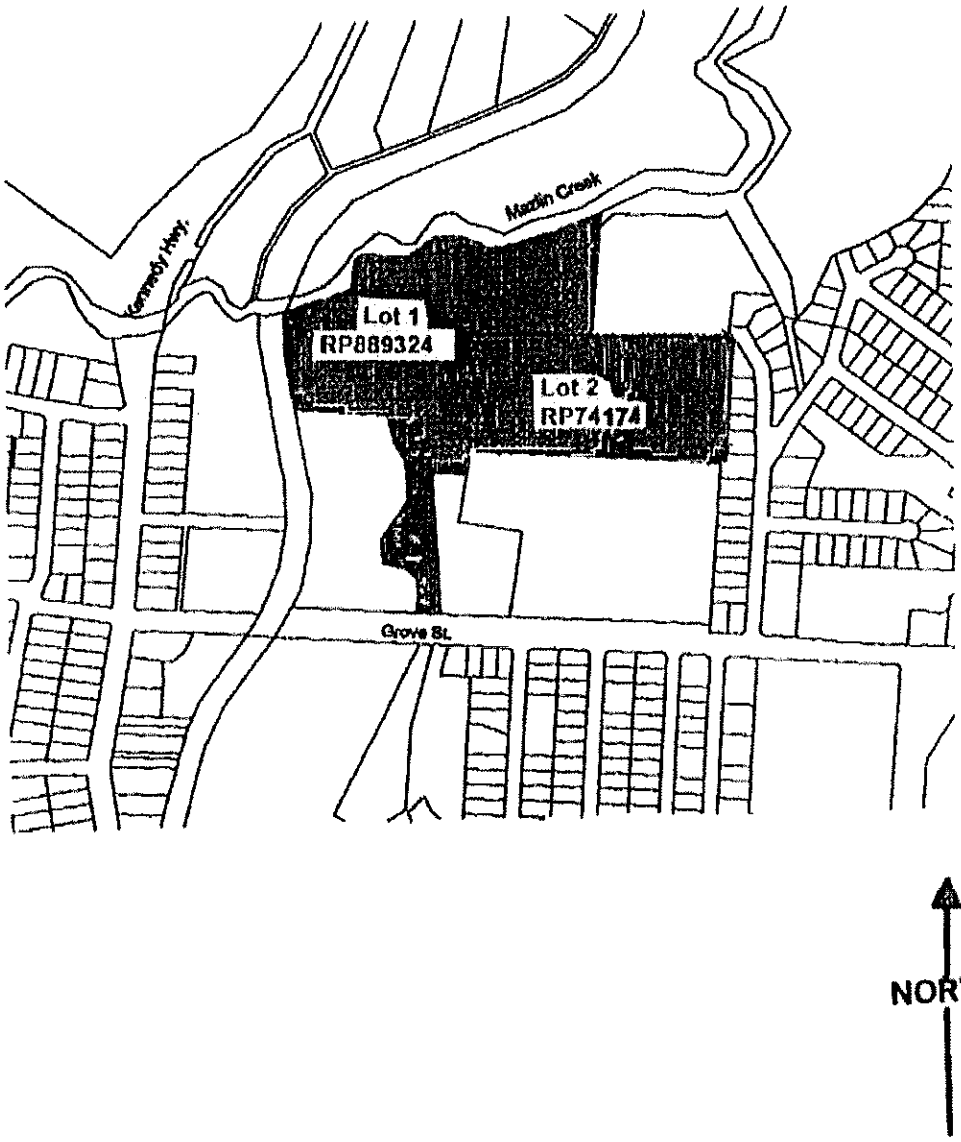
Condition number	Condition
N3-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 3 - Noise Limits until the circumstances which gave rise to the complaint are resolved. **Table 3 - Noise Limits**

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 5dB(A)	7 am - 6 pm
Background noise level plus 5dB(A)	6 pm - 10 pm
Background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 10dB(A)	7 am - 6 pm
Background noise level plus 10dB(A)	6 pm - 10 pm
Background noise level plus 8dB(A)	10 pm - 7 am

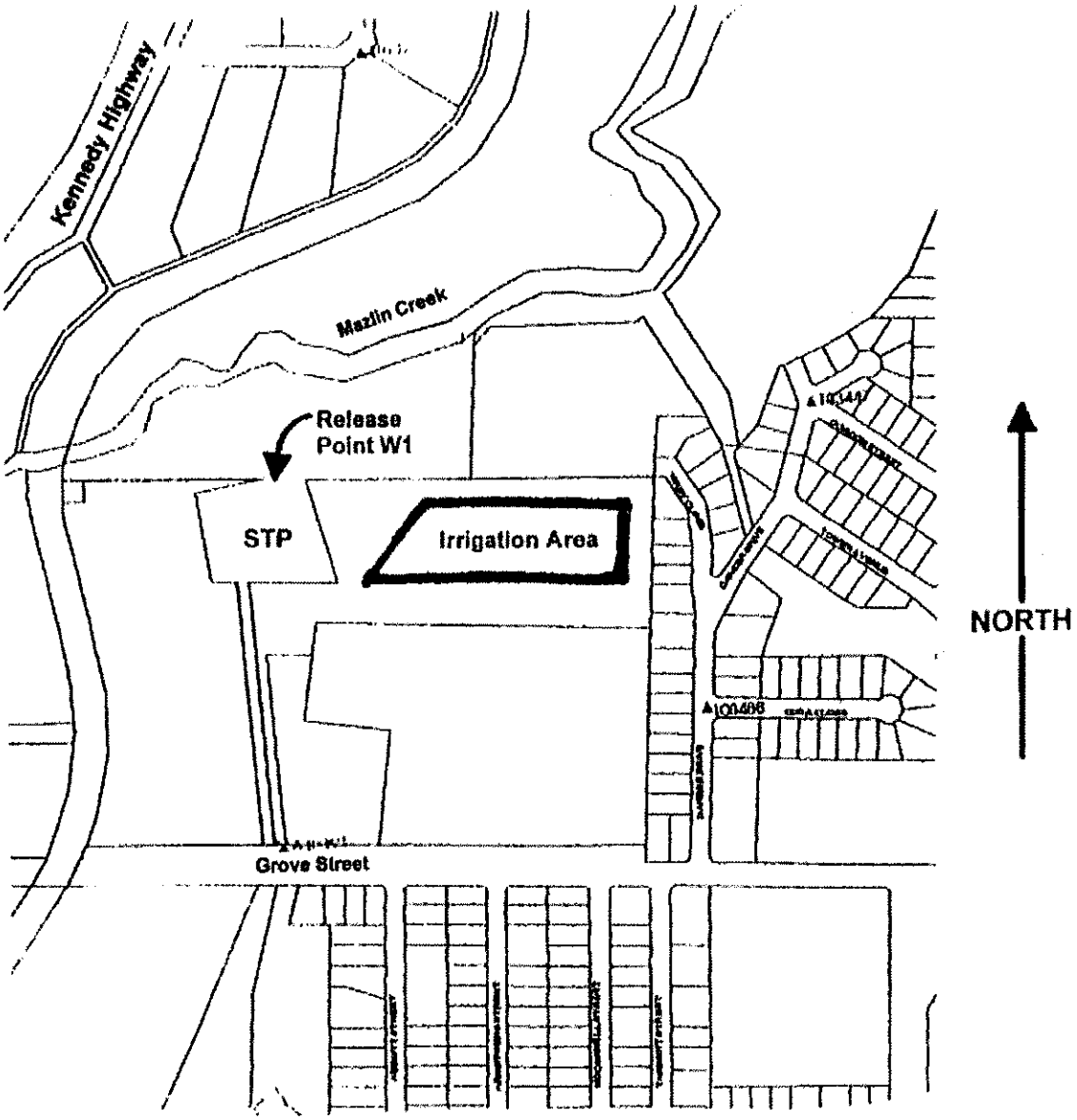
Agency interest: Land	
Condition number	**Condition**
L3-1	The defined contaminant release area is described as part of Lot 2 RP741754 and is shown in Schedule 2 as the irrigation area.
L3-2	Treated effluent released to land must be done in accordance with documentation that ensures: (a) drainage to groundwater and subsurface flows of contaminants to surface waters are prevented (b) surface pondage and run-off of effluent is prevented (c) degradation of soil structure is minimised (d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised (e) spray drift or overspray does not carry beyond effluent disposal areas (f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake (g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L3-3	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.
Agency interest: Waste	
Condition number	**Condition**
W3-1	The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place either commingled with normal domestic sewage or in accordance with Tableland Regional Council's Trade Waste Policy.

W3-2	A composite sample, of the sludge generated from the licensed place since the previous sample was taken, must be taken at least once in each three (3) years and analysed for the concentrations of the following parameters: (a) total zinc; (b) total copper; (c) total aluminium; (d) total chromium; (e) total cadmium; and (f) organochlorine pesticides

SCHEDULE 1 - Atherton Sewage Treatment Plant - Location



SCHEDULE 2 - Atherton Sewage Treatment Plant - Release Point W1



Part 4 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 63(1b)(ii) Sewage Treatment >100 but <1500EP with treated effluent discharged other than as in 2(b)i	Tinaroo Sewage Treatment Plant - Lot 3 on Plan RP836158 Tinaroo Falls Road, TINAROO QLD 4883

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Expiry of Conditions - All the conditions of Part 4 will become superseded by Part 5 from the date that the upgraded plant has become fully operational.

Agency interest: Water	
Condition number	**Condition**
WT4-1	The **activity** must be undertaken in accordance with written procedures that: • address the monitoring requirements of the appropriate parts of this environmental authority and also the following issues: a. monitoring of metals and other parameters likely to be found in the effluent (based on the type of wastes going to sewer in accordance with trade waste agreements in the catchment for the sewage treatment plant); and b. monitoring of metals (eg. boron and cadmium) and other parameters which are generally found in sewage effluent and have a potential to cause harm to irrigated plants or the biodiversity of receiving waters; and c. frequency of sampling to ensure the suitability of the effluent for irrigation and/or discharge to receiving waters; and d. carrying out an annual review of the monitoring program against the trade waste agreements in effect for the sewage treatment plant to ensure that the parameters being monitored are appropriate for the types of contaminants being discharged to the sewer; and e. monitoring of bacteria from sewage effluent in receiving waters to ensure that the standards appropriate to the uses of those receiving waters are being maintained
WT4-2	An Environmental Impact Monitoring Program must be developed and implemented which will effectively and appropriately monitor the impact of the activities carried out at the licensed place on receiving waters likely to be significantly affected and addresses at least the following issues: a. defining and monitoring of potential effects on the environment including effects on: i. flora and fauna communities (such as aquatic plants and aquatic vertebrates); and ii. ambient environmental quality in receiving waters; and b. the relationship between the effluent discharge and environmental quality indicators, including biodiversity

WT4-3	Sewage or treated sewage effluent must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the discharge of treated effluent from Release Point W2 to an unnamed dry gully at a point approximately one (1) kilometre above the Barron River at the location as shown in Schedule 1.
WT4-4	The total quantity of contaminants released from Release Point W2 during any dry weather day must not exceed 60 cubic metres and during a wet weather day must not exceed 100 cubic metres.
WT4-5	The release of contaminants to waters from Release Point W2 must comply, at the sampling and in situ monitoring point, with each of the limits specified in Table 1 - Release Quality Characteristic Limits for each quality characteristic.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-Day Biochemical Oxygen Demand (mg/l)	20 30 60	80th percentile (long term) 80th percentile (short term) maximum
Suspended Solids (mg/l)	30 40 90	80th percentile (long term) 80th percentile (short term) maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Free Residual Chlorine (mg/l)	0.7(1)	maximum
Ammonia Nitrogen (mg/l)	1	maximum
Total Oxidised Nitrogen (mg/l)	tbs tbs	50th percentile maximum
Total Phosphorus as P (mg/l)	tbs tbs	50th percentile maximum
Oil and Grease (mg/1)	10	maximum
Faecal Coliforms (Organisms/100 ml)	150(2) 600	median(3) 80th percentile(4)

Notes:

"tbs" means to be specified following consideration of the results of studies yet to be carried out.

1. Measured at the chlorine contact tank after a minimum twenty (20) minutes detention period.
2. ANZECC standards for primary contact recreation (swimming, bathing and other direct water-contact sports).
3. Median for this quality characteristic must be based on the results of at least five samples, with individual samples being collected at intervals of not less than thirty (30) minutes.
4. "80th percentile" for this quality characteristic means that the measured values of the
5. quality characteristic must not be greater than the release limit for any more than one out of five consecutive samples.

WT4-6	The release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.

WT4-7	The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the effluent from the sewage treatment plant for the quality characteristics and not less frequently than at the frequency specified in Table 2 - Monitoring Frequency.
WT4-8	Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in Table 1 of this environmental authority must be undertaken on samples collected from a location as near as possible to the discharge point to the Barron River.

Table 2 - Monitoring Frequency

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-Day Biochemical Oxygen Demand	monthly
Suspended Solids	monthly
pH	monthly
Specific Conductance	monthly
Dissolved Oxygen	monthly
Temperature - Celsius degrees	monthly
Free Residual Chlorine	monthly
Faecal Coliforms (Organisms/100 ml)	monthly
Ammonia Nitrogen	quarterly
Oil and Grease	quarterly

Agency interest: Noise

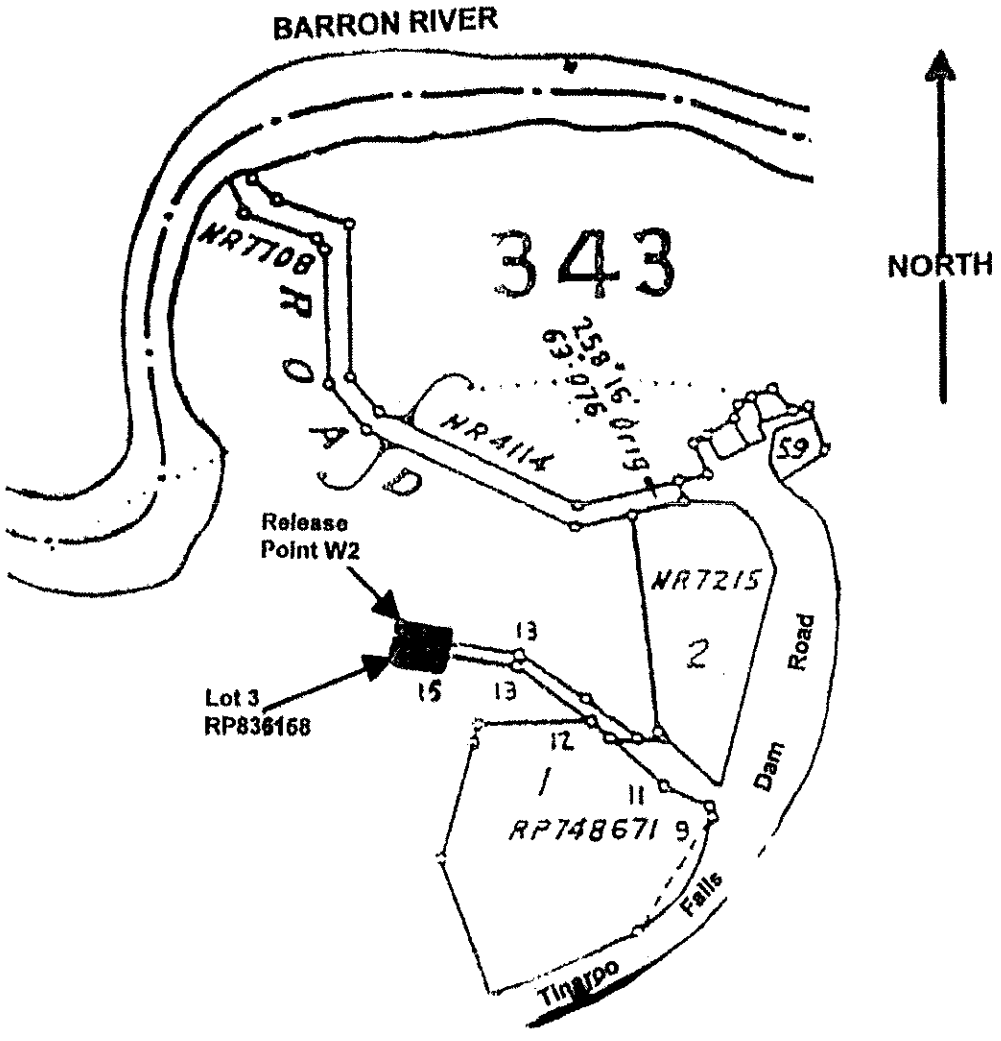
Condition number	Condition
N4-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 3 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 3 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	Period
Background noise level plus 5dB(A)	7 am - 6 pm
Background noise level plus 5dB(A)	6 pm - 10 pm
Background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 10dB(A)	7 am - 6 pm
Background noise level plus 10dB(A)	6 pm - 10 pm
Background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Land	
Condition number	**Condition**
L4-1	Treated effluent released to land must be done in accordance with documentation that ensures: (a) drainage to groundwater and subsurface flows of contaminants to surface waters are prevented (b) surface pondage and run-off of effluent is prevented (c) degradation of soil structure is minimised (d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised (e) spray drift or overspray does not carry beyond effluent disposal areas (f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake (g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L4-2	Treated sewage effluent may be removed from the site and used for an alternate purpose, with the written consent of any third party involved.
Agency interest: Waste	
Condition number	**Condition**
W4-1	The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place either commingled with normal domestic sewage or in accordance with a trade waste agreement with the generator of the regulated wastes.
W4-2	No sludge removed from the sewage treatment plant may be stored or disposed of on the licensed place.

SCHEDULE 1 - Tinaroo Sewage Treatment Plant



Part 5 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 63(1b)(ii) Sewage Treatment >100 but <1500EP with treated effluent discharged other than as in 2(b)i	Tinaroo Sewage Treatment Plant - Lot 3 on Plan RP836158 Tinaroo Falls Road, TINAROO QLD 4883

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Commencement date - The following conditions of Part 5 will become effective from the date that the upgraded plant has become fully operational.

Agency interest: General	
Condition number	**Condition**
G5-1	The **activity** must be undertaken in accordance with written procedures that: 1. address the monitoring requirements of the appropriate parts of this environmental authority and also the following issues: a. monitoring of metals and other parameters likely to be found in the effluent (based on the type of wastes going to sewer in accordance with trade waste agreements in the catchment for the sewage treatment plant); and b. monitoring of metals (eg. boron and cadmium) and other parameters which are generally found in sewage effluent and have a potential to cause harm to irrigated plants or the biodiversity of receiving waters; and c. frequency of sampling to ensure the suitability of the effluent for irrigation and/or discharge to receiving waters; and d. carrying out an annual review of the monitoring program against the trade waste agreements in effect for the sewage treatment plant to ensure that the parameters being monitored are appropriate for the types of contaminants being discharged to the sewer; and e. monitoring of bacteria from sewage effluent in receiving waters to ensure that the standards appropriate to the uses of those receiving waters are being maintained; and f. the development and implementation of an Environmental Impact Monitoring Program which will effectively and appropriately monitor the impact of the activities carried out at the licensed place on receiving waters likely to be significantly affected and addresses at least the following issues: i. defining and monitoring of potential effects on the environment including effects on: • flora and fauna communities (such as aquatic plants and aquatic vertebrates); and • ambient environmental quality in receiving waters; and ii. the relationship between the effluent discharge and environmental quality indicators, including biodiversity.

Agency interest: Water

Condition number	Condition
WT5-1	The only contaminants to be released to surface **waters** are from Release Point W2 to an unnamed dry gully at a point approximately one (1) kilometre above the Barron River at the location as shown in *Part 3CA – Site Plan*, in accordance with Table 1 —Surface water release limits.

Table 1 - Surface Water Release Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-Day Biochemical Oxygen Demand (mg/l)	5 10 25	80th percentile (long term) 80th percentile (short term) maximum
Suspended Solids (mg/l)	10 20 30	80th percentile (long term) 80th percentile (short term) maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Free Residual Chlorine (mg/l)	0.7(1)	maximum
Ammonia Nitrogen (mg/l)	1 3	80th percentile (long term) maximum
Total Nitrogen (mg/l)	5 15	50th percentile maximum
Total Phosphorus as P (mg/l)	1 3	50th percentile maximum
Oil and Grease (mg/l)	10	maximum
Faecal Coliforms (Organisms/100 ml)	500 1000	median(2) 80th percentile(3)

Notes:

1. Measured at the chlorine contact tank after a minimum twenty (20) minutes detention period.
2. Median for this quality characteristic must be based on the results of at least five samples, with individual samples being collected at intervals of not less than thirty (30) minutes.
3. "80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the release limit for any more than one out of five consecutive samples.

WT5-2

Monitoring of contaminant releases to **waters** must be undertaken in accordance with Table 2 – Monitoring frequency and the associated monitoring requirements and records of the results must be kept.

Table 2 – Monitoring frequency

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-Day Biochemical Oxygen Demand	monthly
Suspended Solids	monthly
pH	monthly
Specific Conductance	monthly
Dissolved Oxygen	monthly
Temperature - Celsius degrees	monthly
Free Residual Chlorine	monthly
Faecal Coliforms (Organisms/100 ml)	monthly
Ammonia Nitrogen	quarterly
Total Nitrogen	monthly
Total Phosphorus as P	monthly
Oil and Grease	quarterly

Associated monitoring requirements

1. Monitoring must be in accordance with the Water Quality Sampling Manual and all monitoring devices must be effectively calibrated and maintained.
2. Monitoring must be undertaken when the **activity** is in operation and samples must be taken during a release.
3. Samples must be taken from a location as near as possible to Release Point W2. Refer *Schedule 22-1 – Site Plan.*

WT5-3

The total quantity of contaminants released from Release Point W2 during any dry weather day must not exceed 190 cubic metres and during a wet weather day must not exceed 950 cubic metres.

Agency interest: Noise

Condition number	Condition
N5-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 3 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 3 - Noise Limits

Noise Level at a Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 5dB(A)	7 am - 6 pm
Background noise level plus 5dB(A)	6 pm - 10 pm
Background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
Background noise level plus 10dB(A)	7 am - 6 pm
Background noise level plus 10dB(A)	6 pm - 10 pm
Background noise level plus 8dB(A)	10 pm - 7 am

Associated monitoring requirements

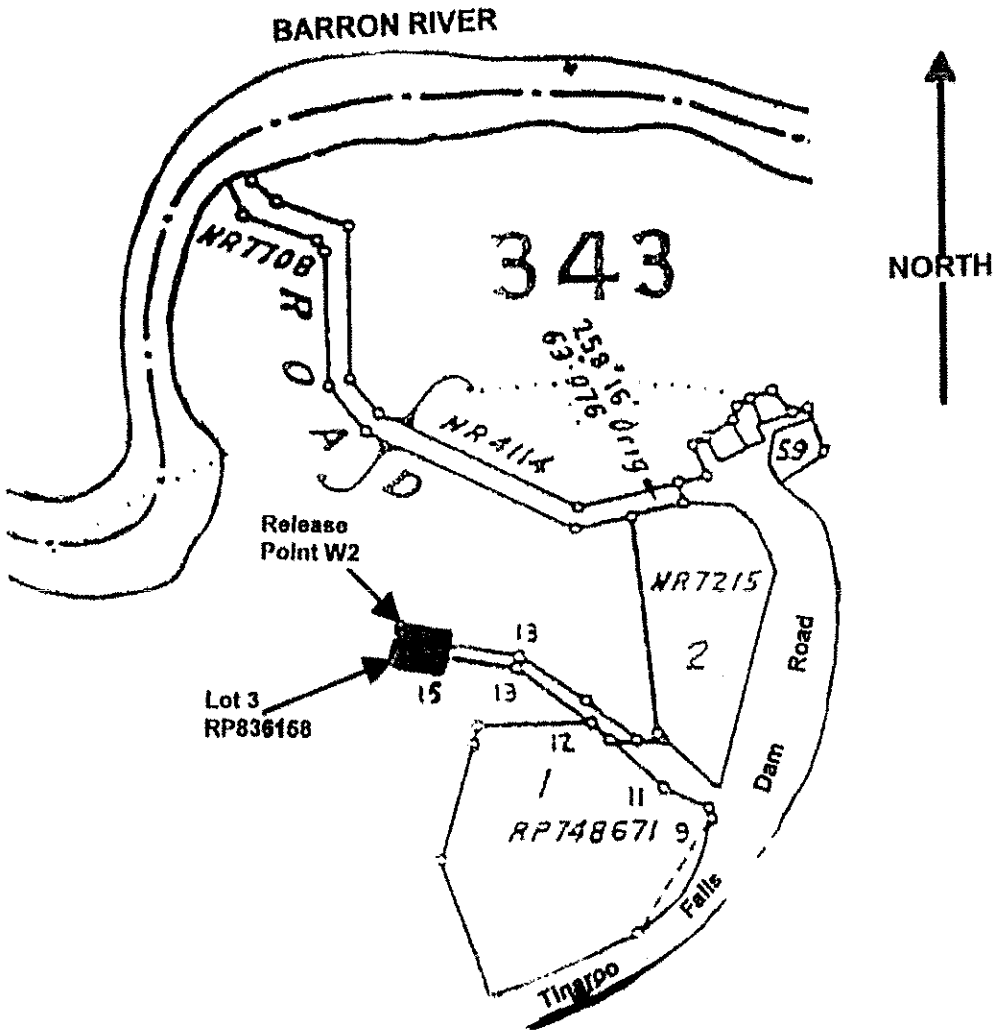
1. Monitoring must be in accordance with the most recent editions of the **administering authority's** 'Noise and Vibration from Blasting' guideline and Noise Measurement Manual and any relevant Australian standard.
2. All monitoring devices must be correctly calibrated and maintained.

Agency interest: Land

Condition number	Condition
L5-1	The holder of this environmental authority must not discharge any sewage or treated sewage effluent to land under its control unless the discharge of the contaminants to that area of land is permitted under this schedule of this environmental authority.
L5-2	Treated effluent released to land must be done in accordance with documentation that ensures: (a) drainage to groundwater and subsurface flows of contaminants to surface waters are prevented (b) surface pondage and run-off of effluent is prevented (c) degradation of soil structure is minimised (d) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised (e) spray drift or overspray does not carry beyond effluent disposal areas (f) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake (g) sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L5-3	Treated sewage effluent may be removed from the site and used for an alternative purpose, with the written consent of any third party involved.

Agency interest: Waste	
Condition number	**Condition**
W5-1	The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place either commingled with normal domestic sewage or in accordance with a trade waste agreement with the generator of the regulated wastes.
W5-2	No sludge removed from the sewage treatment plant may be stored or disposed of on the licensed place.

SCHEDULE 1 - Tinaroo Sewage Treatment Plant



Part 6 - Site Specific Conditions

Environmentally relevant activity	Locations
ERA 63(1b)(ii) Sewage Treatment >100 but <1500EP with treated effluent discharged other than as in 2(b)i.	Ravenshoe Sewage Treatment – Lot 255 on Plan CWL1731 Aschem Road, RAVENSHOE QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Expiry of Conditions - All the conditions of Part 6 will become superseded by Part 7 from the date that the upgraded plant has become fully operational.

Agency interest: General	
Condition number	**Condition**
G6-1	The **activity** must be undertaken in accordance with written procedures that: (a) address the monitoring requirements of the appropriate parts of this environmental authority and also the following issues: (a) the monitoring of releases of contaminants into the environment and of the environmental impact caused by the releases in accordance with monitoring programs which for Ravenshoe Sewage Treatment Plant, address the monitoring requirements of the appropriate part of this environmental authority and also the following issues: (i) monitoring of metals and other parameters likely to be found in the effluent (based on the type of wastes going to sewer in accordance with trade waste agreements in the catchment for the sewage treatment plant); and (ii) monitoring of metals (eg. boron and cadmium) and other parameters which are generally found in sewage effluent and have a potential to cause harm to irrigated plants or the biodiversity of receiving waters; and (iii) frequency of sampling to ensure the suitability of the effluent for irrigation and/or discharge to receiving waters; and (iv) carrying out an annual review of the monitoring program against the trade waste agreements in effect for the sewage treatment plant to ensure that the parameters being monitored are appropriate for the types of contaminants being discharged to the sewer; and (v) monitoring of bacteria from sewage effluent in receiving waters to ensure that the standards appropriate to the uses of those receiving waters are being maintained; and

Agency interest: Water	
Condition number	**Condition**
WT6-1	An Environmental Impact Monitoring Program must be developed and implemented which will effectively and appropriately monitor the impact of the activities carried out at the licensed place on North Cedar Creek and addresses at least the following issues: 1. defining and monitoring of potential effects on the environment including effects on: (a) flora and fauna communities (such as aquatic plants and aquatic vertebrates); and (b) ambient environmental quality in receiving waters; and 2. the relationship between the effluent discharge and environmental quality indicators, including biodiversity
WT6-2	Sewage or treated sewage effluent must not be directly or indirectly released from any source on the licensed place to any waters excepting: (a) overflows from the sewage reticulation system in accordance with the requirements of this environmental authority; and (b) the discharge of treated effluent from Release Point W1 to North Cedar Creek at a location shown on the site plan in Schedule 1.
WT6-3	The total quantity of contaminants released from Release Point W1 during any dry weather day must not exceed 500 cubic metres.

WT6-4

The release of contaminants to waters from Release Point W1 must comply, at the sampling and in situ monitoring point, with each of the limits specified in Table 1 - Release Quality Characteristic Limits for each quality characteristic.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (mg/l)	20 25 60	80th percentile (long term) 80th percentile (short term) maximum
Suspended Solids (mg/l)	30 40 90	80th percentile (long term) 80th percentile (short term) maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Free Residual Chlorine (mg/l)	0.7(1)	maximum
Oil and Grease (mg/1)	10	maximum
Faecal Coliforms (Organisms/100 ml)	1000(2) 4000	median(3) 80th percentile(4)
Ammonia (mg/L)	1	maximum(5)

Notes:

1. Measured at the chlorine contact tank after a minimum twenty (20) minutes detention period.
2. Set to protect ANZECC standards for primary contact recreation (swimming, bathing and other direct water-contact sports) and assuming a minimum ten (10) times dilution of effluent.
3. Median for this quality characteristic must be based on the results of at least five samples, with individual samples being collected at intervals of not less than thirty (30) minutes.
4. "80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the release limit for any more than one (1) out of five (5) consecutive samples.
5. Ammonia must be measured at a point 500 metres downstream of release point W1.

WT6-5

The release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.

WT6-6

The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the effluent released from the sewage treatment plant for the quality characteristics and not less frequently than the frequency specified in Table 2 - Monitoring Frequency.

WT6-7	Determinations of the quality of effluent released to waters to check conformity with the release quality characteristics specified in Table 1 of this environmental authority must be undertaken on samples collected at the effluent discharge point to North Cedar Creek with the exception of ammonia, which must be measured at a point 500 metres downstream of release point W1.

Table 2 - Monitoring Frequency

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-day Biochemical Oxygen Demand	monthly
Suspended Solids	monthly
PH	weekly
Specific Conductance	weekly
Dissolved Oxygen	weekly
Temperature - Celsius degrees	weekly
Ammonia Nitrogen	monthly
Free Residual Chlorine	monthly
Oil and Grease	monthly
Faecal Coliforms (Organisms/100 ml)	monthly

Agency interest: Noise

Condition number	Condition
N6-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 3 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

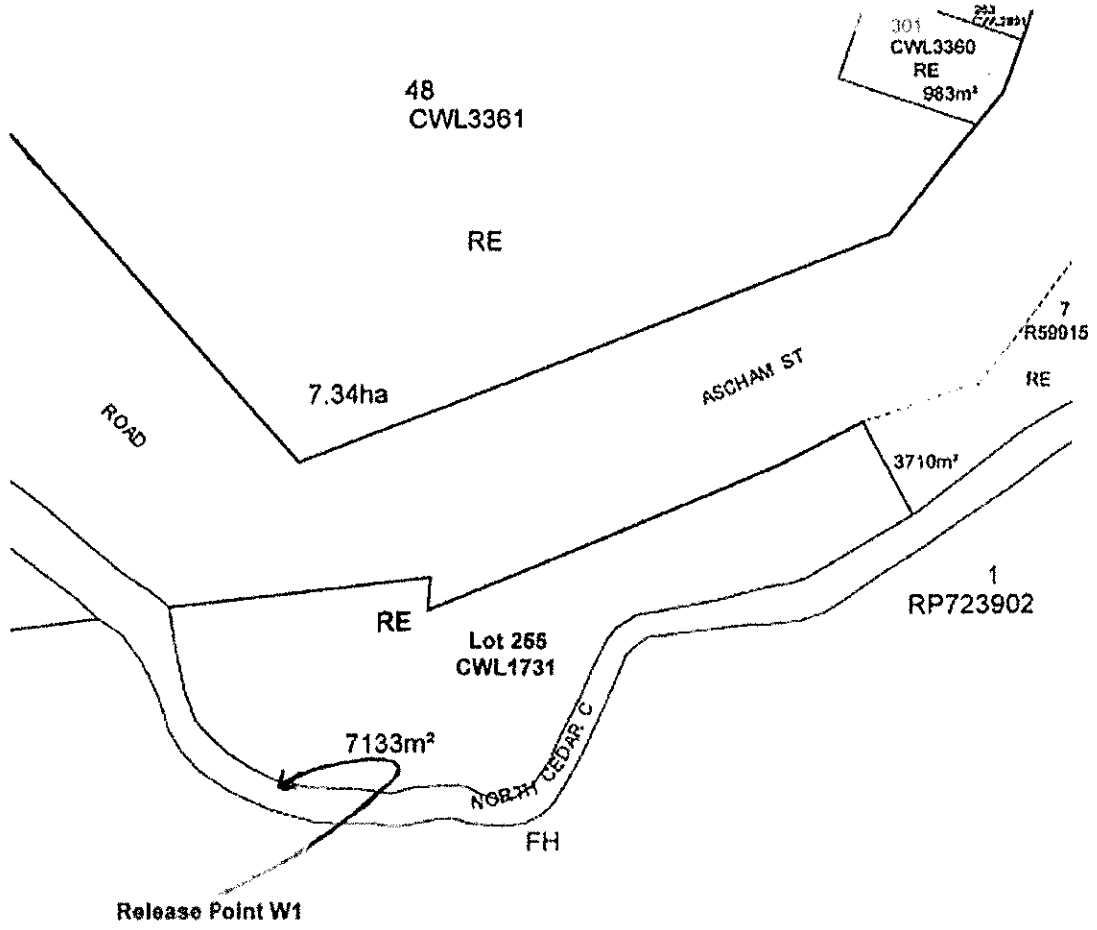
Table 3 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Land	
Condition number	**Condition**
L6-1	Treated effluent released to land must be done in accordance with documentation that ensures: 1. drainage to groundwater and subsurface flows of contaminants to surface waters are prevented 2. surface pondage and run-off of effluent is prevented 3. degradation of soil structure is minimised 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised 5. spray drift or overspray does not carry beyond effluent disposal areas 6. effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L6-2	Treated sewage effluent may be removed from the site and used for an alternative purpose, with the written consent of any third party involved.
L6-3	Any extension of the area used for irrigation of treated sewage effluent to land (other than for maintenance of the grounds and gardens around the sewage treatment plant generating the effluent), or supply of treated sewage effluent by the holder of this environmental authority to another person or body for irrigation to land under any new re-use scheme, may only take place: (a) in accordance with the *Environmental Protection Act 1994*; and (b) after the holder of this environmental authority has carried out an investigation into: (i) the ecological sustainability of the irrigation or re-use proposal; and (ii) the suitability for irrigation with treated sewage effluent of the land to be used; and (iii) BPEM to minimise any environmental harm resulting from the irrigation. **Note:** Guidelines are available from the EPA Northern Region Office on how to assess the suitability of a piece of land for wastewater irrigation and how to achieve BPEM for the irrigation
Agency interest: Waste	
Condition number	**Condition**
W6-1	The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place either commingled with normal domestic sewage or in accordance with Tablelands Regional Council trade waste policy.

W6-2	A composite sample, of the sludge generated from the licensed place since the previous sample was taken, must be taken at least once in each three (3) years and analysed for the concentrations of the following parameters: (a) total zinc; (b) total copper; (c) total aluminium; (d) total chromium; (e) total cadmium; and (f) organochlorine pesticides.

SCHEDULE 1 - Ravenshoe Sewage Treatment Plant



Part 7 - Site Specific Conditions

Environmentally relevant activity	Locations
ERA 63(1d) Sewage Treatment >4000 but <10000EP	Ravenshoe Sewage Treatment – Lot 255 on Plan CWL1731 Aschem Road, RAVENSHOE QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Commencement date - The following conditions of Part 7 will become effective from the date that the upgraded plant has become fully operational.

Agency interest: General	
Condition number	**Condition**
G7-1	The **activity** must be undertaken in accordance with written procedures that: (a) address the monitoring requirements of the appropriate parts of this environmental authority and also the following issues: (b) the monitoring of releases of contaminants into the environment and of the environmental impact caused by the releases in accordance with monitoring programs which for Ravenshoe Sewage Treatment Plant, address the monitoring requirements of the appropriate part of this environmental authority and also the following issues: (i) monitoring of metals and other parameters likely to be found in the effluent (based on the type of wastes going to sewer in accordance with trade waste agreements in the catchment for the sewage treatment plant); and (ii) monitoring of metals (eg. boron and cadmium) and other parameters which are generally found in sewage effluent and have a potential to cause harm to irrigated plants or the biodiversity of receiving waters; and (iii) frequency of sampling to ensure the suitability of the effluent for irrigation and/or discharge to receiving waters; and (iv) carrying out an annual review of the monitoring program against the trade waste agreements in effect for the sewage treatment plant to ensure that the parameters being monitored are appropriate for the types of contaminants being discharged to the sewer; and (v) monitoring of bacteria from sewage effluent in receiving waters to ensure that the standards appropriate to the uses of those receiving waters are being maintained; and

Agency interest: Water	
Condition number	**Condition**
WT7-1	An Environmental Impact Monitoring Program must be developed and implemented which will effectively and appropriately monitor the impact of the activities carried out at the licensed place on North Cedar Creek and addresses at least the following issues: 1. defining and monitoring of potential effects on the environment including effects on: (a) flora and fauna communities (such as aquatic plants and aquatic vertebrates); and (b) ambient environmental quality in receiving waters; and 2. the relationship between the effluent discharge and environmental quality indicators, including biodiversity
WT7-2	Sewage or treated sewage effluent must not be directly or indirectly released from any source on the licensed place to any waters excepting: (a) overflows from the sewage reticulation system in accordance with the requirements of this environmental authority; and (b) the discharge of treated effluent from Release Point W1 to North Cedar Creek at a location shown on the site plan in Schedule 1.
WT7-3	The total quantity of contaminants released from Release Point W1 during any dry weather day must not exceed 950 cubic metres.

WT7-4

The release of contaminants to waters from Release Point W1 must comply, at the sampling and in situ monitoring point, with each of the limits specified in Table 1 - Release Quality Characteristic Limits for each quality characteristic.

Table 1 - Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (mg/l)	5 10 25	80th percentile (long term) 80th percentile (short term) maximum
Suspended Solids (mg/l)	10 20 30	80th percentile (long term) 80th percentile (short term) maximum
pH (pH Units)	6.5 to 8.5	range
Dissolved Oxygen (mg/l)	2	minimum
Total Nitrogen (mg/L)	5 15	50th percentile (long term) Maximum
Total Phosphorus (mg/L)	1 3	50th percentile (long term) Maximum
Free Residual Chlorine (mg/l)	0.7(1)	maximum
Oil and Grease (mg/1)	10	maximum
Faecal Coliforms (Organisms/100 ml)	500(2) 1000	median(3) 80th percentile(4)
Ammonia (mg/L)	1 3	80th percentile (long term) maximum(5)

Notes:

1. Measured at the chlorine contact tank after a minimum twenty (20) minutes detention period.
2. Set to protect ANZECC standards for primary contact recreation (swimming, bathing and other direct water-contact sports) and assuming a minimum ten (10) times dilution of effluent.
3. Median for this quality characteristic must be based on the results of at least five samples, with individual samples being collected at intervals of not less than thirty (30) minutes.
4. "80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the release limit for any more than one (1) out of five (5) consecutive samples.
5. Ammonia must be measured at a point 500 metres downstream of release point W1.

WT7-5

The release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.

WT7-6

The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the effluent released from the sewage treatment plant for the quality characteristics and not less frequently than the frequency specified in Table 2 - Monitoring Frequency.

WT7-7	Determinations of the quality of effluent released to waters to check conformity with the release quality characteristics specified in Table 1 of this environmental authority must be undertaken on samples collected at the effluent discharge point to North Cedar Creek with the exception of ammonia, which must be measured at a point 500 metres downstream of release point W1.

Table 2 - Monitoring Frequency

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-day Biochemical Oxygen Demand	monthly
Suspended Solids	monthly
PH	weekly
Specific Conductance	weekly
Dissolved Oxygen	weekly
Temperature - Celsius degrees	weekly
Total Nitrogen	monthly
Total Phosphorus	monthly
Ammonia Nitrogen	monthly
Free Residual Chlorine	monthly
Oil and Grease	monthly
Faecal Coliforms (Organisms/100 ml)	monthly

Agency interest: Noise

Condition number	Condition
N7-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 3 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

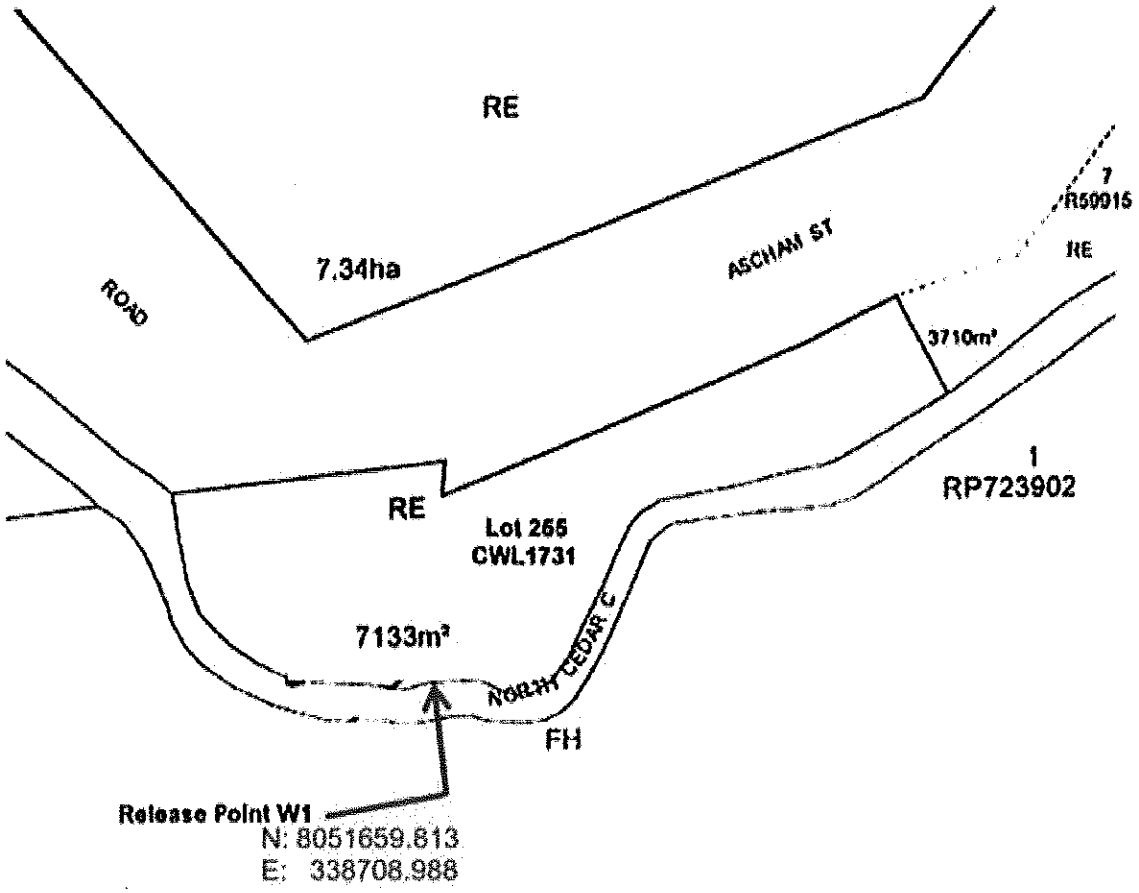
Table 3 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Land	
Condition number	**Condition**
L7-1	Treated effluent released to land must be done in accordance with documentation that ensures: 1. drainage to groundwater and subsurface flows of contaminants to surface waters are prevented 2. surface pondage and run-off of effluent is prevented 3. degradation of soil structure is minimised 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised 5. spray drift or overspray does not carry beyond effluent disposal areas 6. effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L7-2	Treated sewage effluent may be removed from the site and used for an alternative purpose, with the written consent of any third party involved.
L7-3	Any extension of the area used for irrigation of treated sewage effluent to land (other than for maintenance of the grounds and gardens around the sewage treatment plant generating the effluent), or supply of treated sewage effluent by the holder of this environmental authority to another person or body for irrigation to land under any new re-use scheme, may only take place: (a) in accordance with the *Environmental Protection Act 1994*; and (b) after the holder of this environmental authority has carried out an investigation into: (i) the ecological sustainability of the irrigation or re-use proposal; and (ii) the suitability for irrigation with treated sewage effluent of the land to be used; and (iii) BPEM to minimise any environmental harm resulting from the irrigation. **Note:** Guidelines are available from the EPA Northern Region Office on how to assess the suitability of a piece of land for wastewater irrigation and how to achieve BPEM for the irrigation
Agency interest: Waste	
Condition number	**Condition**
W7-1	The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place either commingled with normal domestic sewage or in accordance with Tablelands Regional Council trade waste policy.

W7-2	A composite sample, of the sludge generated from the licensed place since the previous sample was taken, must be taken at least once in each three (3) years and analysed for the concentrations of the following parameters: (a) total zinc; (b) total copper; (c) total aluminium; (d) total chromium; (e) total cadmium; and (f) organochlorine pesticides.

SCHEDULE 1 - Ravenshoe Sewage Treatment Plant



Part 8 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 63(1a)(i) Sewage Treatment >21 but <100EP with treated effluent discharged to an infiltration trench or irrigation scheme	Millaa Millaa Sewage Treatment Plant – Lot 601 on Plan CP840989 Main Street, MILLAA MILLAA QLD 4886

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Air

Condition number	Condition
A8-1	Odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.

Agency interest: Water

Condition number	Condition
WT8-1	Monitoring must be undertaken and records kept of any release of contaminants from the stormwater drain outlet (W1) for the parameters and not less frequently than specified in Table 1 - Release Limits. All determinations of the quality of contaminants released must be: (i) carried out on samples that are representative of the discharge.

Table 1 - Release Limits

			Release limit				
Monitoring point	**Discharge location**	**Quality characteristics**	Minimum	50th Percentile	80th Percentile	Maximum	**Monitoring frequency**
W1	Theresa Creek at stormwater drain outlet	Faecal coliforms (Organisms / 100mL)	--	150	--	600	When a release is occurring: a) once a week during dry season (July to November), and b) once a month during wet season.

WT8-2	Contaminants must only be released to waters from the discharge location and in compliance with the release limits listed in Table 1.

WT8-3	The holder of this environmental authority must develop and implement a Ground Water Monitoring Program, which must be able to determine the impacts of the licensed activity on the ground water quality in the underlying aquifer and on existing ground water bores in adjacent areas.
WT8-4	The Ground Water Monitoring Program must include but not be limited to: (a) a sufficient number of bores installed at locations and depths which yield representative ground water samples from at least the uppermost aquifer so as to: (i) establish the quality of up gradient groundwater that has not been affected by sewage effluent from the absorption trenches; and (ii) detect any changes in downgradient groundwater quality as a result of contamination by sewage effluent from the absorption trenches.
WT8-5	This monitoring must be undertaken for the parameters and frequency specified in Table 2 - Release Limits.

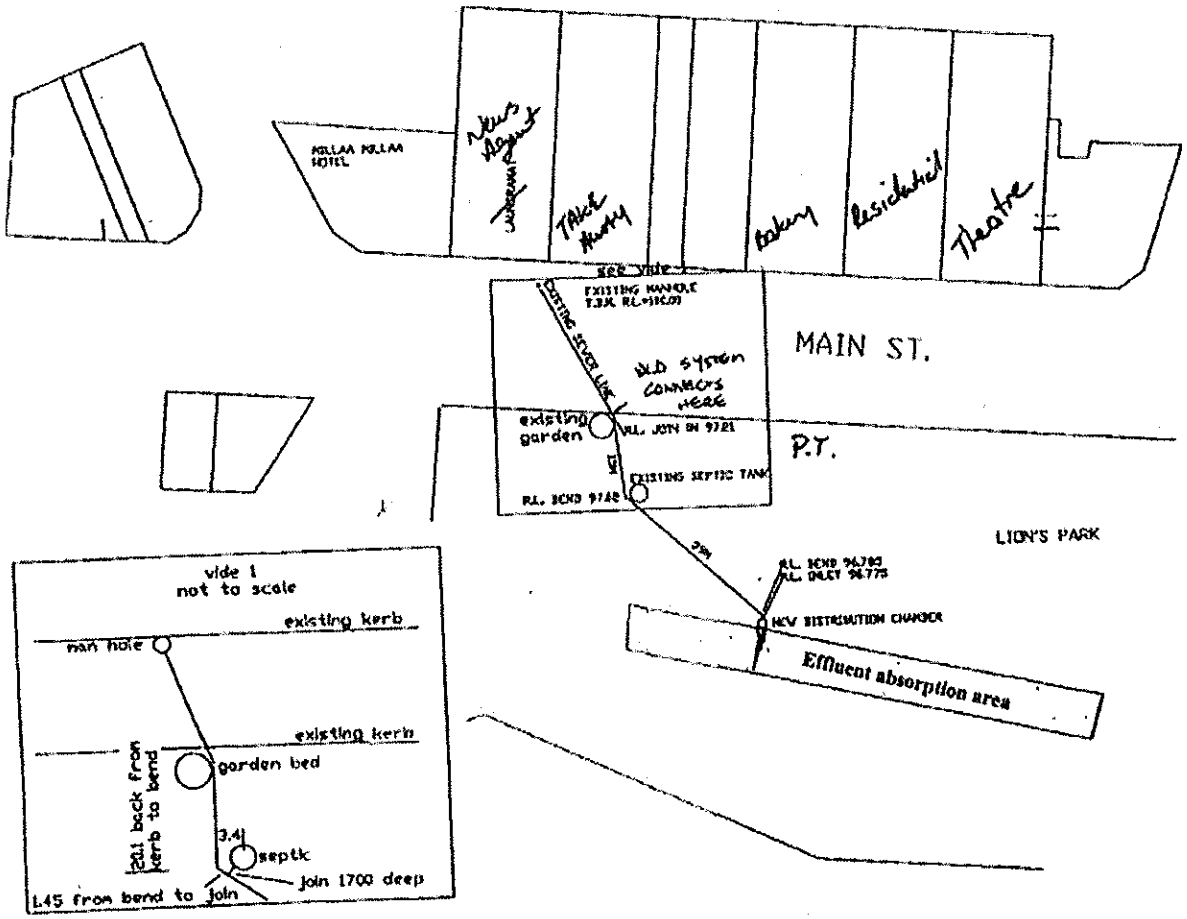
Table 2 - Release limits

			Release limit				
Monitoring point	**Discharge location**	**Quality characteristics**	Minimum	50th Percentile	80th Percentile	Maximum	**Monitoring frequency**
D-G	Down-gradient bore (s) that has been potentially affected by release of contaminants	Faecal coliforms (Organisms / 100mL)	--	--	--	[1]Background + 100%	Quarterly
D-G	Down-gradient bore(s) that has been potentially affected by release of contaminants	Total Nitrogen	--	--	--	[1]Background + 100%	Quarterly
D-G	Down-gradient bore(s) that has been potentially affected by release of contaminants	Total Phosphorus	--	--	--	[1]Background + 100%	Quarterly
D-G	Down-gradient bore(s) that has been potentially affected by release of contaminants	Electrical conductivity or total dissolved solids	--	--	--	[1]Background + 100%	Quarterly

[1]Background refers to water quality results from samples taken from upgradient bore(s), representative of groundwater which has been unimpacted by sewage effluent from the septic tank absorption trenches.

WT8-6	Standing water levels in metres must be measured and recorded on each occasion that samples are obtained. Such measurement must be undertaken prior to any disturbance by sampling and must be reported as the depth in metres from the top edge of the casing collar to the water surface within the bore.
Agency interest: Land	
Condition number	**Condition**
L8-1	The only contaminants permitted to be released to land are effluent from the septic tank to the effluent absorption area shown in Schedule 1.
L8-2	Treated effluent released to land must be done in accordance with documentation that ensures: 1. drainage to groundwater and subsurface flows of contaminants to surface waters are prevented 2. surface pondage and run-off of effluent is prevented 3. degradation of soil structure is minimised 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised 5. spray drift or overspray does not carry beyond effluent disposal areas 6. effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.

SCHEDULE 1 - Milla Milla Effluent Absorption Area Location



Part 9 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 63(1c) Sewage Treatment >1500 but <4000EP	Malanda Sewage Treatment Plant - Lot 2 on Plan RP735188, Lot 41 on Plan NR4169 (irrigational area), Lot 11 Plan SP241954 (irrigational area) and Lot 10 Plan SP241954 (Same lot as the Malanda Refuse Tip).

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Air	
Condition number	**Condition**
A9-1	Odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT9-1	Discharge of treated effluent compliant with the limits in Table 1 - Contaminant release limits and monitoring is only permitted to be discharged to waters when conditions preclude reuse and pond storage is at capacity.
WT9-2	Treated effluent is only permitted to be discharged from the North Johnstone River outfall, namely release point W3, located at GPS coordinates Map 55 352343 easting and 8082527 northing (Datum WGS84) fitted with diffused characteristics and locational details as defined in *GHD Report Tablelands Regional Council Report for Malanda Wastewater Treatment Plan Discharge Near Field Dispersion Modelling January 2010.*
WT9-3	The only contaminant permitted to be released to surface waters is treated sewage effluent in compliance with the release limits listed in Table 1 - Contaminant release limits and monitoring program from the North Johnstone River outfall (W3).

WT9-4	Calculate and keep records of daily, median monthly and annual mass loads of total nitrogen and total phosphorus released to waters at W3. Mass loads must be calculated by the following formula; (a) Daily Mass Load = Measured value[1] of contaminant (mg/L) x Daily Flow for release point W3 (b) Monthly Mass Load = the sum of all the daily mass loads for the month (c) Annual Load = the sum of the daily mass loads released for that calendar year. **Notes:** [1]The measured value being the value measured that day or on the most recent sampling occasion if not measured that day.
WT9-5	The release to **waters** must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.
WT9-6	A receiving environment monitoring program must be designed and implemented by **appropriately qualified persons** to monitor the effects of the **activity** on **waters**.
WT9-7	An Environmental Impact Monitoring Program must be developed and implemented which will effectively and appropriately monitor the impact of the activities carried out at the licensed place on waters and addresses at least the following issues: 1. Defining and monitoring of potential effects on the environment including effects on: (a) Flora and fauna communities (such as aquatic plants and aquatic vertebrates); and (b) Ambient environmental quality in receiving waters; and 2. The relationship between the effluent discharge and environmental quality indicators, including biodiversity.
WT9-8	The frequency of monitoring under the Environmental Impact Monitoring Program must be conducted as least: (a) Monthly during discharge for water quality monitoring (b) Once in every three (3) month period when no discharge occurs (c) Annually for assessing the effects on flora and fauna communities
WT9-9	All ponds used for the storage of effluent must be constructed, installed and maintained: (a) So as to prevent any release of contaminants through the bed or banks of the pond to any waters (including groundwater); (b) So that a freeboard of not less than 0.5 metres is maintained at all times; and (c) So as to ensure the stability of the ponds' construction.
Agency interest: Noise	
Condition number	**Condition**
N9-1	Noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place.**

N9-2	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: • airblast overpressure (dB (Lin) Peak) • LA 10, adj, 10 mins • LA 1, adj, 10 mins • The level and frequency of occurrence of impulsive or tonal noise • Atmospheric conditions including wind speed and direction; • Effects due to extraneous factors such as traffic noise; and • Location, date and time of recording

Agency interest: Land	
Condition number	**Condition**
L9-1	The only contaminants permitted to be released to land are treated sewage effluent to the areas shown in Schedule 1 in compliance with the limits levels stated in Table 1 - Contaminant release limits and monitoring program and the conditions of this approval.

Quality Characteristics	Point of Compliance	Min	Short Term 50th percentile	Long Term 50th percentile	Max	Monitoring Frequency
BOD5 (mg/L)	W1	-	10	5	25	Monthly
Suspended Solids (mg/L)	W1	-	20	10	30	Monthly
Ammonia (mg/L)	W1	-	-	1	3	Monthly
Total Nitrogen (mg/L)	W1	-	-	5	15	Monthly
Total Phosphorus (mg/L)	W1	-	-	1	3	Monthly
Dissolved Oxygen (mg/L)	W1	2	-	-	-	Monthly
pH (pH Units)	W1	6.5			8.5	Monthly
Total Chlorine (mg/L)	W1 when discharging through W3	-	-	-	0.06	Weekly when discharging
Faecal Coliforms (CFU/100mL)	W1	-	500	-	1000	Monthly
Oil and Grease	W1	-	-	-	10	Monthly

W1 - monitoring point immediately following the chlorine contact chamber.

W3 - North Johnstone River outfall

L9-2	Treated effluent released to land must be done in accordance with documentation that ensures: 1. drainage to groundwater and subsurface flows of contaminants to surface waters are prevented 2. surface pondage and run-off of effluent is prevented 3. degradation of soil structure is minimised 4. soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised 5. spray drift or overspray does not carry beyond effluent disposal areas 6. effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake 7. sufficient buffer zones are maintained between irrigation sites and sensitive environmental receptors.
L9-3	The daily maximum of irrigation should not be more than 2,200m^3, unless it can be demonstrated that the soil moisture deficit will not be exceeded at the time of irrigation in which case up to 5,700m^3 on any one day can be irrigated.
L9-4	The capacity of the effluent storage pond is to be not less than 36.1ML and depth not less than 4.5m.
L9-5	A minimum area of 38 hectares of land, excluding any necessary buffer zones, must be utilised for the irrigation of treated effluent.
L9-6	Implement and maintain an irrigation monitoring program (IMP) for the release of contaminants to land(s). As a minimum, the IMP must include: (a) soil and sub-soil analysis, including assessment of the soils including types, structure, phosphorus adsorption capacity, nutrient status, salinity and sodicity, cation exchange capacity, pH and exchangeable sodium percentage (ESP) of the contaminant release areas(s), to be carried out at no less than six representative sites (including a maximum of two background sites) on an annual basis; (b) determination of the quantity and quality of contaminants applied; (c) periodic re-assessment, including modelling of the water, nutrient and salt balances and irrigation rate and return period should be undertaken, if necessary, to ensure sustainable use of the contaminant release area is being achieved; and (d) reporting of monitoring results, and an assessment of the impact of the releases on the contaminant release areas.
Agency interest: Waste	
Condition number	**Condition**
W9-1	Screenings, grit and sewage and wastewater treatment plant sludges generated by the sewage treatment plant process must not be stored on site for any period of time longer than that necessary to dewater the screenings, grit and sludge and prepare it for transport to and disposal at an appropriately authorised facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse, recycle or reprocess such waste (in accordance with a relevant resource approval).
W9-2	Sewage sludge generated on site must be monitored at lease annually to obtain the following information: (a) The estimated quantity and nature of each sludge produced (annual); and (b) The current method(s) of pre-treatment or disposal.

SCHEDULE 1 - Malanda STP - Effluent Application Area



Part 10 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2a) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >50t but <2000t per year	Topaz Refuse Tip – Lot 82 on Plan NR808386 (Reserve 2128) Topaz Road, TOPAZ QLD 4885

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G10-1	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G10-2	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G10-3	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.
G10-4	The Post Closure Care element of the Closure and Post Closure Care Plan must include, but not necessary limited to the following: (a) proposed after use of any area used for waste disposal; (b) maintenance of the integrity and effectiveness of final cover systems; and (c) maintenance of any drains or embankments used to divert stormwater away from any area previously used for waste disposal.
G10-5	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.

G10-6	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

Agency interest: Air

Condition number	**Condition**
A10-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.

Agency interest: Water

Condition number	**Condition**
WT10-1	The holder of this environmental authority must not allow any direct or indirect release of any leachate or contaminated stormwater generated on the licensed place to any land beyond the boundary of the licensed place, stormwater drain or waters.
WT10-2	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur. Particular attention must be paid to: 1. any active disposal trench; 2. any waste storage areas; and 3. any area previously used for waste disposal.

Agency interest: Noise

Condition number	Condition
N10-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

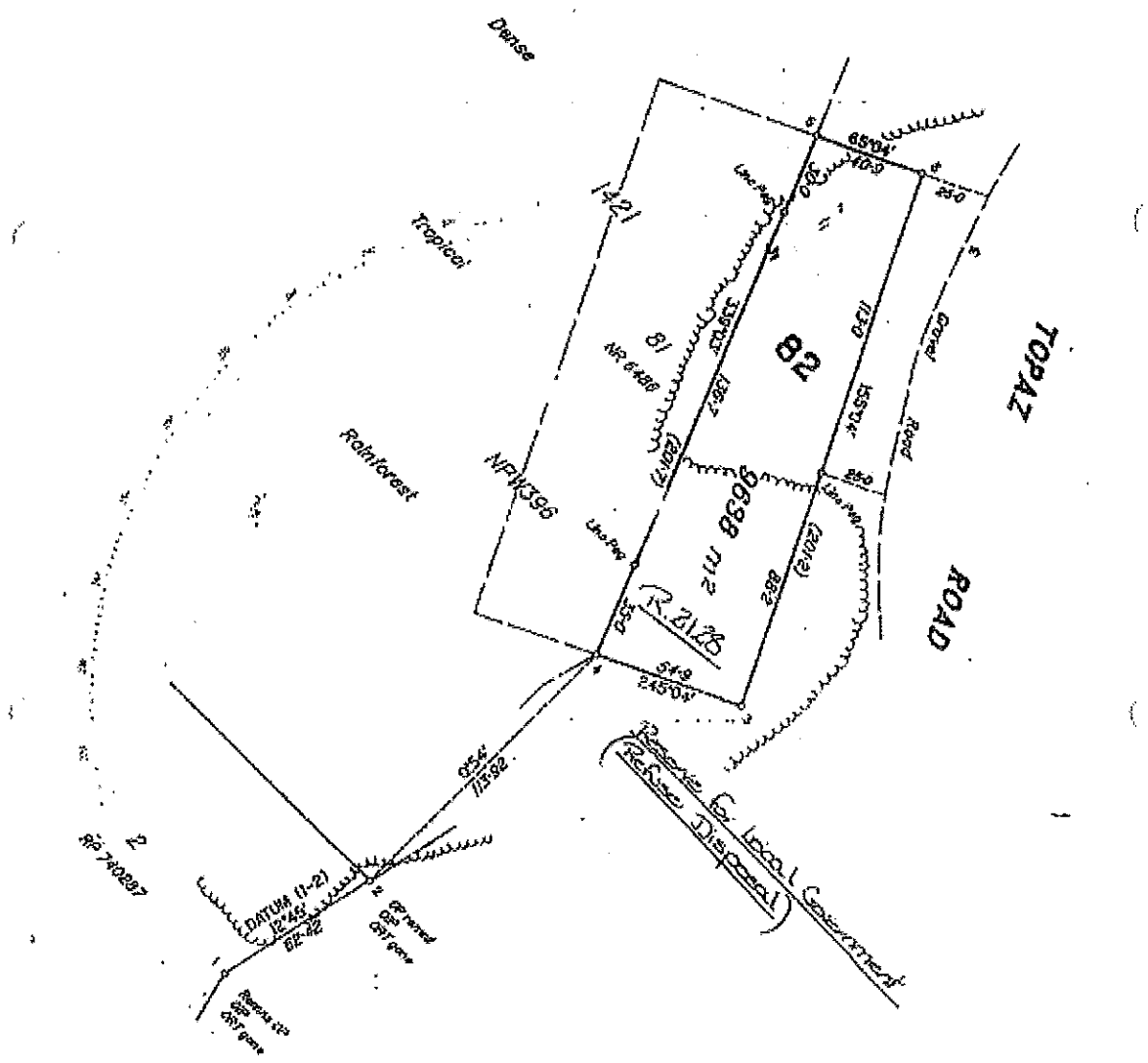
Table 1 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Waste

Condition number	Condition
W10-1	Leachate must not be irrigated on the surface areas of the licensed place that have received their final cover of topsoil or on any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.

SCHEDULE 1 - Topaz Refuse Tip - Site Location Plan



Part 11 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2b) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >2000t but <5000t per year	Millaa Millaa Tip – Lot 510 on Plan NR7893 (Reserve 2064) Theresa Creek Road, MILLAA MILLAA QLD 4886

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G11-1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G11-2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G11-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G11-4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G11-5	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.

G11-6	The Post Closure Care element of the Closure and Post Closure Care Plan must include, but not necessary limited to the following: a. proposed after use of any area used for waste disposal; b. the continuation of any monitoring program applicable to the post closure care of the licensed place; and c. maintenance of the integrity and effectiveness of final cover systems; and d. maintenance of any drains or embankments used to divert stormwater away from any area previously used for waste disposal.
G11-7	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G11-8	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'
Agency interest: Air	
Condition number	**Condition**
A11-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT11-1	The holder of this environmental authority must not allow any direct or indirect release of any leachate or contaminated stormwater generated on the licensed place to any land beyond the boundary of the licensed place, stormwater drain or waters.

WT11-2	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur. Particular attention must be paid to: (a) any active disposal trench; (b) any waste storage areas; and (c) any area previously used for waste disposal.

Agency interest: Noise

Condition number	Condition
N11-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits

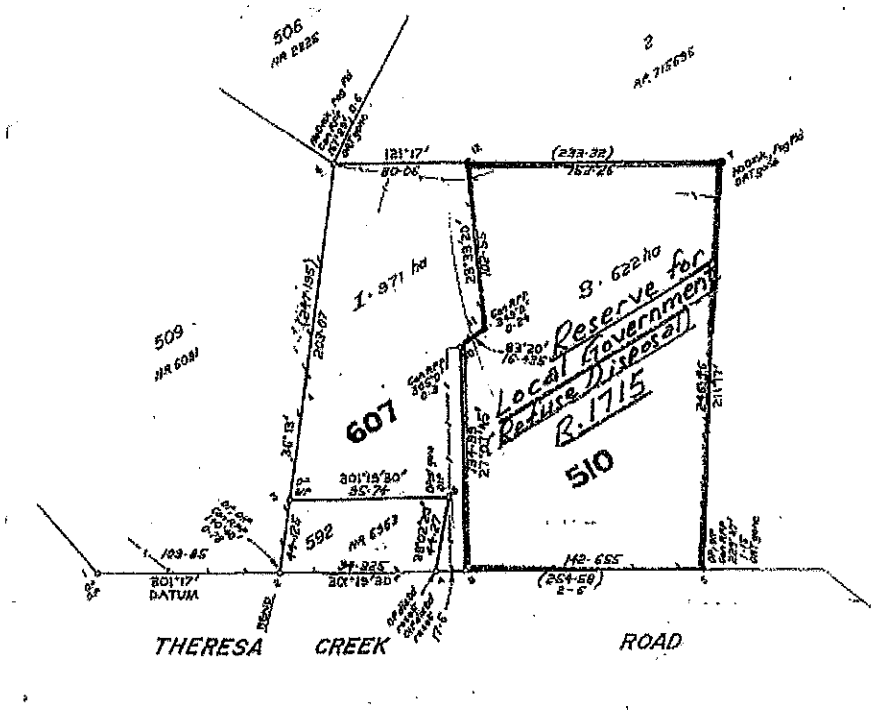
Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Waste

Condition number	Condition
W11-1	The following wastes must not be received onto the licensed place: (a) pyrophoric wastes (where co-disposed with other potentially combustible material); (b) untreated infectious wastes; (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; (d) liquescent waste streams or any waste capable of yielding free liquids; and (e) regulated wastes
W11-2	Leachate must not be irrigated on the surface areas of the licensed place that have received their final cover of topsoil or on any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.

W11-3	Waste tyres may be stored in temporary above ground heaps on the licensed place provided that there are no more than 500 waste tyres at any time in any one heap.
W11-4	Where there is more than one heap of waste tyres, a separation distance between the heaps must be established and maintained so as to effectively prevent fire from spreading: (a) from one tyre storage heap to another; and (b) to other waste stored or disposed of at the licensed place.
W11-5	Used wet cell batteries may only be temporarily stored on the licensed place, provided that the batteries are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the Environmental protection Act 1994) not less frequently than once every two (2) weeks.
W11-6	Used oil may be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the Environmental Protection Act 1994) not less frequently than once every two (2) weeks.

SCHEDULE 1 - Millaa Millaa Refuse Tip - Site Location Plan



Part 12 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2c) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >5000t but <10000t per year	Malanda Refuse Tip – Lot 10 SP241954, English Road, MALANDA QLD 4885

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G12-1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G12-2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G12-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G12-4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G12-5	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.

G12-6	The Post Closure Care element of the Closure and Post Closure Care Plan must include, but not necessary limited to the following: (a) proposed after use of any area used for waste disposal; (b) the continuation of any monitoring program applicable to the post closure care of the licensed place; and (c) maintenance of the integrity and effectiveness of final cover systems; and (d) maintenance of any drains or embankments used to divert stormwater away from any area previously used for waste disposal.
G12-7	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G12-8	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

Agency interest: Air

Condition number	**Condition**
A12-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.

Agency interest: Water

Condition number	**Condition**
WT12-1	The holder of this environmental authority must before 30 June 1998, submit to the administering authority a Groundwater Monitoring Plan for Malanda Refuse Tip. The Groundwater Monitoring Plan must include details of a groundwater monitoring program.

WT12-2	The groundwater monitoring program implemented at the licensed place must monitor the impact of the waste disposal facility on underlying aquifers. The system must include, but not be limited to, a sufficient number of bores installed at locations and depths which yield representative groundwater samples from at least the uppermost aquifer so as to: (a) establish the quality of groundwater that has not been affected by any leakage of contaminants to groundwater from the licensed place; and (b) detect any leakage of contaminants to groundwater from the licensed place including groundwater passing the point(s) of compliance. **Note:** For the purposes of groundwater monitoring, the point(s) of compliance must be a point being within 150 metres from any deposited waste, leachate storage and reticulation facility, or the property boundary of the licensed place.
WT12-3	The holder of this environmental authority must, commencing on or before 01 December 1988, monitor and record the quality of groundwater to detect any possible release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator quality groundwater characteristics: (a) pH; (b) electrical conductivity; (c) dissolved oxygen; (d) total dissolved solids; (e) ammoniacal-N; (f) manganese; (g) sulphate; (h) Nitrate (as N); (i) Chemical Oxygen Demand (COD); (j) chloride; and (k) total iron; (l) bicarbonate (HC03); (m) lead; and (n) zinc.
WT12-4	The holder of this environmental authority must monitor groundwater quality with samples collected from all monitoring bores on the licensed place not less frequently than quarterly each year.

Agency interest: Noise

Condition number	Condition
N12-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1- Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits

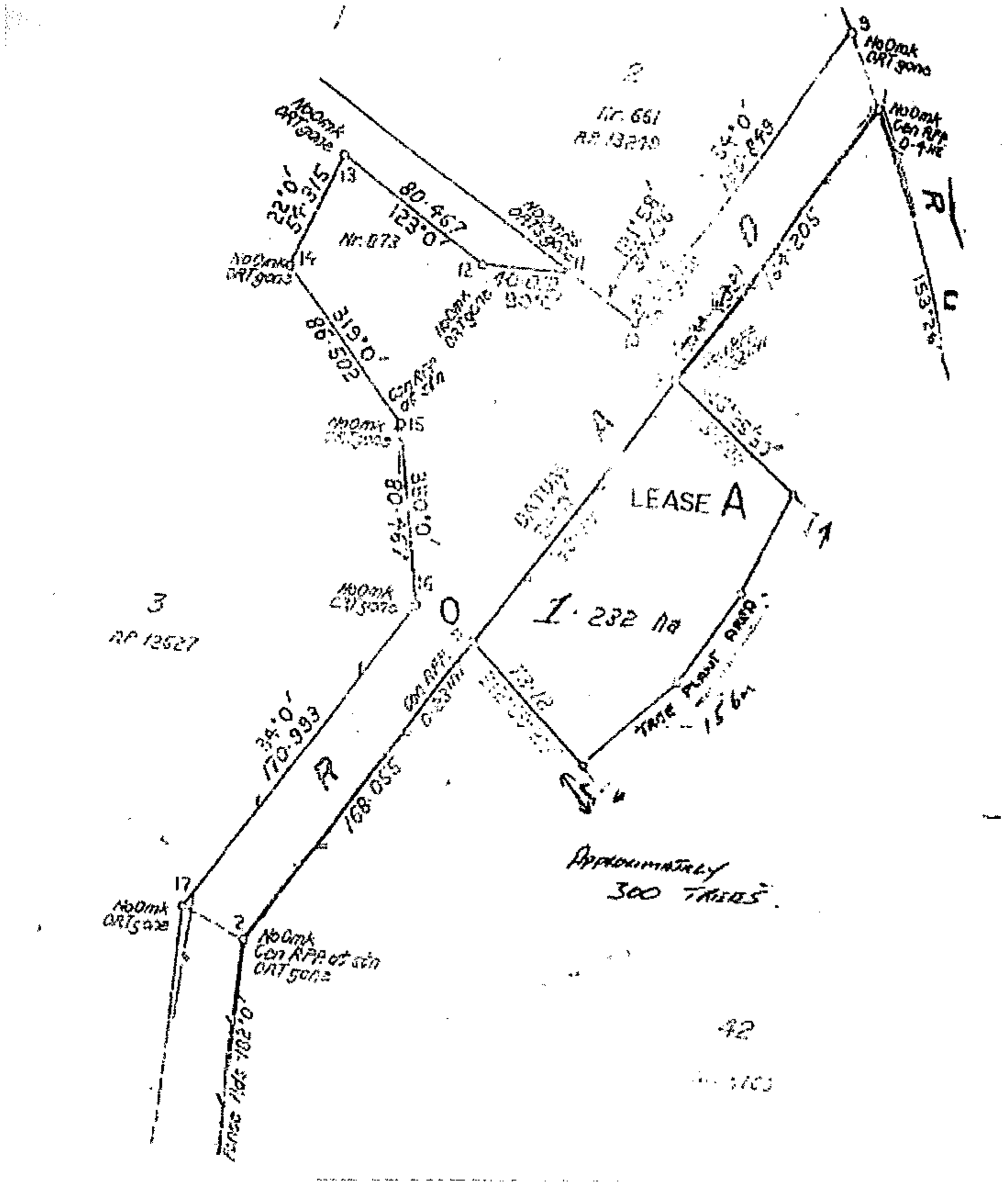
Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Waste

Condition number	Condition
W12-1	The following wastes must not be received onto the licensed place: a. pyrophoric wastes (where co-disposed with other potentially combustible material); b. untreated infectious wastes; c. explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; d. liquescent waste streams or any waste capable of yielding free liquids; and e. regulated wastes
W12-2	The holder of this environmental authority must not: (a) burn waste at or on any licensed place covered by this environmental authority; nor (b) allow waste to burn or be burnt at or on any licensed place covered by this environmental authority; nor (c) remove waste from any licensed place covered by this environmental authority and burn such waste elsewhere except in accordance with the requirements of the Environmental Protection Act 1994.

W12-3	Used wet cell batteries may only be temporarily stored on the licensed place, provided that the batteries are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the Environmental protection Act 1994) not less frequently than once two weeks.
W12-4	By 30 December 1998, used wet cell batteries may only be temporarily stored on the licensed place in: (a) the area designated for this purpose; and (b) a covered enclosure which has been bunded to contain spillages and leakages.
W12-5	Used oil may be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the Environmental protection Act 1994) not less frequently than every two weeks.
W12-6	By 30 December 1998, used oil may only be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers: (a) are stored in the area designated for this purpose; and (b) are bunded to contain spillages and leakages; and (c) are securely sealed when full to prevent rainwater entry and spillage (if knocked over); and (d) have a filling mechanism which prevents rainwater entry.

SCHEDULE 1 - Malanda Refuse Tip - Site Location Plan



Part 13 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2c) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >5000t but <10000t per year	Yungaburra Refuse Tip – Lot 550 on Plan NR7572 (Reserve 2063) Mulgrave Road, YUNGABURRA QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G13-1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G13-2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G13-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G13-4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G13-5	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.
G13-6	The Post Closure Care element of the Closure and Post Closure Care Plan must include, but not necessary limited to the following: (a) proposed after use of any area used for waste disposal; (b) maintenance of the integrity and effectiveness of final cover systems; and (c) maintenance of any drains or embankments used to divert stormwater away from any area previously used for waste disposal.

G13-7	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G13-8	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

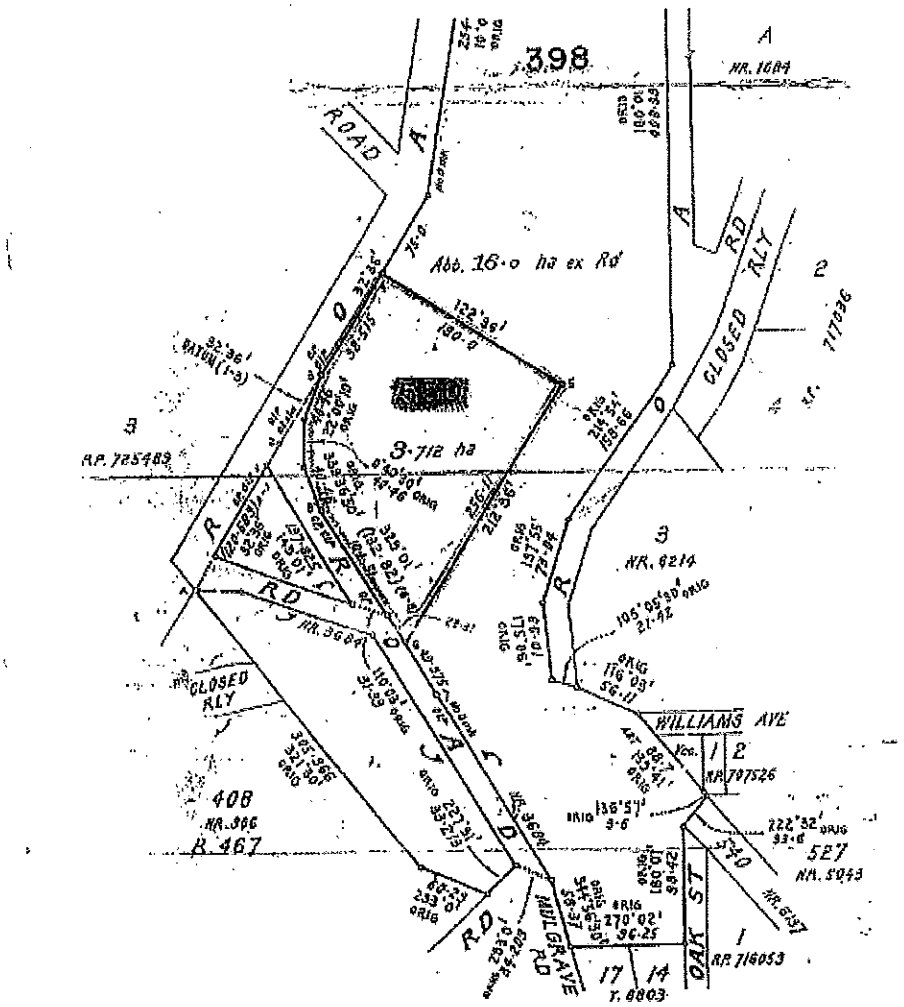
Agency interest: Water	
Condition number	**Condition**
WT13-1	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur. Particular attention must be paid to: (a) any waste storage areas; and (b) any cell previously used for waste disposal; and (c) any leachate collection pond (if applicable).

<table>
<tr><th colspan="2">Agency interest: Noise</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>N13-1</td><td>In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits
<table>
<tr><th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$</th><th>Period</th></tr>
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<tr><th>Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$</th><th>Period</th></tr>
<tr><td>background noise level plus 10dB(A)</td><td>7 am - 6 pm</td></tr>
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<tr><td>background noise level plus 8dB(A)</td><td>10 pm - 7 am</td></tr>
</table>
</td></tr>
</table>

Agency interest: Waste	
Condition number	**Condition**
W13-1	This environmental authority permits only the following wastes to be disposed of at the licensed place: (a) construction wastes and demolition waste; (b) minor quantities of regulated wastes incidental to and commingled with domestic refuse; (c) solid inert waste; (d) industrial and commercial wastes (except for regulated wastes other than those permitted under this condition); (e) tyres; (f) putrescible wastes and domestic garbage; and (g) green wastes. **Note:** (i) paper covered plasterboard must only be received at the licensed place if it is generated by construction and demolition activities and delivered to the licensed place as part of a mixed load of materials) and; (ii) drums containing any residual regulated wastes are themselves a regulated waste and must not be accepted for disposal at the site unless they have been steam cleaned, triple rinsed or thoroughly cleaned. (iii) batteries, waste oil and tyres may be temporarily stored on the licensed place; (iv) car bodies and recyclable solid inert wastes may be temporarily stored on the licensed place.
W13-2	The following wastes must not be accepted onto the licensed place: (a) pyrophoric wastes (where co-disposed with other potentially combustible material); (b) untreated infectious wastes; (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; (d) liquescent waste streams or any waste capable of yielding free liquids; and (e) regulated wastes other than those permitted in condition number W13-1.
W13-3	Used wet cell batteries may only be temporarily stored on the licensed place, provided that the batteries are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the Environmental protection Act 1994) not less frequently than once every two weeks.
W13-4	Used oil may be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the Environmental protection Act 1994) not less frequently than every two weeks.

SCHEDULE 1 - Yungaburra Refuse Tip - Site Location Plan



Part 14 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(1a) Waste Disposal Facility (any combination of regulated waste, general waste and limited regulated waste – and <5t untreated clinical wastes if in a scheduled are): <50000t per year	Peeramon Waste Disposal – Lot 56 on Plan NR1118 (Reserve 511) Wharton Street, PEERAMON QLD 4885

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G14-1	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G14-2	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G14-3	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.
G14-4	The Post Closure Care element of the Closure and Post Closure Care Plan must include, but not necessarily limited to the following: (a) proposed after use of any area used for waste disposal; (b) maintenance of the integrity and effectiveness of final cover systems; and (c) maintenance of any drains or embankments used to divert stormwater away from any area previously used for waste disposal.
G14-5	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.

G14-6	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

Agency interest: Water

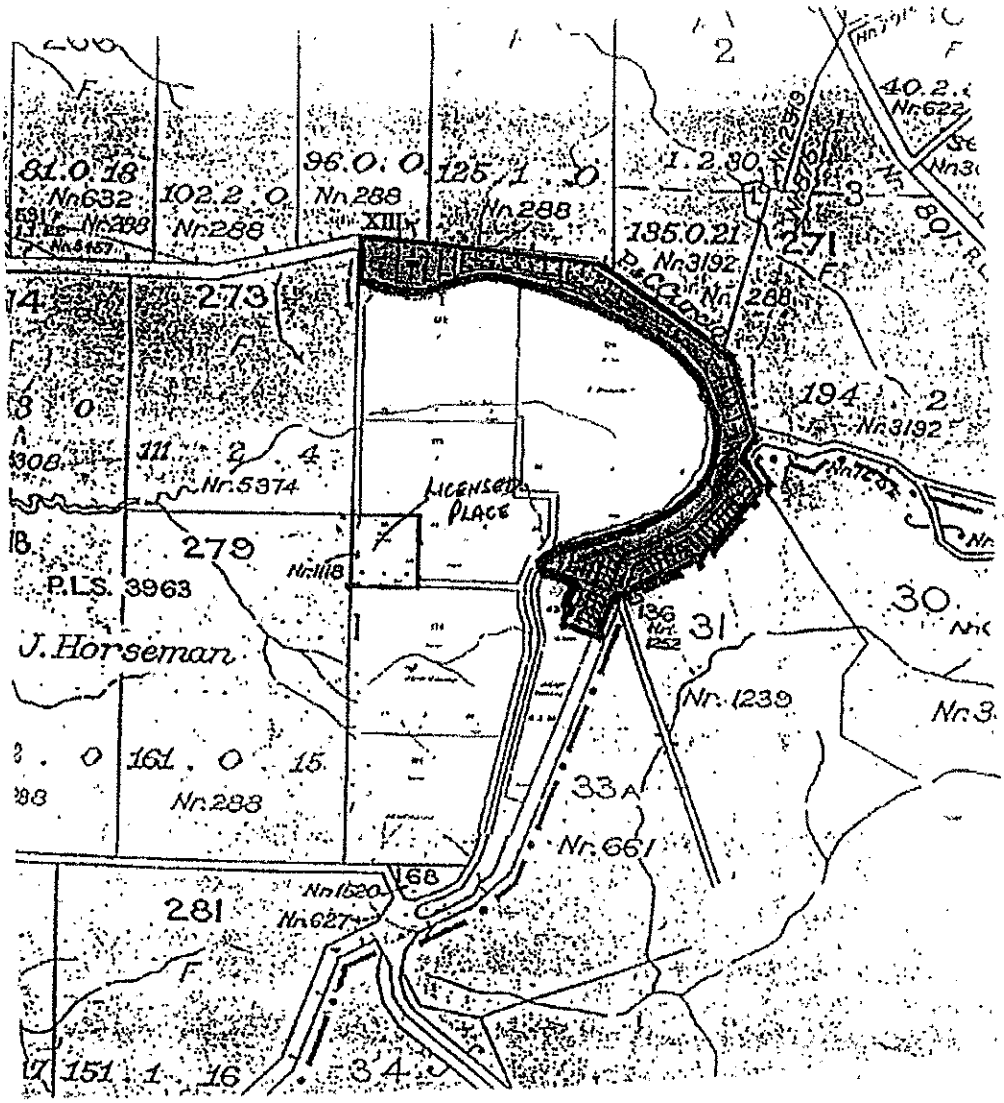
Condition number	Condition
WT14-1	The holder of this environmental authority must by 30 October 1998, submit to the administering authority a Groundwater Monitoring Plan for Peeramon Waste Disposal Facility. The Groundwater Monitoring Plan must include details of a groundwater monitoring program.
WT14-2	The groundwater monitoring program installed at the licensed place must effectively monitor the impact of the waste disposal facility on underlying aquifers. The system must include, but not be limited to, a sufficient number of bores installed at locations and depths which yield representative groundwater samples from at least the uppermost aquifer so as to detect any leakage of contaminants to groundwater from the licensed place or point(s) of compliance.
WT14-3	The holder of this environmental authority must from 30 December 1998, monitor and record the quality of groundwater to detect any release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator groundwater quality characteristics: (a) pH; (b) electrical conductivity; (c) dissolved oxygen; (d) Faecal Coliforms (Organisms/100 ml); and (e) E Coli. **Note:** For the purposes of groundwater monitoring, the point(s) of compliance must be a point being the closer of 150 metres from any deposited waste, leachate storage and reticulation facility, or the property boundary of the licensed place.
WT14-4	The holder of this environmental authority must monitor groundwater quality with samples collected from all monitoring bores on the licensed place as often as necessary but not less frequently than biannually each year.

Agency interest: Noise	
Condition number	**Condition**
N14-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
background noise level plus 5dB(A)	7 am - 6 pm
background noise level plus 5dB(A)	6 pm - 10 pm
background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
background noise level plus 10dB(A)	7 am - 6 pm
background noise level plus 10dB(A)	6 pm - 10 pm
background noise level plus 8dB(A)	10 pm - 7 am

SCHEDULE 1 - Peeramon Waste Disposal Facility - Site Location Plan



Part 15 - Site Specific Conditions

Environmentally relevant activities	Locations
ERA 60(1a) Waste Disposal Facility (any combination of regulated waste, general waste and limited regulated waste – and <5t untreated clinical wastes if in a scheduled are): <50000t per year ERA 60(2c) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >5000t but <10000t per year ERA 56 Receiving and Storing Regulated Waste	Atherton Landfill – Lot 100 SP252409 Herberton Road, CARRINGTON QLD 4883

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G15-1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G15-2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G15-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G15-4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G15-5	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.

G15-6	The Post Closure Care Plan must include, but not necessarily be limited to the following: (a) the continuation of any monitoring program applicable to the Post Closure Care Plan at the licensed place; (b) maintenance of the integrity and effectiveness of any low permeability final cover material; and (c) maintenance of vegetation planted as part of the Post Closure Care Plan.
Agency interest: Air	
Condition number	**Condition**
A15-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT15-1	The holder of this environmental authority must not allow any direct or indirect release of any leachate generated on the licensed place to any land beyond the boundary of the licensed place, stormwater drain, roadside gutter or waters.
WT15-2	The holder of this environmental authority must, before 1 September 1997, develop and submit to the administering authority for review and comment, a Groundwater Monitoring Plan for the Atherton Landfill. The Groundwater Monitoring Plan must include details of a groundwater monitoring program.
WT15-3	The groundwater monitoring program developed for the licensed place must monitor the impact of the waste disposal facility on underlying aquifers. The program must include at least a sufficient number of bores installed at locations and depths which yield representative groundwater samples from at least the uppermost aquifer so as to: (a) establish the quality of groundwater that has not been affected by any leakage of contaminants to groundwater from the licensed place; and (b) detect any leakage of contaminants to groundwater from the licensed place including groundwater passing the point(s) of compliance. **Note** For the purposes of groundwater monitoring, the point(s) of compliance shall be a point being within 150 metres of any deposited waste, leachate storage and reticulation facility, or the property boundary of the licensed place.

WT15-4	The holder of this environmental authority must, commencing in October 1997 monitor and record the quality of groundwater to detect any possible release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator water quality characteristics: (a) pH; (b) electrical conductivity; (c) total dissolved solids; (d) dissolved oxygen; (e) nitrate; (f) calcium; (g) chloride; (h) sodium; (i) lead; (j) zinc; (k) iron; (l) Chemical Oxygen Demand; and (m) total organochlorine pesticides.
WT15-5	The holder of this environmental authority must monitor groundwater quality with samples collected from all monitoring bores on the licensed place not less frequently than quarterly each year.

Agency interest: Noise

Condition number	**Condition**
N15-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 5dB(A)	7 am - 6 pm
Background noise level plus 5dB(A)	6 pm - 10 pm
Background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 10dB(A)	7 am - 6 pm
Background noise level plus 10dB(A)	6 pm - 10 pm
Background noise level plus 8dB(A)	10 pm - 7 am

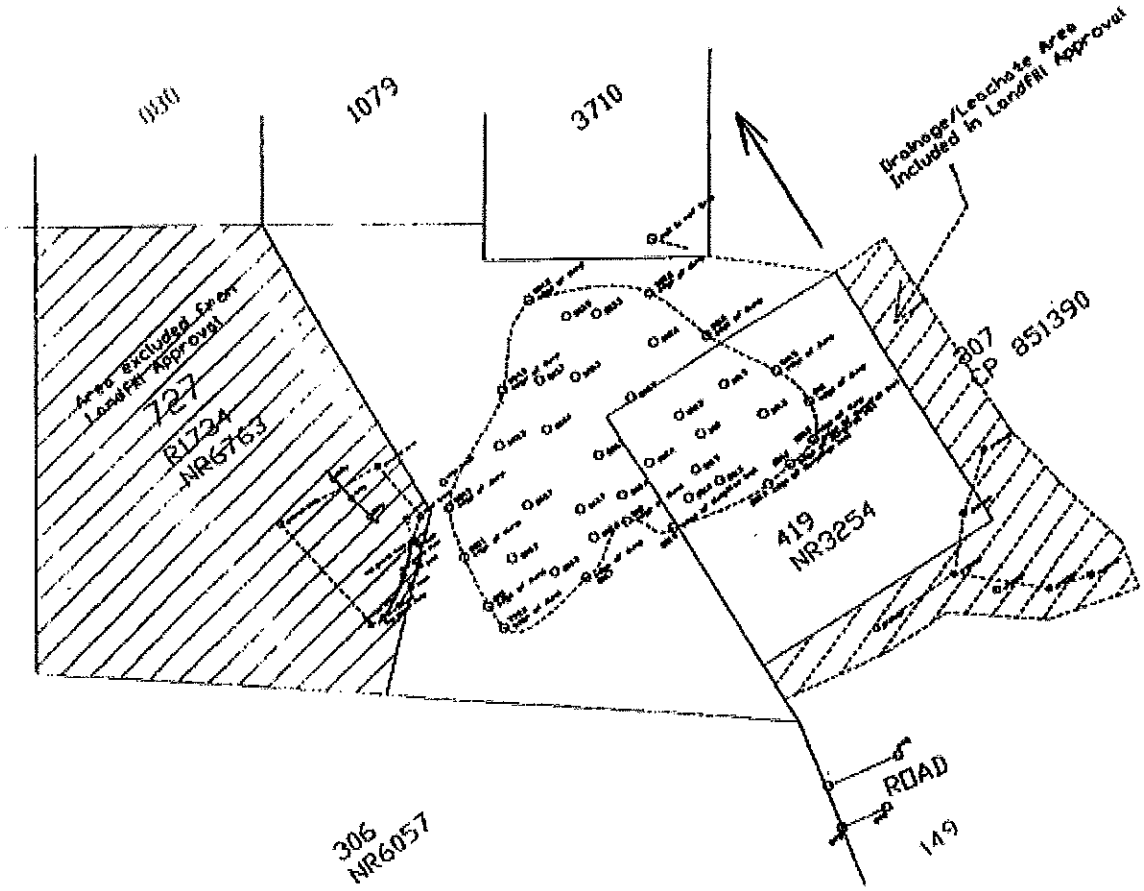
Agency interest: Land	
Condition number	**Condition**
L15-1	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
L15-2	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'
Agency interest: Waste	
Condition number	**Condition**
W15-1	From 1 August 1998, this environmental authority permits only the following wastes to be received for disposal at the licensed place; (a) construction and demolition wastes; (b) solid inert waste; (c) dewatered bacterial sludges; (d) green wastes.

W15-2	From 1 August 1998, this environmental authority permits only the following regulated wastes to be received for storage at the licensed place: (a) waste oil; and (b) dewatered bacterial sludges. Note: (i) paper covered plasterboard must only be received at the licensed place if it is generated by construction and demolition activities and delivered to the licensed place as part of a mixed load of materials; (ii) car bodies and other solid inert wastes received for recycling may be temporarily stored at the licensed place; (iii) dewatered bacterial sludge may be received for temporary storage prior to being composted with green wastes on the licensed place; (iv) composted dewatered sewage sludge and green waste may be stored or disposed of on the licensed place; and (v) drums containing any residual regulated wastes are themselves a regulated waste and must not be accepted for disposal at the licensed place unless they have been triple rinsed, pressure rinsed or thoroughly cleaned. (c) Tyre storage (limit of 800 tyres on site)
W15-3	The following wastes must not be received for disposal on the licensed place: (a) pyrophoric wastes (where co-disposed with other potentially combustible material); or (b) untreated infectious wastes; or (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; or (d) liquescent waste streams or any waste capable of yielding free liquids; or (e) putrescible wastes or domestic refuse; or (f) regulated wastes other than those specified under condition numbers W15-1 and W15-2.
W15-4	Any leachate and contaminated stormwater migrating from perimeter embankments of any waste disposal area must be effectively intercepted by a leachate collection system installed at the licensed place.
W15-5	The holder of this environmental authority must ensure that any leachate or contaminated stormwater intercepted by a leachate collection system is: (a) conveyed to a leachate storage pond or tank; or (b) disposed of in accordance with condition number W15-6.
W15-6	The holder of this environmental authority may only dispose of leachate or contaminated stormwater generated on the licensed place by: (a) evaporation in a pond located on a capped area of the licensed place; or (b) recirculation back into the areas of the licensed place where waste disposal is taking place; or (c) irrigation over exposed wastes on the licensed place.

W15-7	Leachate must not be disposed of on the surface of any area of the licensed place that has received its final cover of topsoil or any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.
W15-8	Waste oil may be stored in drums or other containers at the licensed place, provided that the drums or containers are: (a) stored in the area designated for this purpose; (b) from 1 December 1997, stored in a bunded area to contain spillages and leakages; (c) securely sealed when full to prevent rainwater entry and spillage (if knocked over); and (d) have a filling mechanism which prevents rainwater entry.
W15-9	The holder of this environmental authority must ensure that any dewatered bacterial sludge received for composting on the licensed place is only stored and composted in an area of the licensed place designated for this purpose on the Site Development Plan.
W15-10	Leachate or contaminated stormwater generated on the bacterial sludge storage and composting area must be intercepted and: (a) conveyed to a leachate storage pond or tank; or (b) reticulated back through the compost windrows; or (c) disposed of in accordance with condition number W15-6.

W15-12	The holder of this environmental authority must monitor and record the quality of any leachate collected in the leachate storage tank installed on the licensed place by: (a) taking samples of leachate from the leachate storage tank installed on the licensed place at least once in the month of October each year; and (b) analysing the samples obtained in accordance with paragraph (a) of this condition for the following parameters: (i) electrical conductivity; (ii) pH; (iii) dissolved oxygen; (iv) nitrate; (v) sodium; (vi) chloride; (vii) calcium; (viii) sulphate; (ix) iron; (x) lead; (xi) zinc; (xii) Chemical Oxygen Demand (COD); (xiii) 5-Day Biological Oxygen Demand (BOD_5); and (xiv) total organochlorine pesticides.
W15-13	The holder of this environmental authority must maintain leachate monitoring points for the purpose of sampling leachate from the leachate storage tank or pond installed on the licensed place.

SCHEDULE 1 - Atherton Landfill



Part 16 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2b) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >2000t but <5000t per year	Alcatraz Landfill – Lot 41 on Plan SP158034 Kennedy Highway, INNOT HOT SPRINGS QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G16-1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G16-2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G16-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G16-4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G16-5	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.
G16-6	This Post-Closure Care Program must include, but not necessarily be limited to, the following: (a) continuation of any monitoring programs required for the approved place under this environmental authority; and (b) maintaining the integrity and effectiveness of the landfill cap; and (c) maintaining and operating any leachate collection system; and (d) maintaining and operating any landfill gas collection system; and (e) maintenance of vegetation planted under the Final Use and Rehabilitation plan.

Agency interest: Air	
Condition number	**Condition**
A16-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT16-1	The holder of this environmental authority must, before the commencement of the activity, develop and submit to the administering authority for review and comment, a Groundwater Monitoring Plan for the Alcatraz landfill. The Groundwater Monitoring Plan must include details of a groundwater monitoring program which must: (a) monitor the impact of the waste disposal facility on underlying aquifers likely to be affected by the operations at the approved place; and (b) include at least a sufficient number of bores installed at locations and depths which yield representative groundwater samples from at least the uppermost aquifer so as to establish the quality of groundwater that has not been affected by any leakage of contaminants to groundwater from Alcatraz Landfill; and (c) detect any leakage of contaminants to groundwater from Alcatraz Landfill including groundwater passing the point(s) of compliance. **Note** For the purposes of groundwater monitoring, the point(s) of compliance shall be a point being within 150 metres of any deposited waste, leachate storage and reticulation facility, or the property boundary of the approved place.

WT16-2	The holder of this environmental authority must, upon commencement of the activity monitor the quality of groundwater to detect any possible release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator water quality characteristics: (a) pH; (b) electrical conductivity; (c) dissolved oxygen; (d) total oxidised nitrogen; (e) total nitrogen; (f) ammonia; (g) chloride; (h) sodium; (i) lead; (j) zinc; (k) iron; (l) Chemical Oxygen Demand; and (m) Biological Oxygen Demand (BOD_5).
WT16-3	The holder of this environmental authority must monitor groundwater quality with samples collected from all monitoring bores on the licensed place not less frequently than quarterly each year.
WT16-4	The holder of this environmental authority must, by the commencement of the activity submit to the administering authority a Surface Water Monitoring Plan (SWMP) for the Alcatraz Landfill. This SWMP must be implemented to monitor the impact of the waste disposal facility on the gully adjacent to Alcatraz Landfill. The SWMP must include, but not be limited to, a sufficient number of sampling points to monitor surface water at locations and depths so as to establish the: (a) quality of surface water upstream of the gully adjacent to Alcatraz Landfill; and (b) detect any release of contaminants to the adjacent surface water gully downstream of Alcatraz Landfill.

WT16-5	The holder of this environmental authority must after the commencement of the activity commence monitoring the quality of surface water to detect any possible release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator water quality characteristics: (a) pH; (b) electrical conductivity; (c) dissolved oxygen; (d) Total oxidised Nitrogen; (e) Total Nitrogen; (f) Ammonia; (g) chloride; (h) sodium; (i) lead; (j) zinc; (k) iron; (l) Chemical Oxygen Demand; and (m) Biological Oxygen Demand (BOD_5).
WT16-6	The holder of this environmental authority must monitor surface water quality with samples collected from monitoring points not less frequently than once in each of the months January and March when the surface water flow in the gully is sufficient to permit samples to be collected.
Agency interest: Noise	
Condition number	**Condition**
N16-1	Noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.

Agency interest: Land	
Condition number	**Condition**
L16-1	The holder of this environmental authority must submit a finalised Final Use and Rehabilitation Plan to the administering authority at least six (6) months before the anticipated cessation of waste disposal operations on the site which must include, as a minimum, the following: (a) options for the use of the site after cessation of waste disposal operations; and (b) proposed final surface levels and contours; and (c) final site surface drainage system which must be designed so that neither existing drainage paths nor existing drainage patterns are altered to disadvantage adjoining landowners; and (d) disposal of leachate collected after final covering and revegetation of the site; and (e) species of vegetation to be planted which would have a high rate of transpiration, not be a weed to the surrounding area and, if compatible with the final use of the site, would allow eventual re-establishment of local native species; and (f) maintenance of all vegetation planted under the plan to ensure its survival and effectiveness.
L16-2	Landfill cells must be completed as required by covering the waste deposited in the cell with a layer of cover material so that a total cover of at least 150 millimetres in thickness is achieved over the waste being covered.
L16-3	Any batters around the perimeter of any landfill cell must have a gradient of no more than one (1) vertical in 1.5 horizontal.

L16-4	Rehabilitation of the site must be conducted progressively as each cell is completed. The rehabilitation process must include, as a minimum, the following: (a) the placement of a landfill cap consisting of: (1) a final cover of compacted clay at least 300 millimetres in depth, or other materials, achieving in place a maximum permeability of 1 X 10^{-9} metres per second, must be placed over the completed cell to minimise the ingress of rainwater into the landfill; and (2) the compacted clay cap must be graded and/or have an effective drainage system installed on top of it to both facilitate sub surface drainage of water below the final topsoil layer and to minimise the risk of water perching on top of the clay cap; and (3) a layer of at least 400 millimetres of topsoil capable of supporting vegetation must be placed over the drainage layer and be planted with a shallow rooted cover crop as soon as possible after placement of the topsoil layer. (4) **Note:** This layer of topsoil must be thicker, if necessary, to provide an adequate growing medium for any deeper rooted species of vegetation planted and to also prevent any root penetration of the clay cap on the site; and (b) the final surface of the site must be: (1) graded and maintained to promote run-off; and (2) drained to prevent ponding of surface water; and (3) vegetated to minimise infiltration and erosion. The species chosen must have a high rate of transpiration, not be a weed to the surrounding area and, if compatible with the final use of the site, should allow eventual re-establishment of local native species; and (c) the final covering works required under this condition must be commenced within twenty-eight (28) days of completion of each cell. (d) revegetated areas must be monitored and maintained to have a ground cover density equivalent to adjacent undisturbed areas.
Agency interest: Waste	
Condition number	**Condition**
W16-1	Leachate migrating from any perimeter embankments of any waste disposal cell must be effectively intercepted by a leachate collection system installed at the approved place.
W16-2	The holder of this environmental authority must ensure that any leachate or contaminated stormwater generated by carrying out waste disposal activities on the approved place is intercepted by a leachate collection system installed into any waste disposal cell and conveyed to the leachate storage tank.

W16-3	The holder of this environmental authority may only dispose of leachate or contaminated stormwater intercepted and conveyed to the leachate storage tank: (a) by evaporation on the approved place; or (b) by recirculation back into the areas of the approved place where waste disposal has or is taking place; or (c) by irrigation over exposed wastes on the approved place; or (d) to sewer in accordance with the relevant local government's Trade Waste Policy.
W16-4	Leachate must not be disposed of on the surface areas of the approved place that have received their final cover of topsoil or on any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.
W16-5	This environmental authority permits only the following wastes to be disposed of at the approved place: (a) construction wastes and demolition waste; (b) minor quantities of regulated wastes incidental to and commingled with domestic refuse; (c) treatment tank sludges and residues received from Ravenshoe Sewage Treatment Plant; (d) grease trap waste; (e) solid inert waste; (f) tyres; (g) putrescible wastes and domestic garbage; (h) green wastes; and **Note:** 1. grease trap waste must be mixed with a bulking medium to render it incapable of yielding free liquid; 2. paper covered plasterboard must only be received at the approved place if it is generated by construction and demolition activities and delivered to the approved place as part of a mixed load of materials; 3. car bodies and other recyclable solid wastes may be temporarily received and stored at the approved place; 4. drums containing any residual regulated wastes are themselves a regulated waste and must not be accepted for disposal at the approved place unless they have been triple rinsed or thoroughly cleaned; 5. oil, batteries and tyres may be temporarily stored at the approved place; and 6. limited regulated waste (items (c) and (f) above) received at the facility in a year must not be more than 10% of the waste received at the facility in the year.

W16-6	The following wastes must not be received at the approved place: (a) pyrophoric wastes (where co-disposed with other potentially combustible material); (b) untreated infectious wastes, pharmaceutical wastes, human body parts, pathogenic wastes and cytotoxic wastes; (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; (d) liquescent waste streams or any waste capable of yielding free liquids; and (e) regulated wastes.
W16-7	The holder of this environmental authority must record and monitor the quality of any leachate collected at the base of the waste disposal facility in accordance with the following requirements: (a) a sample of leachate must be taken from the leachate collection tank on at least one (1) occasion in the month of November each year; and (b) the sample obtained in accordance with paragraph (a) of this condition must be analysed for the following parameters: (i) pH; (ii) electrical conductivity; (iii) dissolved oxygen; (iv) total oxidised nitrogen; (v) total nitrogen; (vi) ammonia; (vii) chloride; (viii) sodium; (ix) lead; (x) zinc; (xi) iron; (xii) Chemical Oxygen Demand; and (xiii) Biological Oxygen Demand (BOD_5).

Part 17 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2a) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >50t but <2000t per year	Ravenshoe Landfill – Lot 308 on Plan CWL2530 Kennedy Highway, HERBERTON QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G17-1	All reasonable and practicable **measures** must be taken to contain litter within the **waste operations area**, and retrieve litter released.
G17-2	All reasonable and practicable **measures** must be taken to exclude vectors and pest species to the extent necessary to prevent: 1. nuisance to occupiers of neighbouring premises 2. any danger or risk to the health of any persons.
G17-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G17-4	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G17-5	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.
G17-6	The Post Closure Care Plan must include, but not necessarily limited to the following: (a) maintenance of the integrity and effectiveness of final cover systems; (b) maintenance and operation of any leachate collection system installed as part of the Closure Plan; and (c) surface water monitoring.

G17-7	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G17-8	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

Agency interest: Air

Condition number	**Condition**
A17-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.

Agency interest: Water

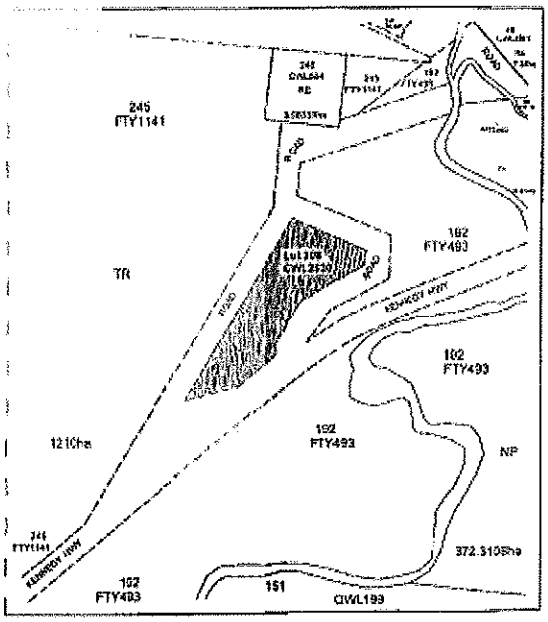
Condition number	**Condition**
WT17-1	The holder of this environmental authority must develop a Surface Water Monitoring Plan for the Ravenshoe Landfill. The Surface Water Monitoring Plan must include details of the surface water monitoring program.
WT17-2	The surface water monitoring program must be implemented to monitor the impact of the waste disposal facility on the gully adjacent to Ravenshoe Landfill. The program must include, but not be limited to, a sufficient number of sampling points to monitor surface water at locations and depths so as to establish: (a) the quality of surface water in the adjacent gully upstream of the Ravenshoe Landfill; and (b) the quality of surface water in the gully adjacent to Ravenshoe Landfill downstream of any potential leakage of contaminants to surface water from Ravenshoe Landfill.

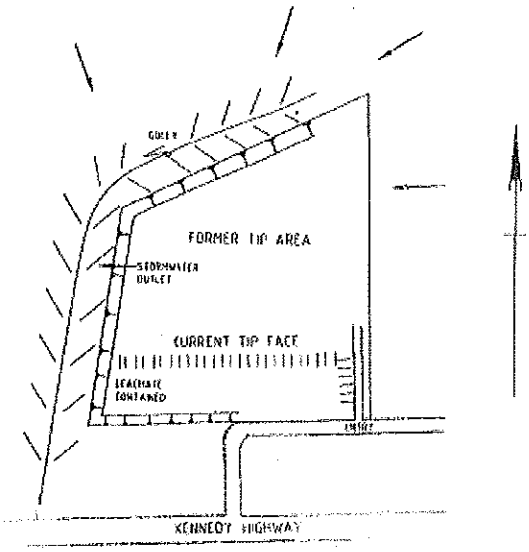
WT17-3	The holder of this environmental authority must monitor and record the quality of surface water to detect any possible release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator water quality characteristics: (a) pH; (b) electrical conductivity (c) dissolved oxygen; (d) total dissolved solids; (e) Chromium; (f) manganese; (g) ammoniacal-N; (h) calcium; (i) sulphate; (j) iron; (k) lead; (l) zinc; (m) Chemical Oxygen Demand (COD); and (n) Biological Oxygen Demand (BOD_5).
Agency interest: Waste	
Condition number	**Condition**
W17-1	The holder of this environmental authority must ensure that any leachate or contaminated stormwater intercepted by the leachate collection system is: (a) conveyed to leachate storage tank or pond, or (b) disposed of in accordance with condition number W17-2.
W17-2	The holder of this environmental authority may only dispose of leachate or contaminated stormwater generated on the licensed place: (a) by evaporation on the licensed place; or (b) by recirculation back into the areas of the licensed place where waste disposal is taking place; or (c) by irrigation over exposed wastes on the licensed place.
W17-3	Leachate must not be disposed of on the surface areas of the licensed place that have received their final cover of topsoil or on any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.

W17-4	This environmental authority permits only the following wastes to be received at the licensed place; (a) construction wastes and demolition waste; (b) treatment tank sludges and residues received from Ravenshoe Sewage Treatment Plant; (c) solid inert waste; (d) putrescible wastes and domestic garbage; (e) green wastes; and (f) tyres, asbestos sheeting or asbestos products. **Note:** (i) paper covered plasterboard must only be received at the licensed place if it is generated by construction and demolition activities and delivered to the licensed place as part of a mixed load of materials; (ii) car bodies and other large metal objects for recycling may be temporarily received and stored at the licensed place; (iii) drums containing any residual regulated wastes are themselves a regulated waste and must not be accepted for disposal at the licensed place unless they have been triple rinsed or thoroughly cleaned; and (iv) oil, batteries and tyres may be temporarily stored at the licensed place.
W17-5	The following wastes must not be accepted onto the licensed place: (a) pyrophoric wastes (where co-disposed with other potentially combustible material); (b) untreated infectious wastes; (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; (d) liquescent waste streams or any waste capable of yielding free liquids; and (e) regulated wastes other than those specified under condition number W17-4.
W17-6	Waste tyres may be stored in temporary above ground heaps on the licensed place provided that there are no more than 500 waste tyres at any time in any one heap.
W17-7	Used wet cell batteries may only be temporarily stored on the licensed place, provided that the batteries are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the *Environmental Protection Act 1994*) as often as is necessary to ensure compliance with the IEMS but in any case, not less frequently than once every (2) weeks.
W17-8	Used oil may be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers are removed from the licensed place (and transported to a facility for storage, treatment or disposal in accordance with the *Environmental Protection Act 1994*) as often as is necessary to ensure compliance with the IEMS but in any case, not less frequently than once every (2) weeks.

W17-9	Dewatered treatment tank sludges and residues received from Ravenshoe Sewage Treatment Plant may be reused at the licensed place in the rehabilitation of completed areas of the landfill provided: (a) that any such waste has been aged for a period of not less than one (1) year; (b) the treatment tank sludges and residues are not applied to the same area any more than once in any five (5) year period; (c) the treatment tank sludges and residues are thoroughly mixed with green waste or clean earth prior to application to completed areas; (d) the treatment tank sludges and residues are dried to at least 70% solid contents; (e) the treatment tank sludges and residues are not accessible by public or stock animals for at least four (4) weeks after application to completed areas; (f) the treatment tank sludges and residues are not applied to slopes greater than 25% and in any case not applied to any slope greater than 15% during the months from December through to April in any year; (g) the treatment tank sludges and residues are not applied during any prolonged rainfall event.

SCHEDULE 1 - Ravenshoe Landfill





Part 18 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(1a) Waste Disposal Facility (any combination of regulated waste, general waste and limited regulated waste – and <5t untreated clinical wastes if in a scheduled are): <50000t per year	Herberton Sanitary Depot – Lot 1 on Plan CP818023 Atherton – Herberton Road, HERBERTON QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G18-1	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.
G18-2	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G18-3	The holder of this environmental authority must submit to the administering authority a Closure Plan and a Post Closure Care Plan and Maintenance Plan for the licensed place at least six months before the planned closure of the licensed place.
G18-4	The Post Closure Care Plan must include, but not necessarily limited to the following: (a) maintenance of the integrity and effectiveness of final cover systems; (b) maintenance and operation of any leachate collection system installed as part of the Closure Plan; and (c) surface water monitoring.
G18-5	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 1. infiltration of water into the **landfill unit** and water ponding on the surface; and 2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.

G18-6	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

Agency interest: Air

Condition number	Condition
A18-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.

Agency interest: Water

Condition number	Condition
WT18-1	The holder of this environmental authority must develop a Groundwater Monitoring Plan for Herberton Sanitary Depot. The Groundwater Monitoring Plan must include details of the groundwater monitoring program.
WT18-2	The groundwater monitoring program installed at the licensed place must effectively monitor the impact of the waste disposal facility on underlying aquifers. The system must include, but not be limited to, a sufficient number of bores installed at locations and depths which yield representative groundwater samples from at least the uppermost aquifer so as to detect any potential leakage of contaminants to groundwater from the licensed place.
WT18-3	The holder of this environmental authority must monitor and record the quality of groundwater to detect any possible release(s) of contaminants. This monitoring must be undertaken for, at least, the following indicator groundwater quality characteristics: (a) pH; (b) electrical conductivity; (c) dissolved oxygen; (d) Faecal Coliforms (Organisms/100 ml); and (e) E Coli.

WT18-4	The holder of this environmental authority must monitor groundwater quality with samples collected from all monitoring bores on the licensed place as often as is necessary but not less frequently than biannually each year.

Part 19 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 60(2c) Waste Disposal Facility (any combination of general waste and no more than 10% limited regulated waste): >5000t but <10000t per year	Herberton Landfill – Lot 250 on Plan CWL840900 Syme Road, HERBERTON QLD 4872

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G19-1	Following cessation of deposition of waste in the **landfill unit**, post-closure care of the **landfill unit** must be conducted for a period of 30 years or until the **administering authority** determines, on the basis of correct information, that the **landfill unit** and surrounding site are stable and that no release of waste materials, **leachate**, landfill gas or other contaminants that may cause environmental harm is likely.
G19-2	The Post Closure Care Plan must include, but not necessarily be limited to the following: (d) the continuation of any monitoring program if required as a result of the groundwater evaluation, surface water evaluation and landfill gas monitoring requirements of this environmental authority; (e) maintenance of the integrity and effectiveness of any low permeability final cover material; and (f) maintenance of vegetation planted on the completed capped and drained waste disposal areas.
G19-3	When the deposition of waste to the **landfill unit** ceases, a final capping system to the **landfill unit** must be designed by an **appropriately qualified person** and installed to minimise: 3. infiltration of water into the **landfill unit** and water ponding on the surface; and 4. the likelihood of any erosion occurring to either the final capping system or the landfilled materials. A final capping system is not required where the deposition of waste to a **landfill unit** ceases temporarily for the purpose of using an alternative working face.

G19-4	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is minimised 3. the quality of **water**, including seepage, released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the final landform is stable and protects public safety 7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the 'National Environmental Protection (Assessment of Soil Contamination) Measure 1999.'

Agency interest: Air

Condition number	**Condition**
A19-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.

Agency interest: Water

Condition number	**Condition**
WT19-1	The environmentally relevant activity must be carried out in a manner that will ensure no direct or indirect release of any leachate generated on the licensed place to any land beyond the boundary of the licensed place, stormwater drain or waters.
WT19-2	A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur. Particular attention must be paid to any: (a) any waste storage areas; (b) any cell previously used for waste disposal; and (c) any leachate collection pond (if applicable).

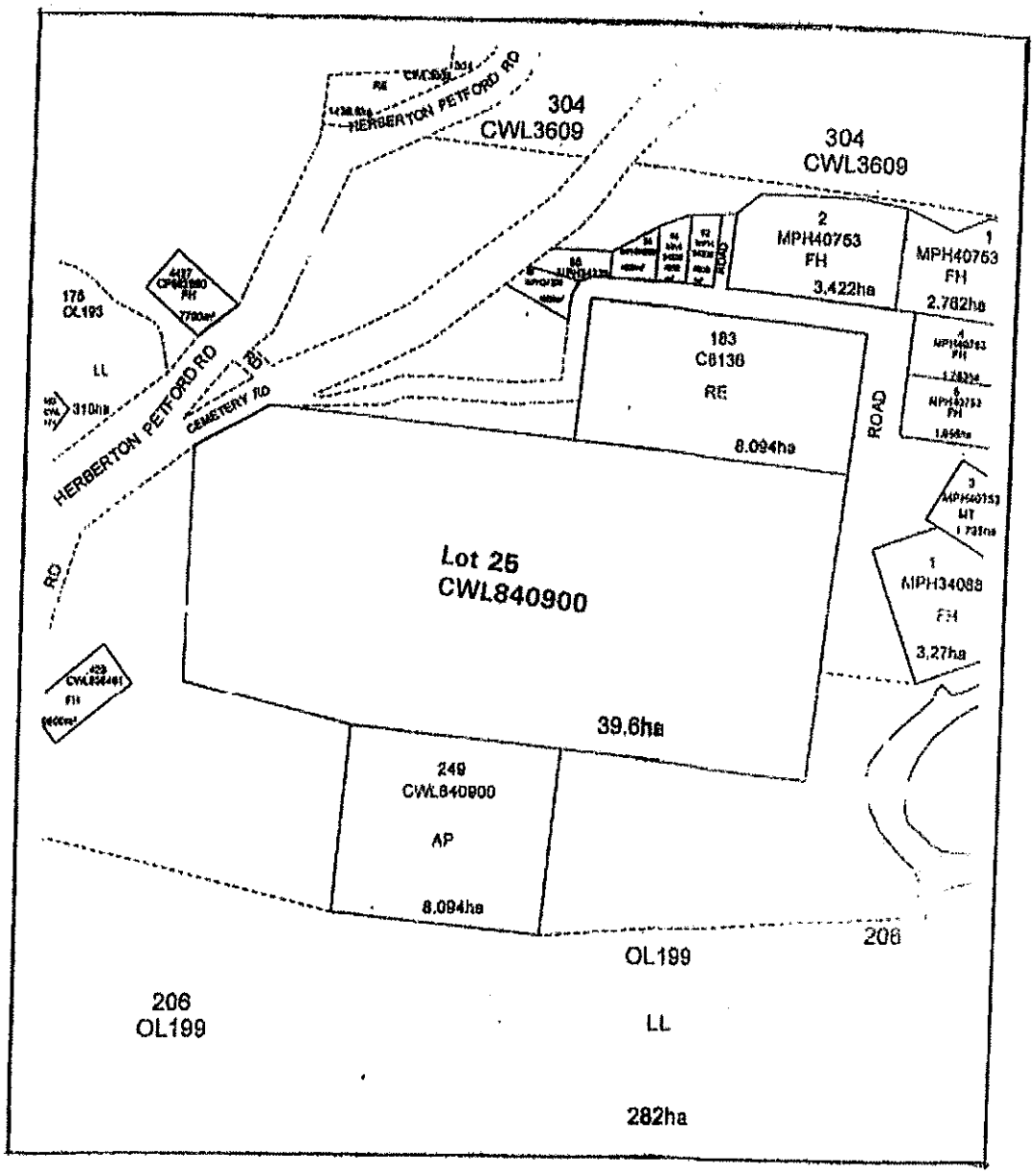
Agency interest: Noise	
Condition number	**Condition**
N19-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved. **Table 1 - Noise Limits** **Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$** — **Period** background noise level plus 5dB(A) — 7 am - 6 pm background noise level plus 5dB(A) — 6 pm - 10 pm background noise level plus 3dB(A) — 10 pm - 7 am **Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$** — **Period** background noise level plus 10dB(A) — 7 am - 6 pm background noise level plus 10dB(A) — 6 pm - 10 pm background noise level plus 8dB(A) — 10 pm - 7 am

Agency interest: Waste	
Condition number	**Condition**
W19-1	The following wastes must not be received onto the licensed place: (a) pyrophoric wastes (where co-disposed with other potentially combustible material); (b) untreated infectious wastes; (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; (d) liquescent waste streams or any waste capable of yielding free liquids; and (e) regulated wastes.
W19-2	Any stormwater run-off which may have contacted wastes must be intercepted and conveyed to the upper wastewater storage pond.
W19-3	Leachate migrating from any perimeter embankments of any waste disposal cell must be effectively intercepted by a leachate collection system installed at the licensed place.
W19-4	The holder of this environmental authority must ensure that any leachate generated by carrying out waste disposal activities on the licensed place is intercepted by a leachate collection system installed into any future active waste disposal cell and conveyed to the leachate storage tank.

W19-5	A leachate collection system must be installed into the any active waste disposal cell so as to intercept and convey the leachate storage tank leachate or contaminated stormwater generated by carrying out any waste disposal activities.
W19-6	The holder of this environmental authority must ensure that a leachate detection system is installed at the licensed place so as to detect leachate migrating beyond the perimeter embankments of any waste disposal cell.
W19-7	A leachate collection sump must be installed into the leachate detection system so as to: (a) effectively collect and store leachate migrating beyond the perimeter embankments of any cell installed at the licensed place; and (b) permit a sample of leachate to be taken from the sump for analysis in accordance with the requirements of condition number W19-12.
W19-8	The holder of this environmental authority may only dispose of leachate or contaminated stormwater intercepted and conveyed to the leachate storage tank: (a) by evaporation on the licensed place; or (b) by recirculation back into the areas of the licensed place where waste disposal is taking place; or (c) by irrigation over exposed wastes on the licensed place; or (d) to sewer in accordance with the relevant local government's Trade Waste Policy.
W19-9	Leachate must not be disposed of on the surface areas of the licensed place that have received their final cover of topsoil or on any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.
W19-10	Used wet cell batteries may only be temporarily stored on the licensed place in: (a) the area designated for this purpose; and (b) a covered enclosure which has been bunded to contain spillages and leakages.
W19-11	Waste oil may be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers: (a) are stored in the area designated for this purpose; (b) are bunded to contain spillages and leakages; (c) are securely sealed when full to prevent rainwater entry and spillage (if knocked over); and (d) have a filling mechanism which prevents rainwater entry.

W19-12	The holder of this environmental authority must carry out a leachate quality monitoring program of the leachate generated by carrying out waste disposal activities and of the wastewater stored in any storage dam or pond, in accordance with the following requirements: (a) samples of leachate must be taken from: (i) the leachate storage tank on at least annually each year; (ii) any leachate detection sump installed at the licensed place so as to detect leachate migrating beyond the boundaries of any waste disposal cell quarterly each year; and (iii) the upper wastewater storage pond quarterly each year; and (iv) the lower wastewater storage dam after any rainfall event resulting in an overflow of waste from the upper storage pond into the lower dam; and (b) samples obtained in accordance with subsection (a) of this condition must be analysed for the following parameters except where otherwise indicated: (i) pH; (ii) electrical conductivity; (iii) total dissolved solids; (iv) Chemical Oxygen Demand; (v) ammonical –N; (vi) potassium (upper wastewater storage pond only); (vii) phosphorous (upper wastewater storage pond only); (viii) sodium; (ix) calcium; (x) manganese); (xi) chloride; (xii) total iron; (xiii) bicarbonate ($HC0_3$) (xiv) lead; (xv) zinc; and (xvi) aluminium (upper wastewater storage pond only).

SCHEDULE 1 - Herberton Landfill



Part 20 - Site Specific Conditions

Environmentally relevant activity	Location
ERA 16(2a) Extracting rock or other material: 5000-100000t per year	Atherton Quarry – Lot 851 NR6413 Carrington Falls Road, CARRINGTON QLD 4883

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G20-1	Completed areas must be effectively stabilised by landscaping or revegetating in accordance with conditions L20-1 to L20-4 of this environmental authority.
Agency interest: Air	
Condition number	**Condition**
A20-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT20-1	There must be no disturbance to, filling or obstruction of any part of a watercourse.
WT20-2	Where possible, sedimentation ponds or sediment traps used for the storage or treatment of contaminated stormwater run-off, including associated pumps, must not be located in any area below the one in ten (10) year flood level.
WT20-2	All sedimentation ponds must have sufficient freeboard to ensure there is adequate storage to contain runoff from a one (1) in ten (10) year, ten (10) minute storm event.

Agency interest: Noise	
Condition number	**Condition**
N20-1	In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

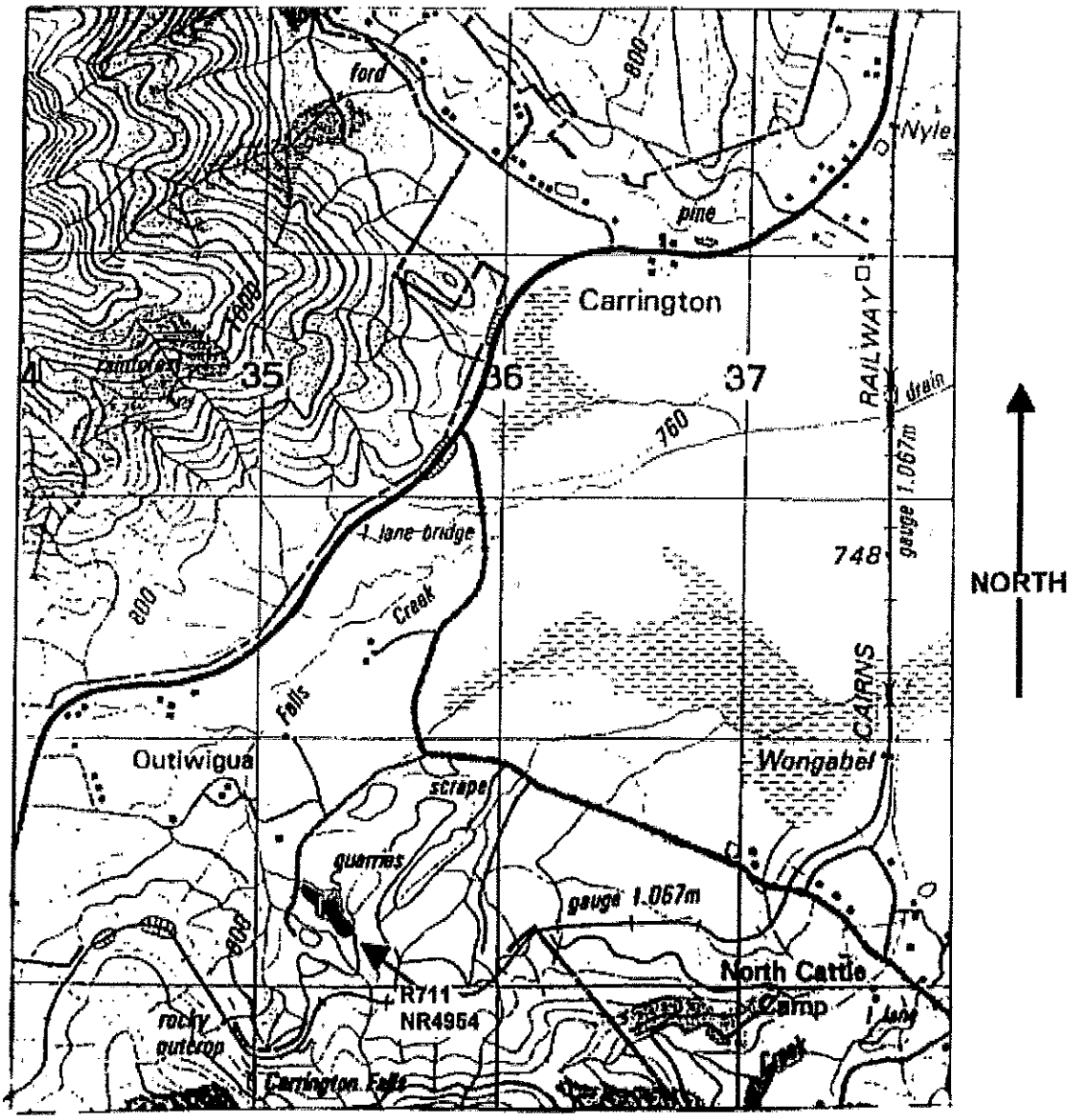
Table 1 - Noise Limits

Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$	**Period**
Background noise level plus 5dB(A)	7 am - 6 pm
Background noise level plus 5dB(A)	6 pm - 10 pm
Background noise level plus 3dB(A)	10 pm - 7 am
Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$	**Period**
Background noise level plus 10dB(A)	7 am - 6 pm
Background noise level plus 10dB(A)	6 pm - 10 pm
Background noise level plus 8dB(A)	10 pm - 7 am

Agency interest: Land	
Condition number	**Condition**
L20-1	All completed extraction areas must be reprofiled, covered with topsoil prior to commencement of the wet season and concurrently with the next stage of extraction.
L20-2	Topsoil stockpiles must be a maximum of two (2) metres high and battered down to a maximum slope of 1:3. The stockpiles must be protected to minimise erosion.
L20-3	For the life of the extractive activity, the holder of this environmental authority shall ensure that revegetated areas are monitored and maintained to have at least 50% ground cover.

Agency interest: Waste	
Condition number	**Condition**
W20-1	Waste oil must not be stored on the licensed place.

SCHEDULE 1 - Atherton Council Quarry



Part 21 - Site Specific Conditions

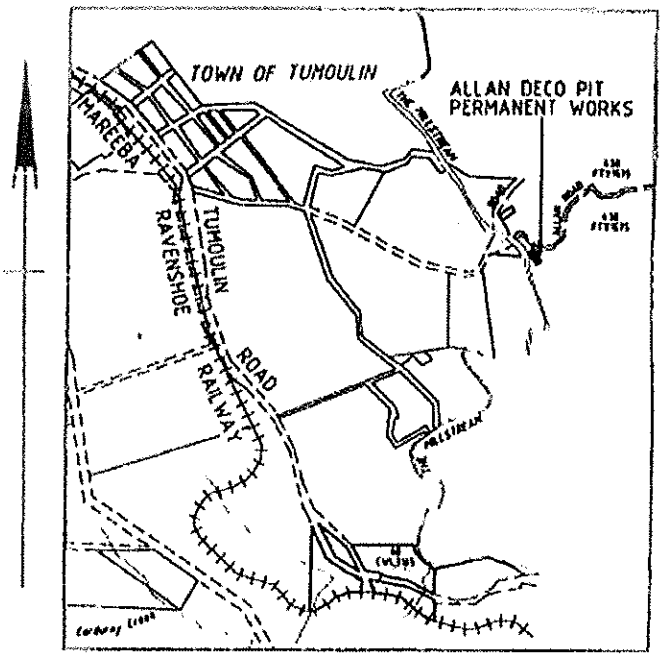
Environmentally relevant activities	Locations
ERA 16(2a) Extracting rock or other material: 5000-100000t per year ERA 16(3a) Screening rock or other material: 5000-100000t per year	Allen Deco Pit – Lot 438 on Plan FTY1917 Allen Road, RAVENSHOE QLD 4872
ERA 16(2a) Extracting rock or other material: 5000-100000t per year ERA 16(3a) Screening rock or other material: 5000-100000t per year	Allen Maintenance Pit – Lot 438 on Plan FTY1917 Allen Road, RAVENSHOE QLD 4872
ERA 16(2a) Extracting rock or other material: 5000-100000t per year ERA 16(3a) Screening rock or other material: 5000-100000t per year	Running Creek Pit – Lot 623 on Plan SP148822 Kennedy Highway, RAVENSHOE QLD 4872
ERA 16(2a) Extracting rock or other material: 5000-100000t per year ERA 16(3a) Screening rock or other material: 5000-100000t per year	Penna Pit – Lot 1 on Plan AP17369Silver Valley Road, SILVER VALLEY QLD 4872

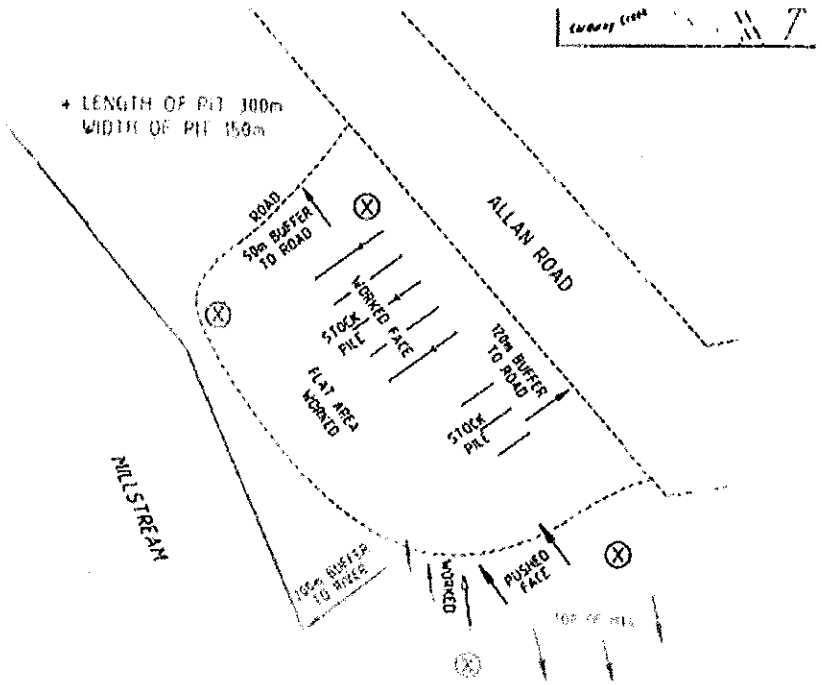
The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G21-1	Completed areas of the licensed place must be effectively stabilised by landscaping or revegetating in accordance with condition numbers L21-1 to L21-4 of this environmental authority.
Agency interest: Air	
Condition number	**Condition**
A21-1	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT21-1	There must be no disturbance to, filling or obstruction of any part of a watercourse.

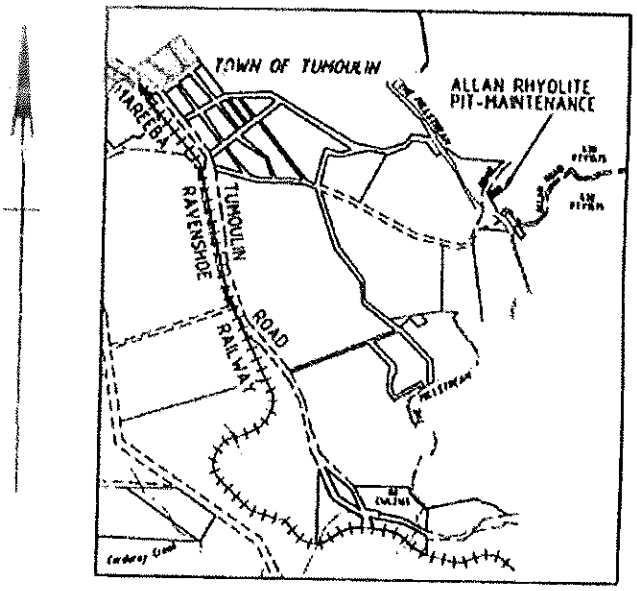
WT21-2	All sedimentation ponds must have sufficient freeboard to ensure there is adequate storage to contain runoff from a one (1) in ten (10) year, ten (10) minute storm event.
Agency interest: Land	
Condition number	**Condition**
L21-1	All completed extraction areas must be reprofiled, covered with topsoil prior to commencement of the wet season and concurrently with the next stage of extraction.
L21-2	Topsoil stockpiles must be a maximum of two (2) metres high and battered down to a maximum slope of 1:3. The stockpiles must be protected to minimise erosion.
L21-3	For the life of the extractive activity, the holder of this environmental authority shall ensure that revegetated areas are monitored and maintained to have at least 50% ground cover.
Agency interest: Waste	
Condition number	**Condition**
W21-1	Waste oil must not be stored on the licensed place.

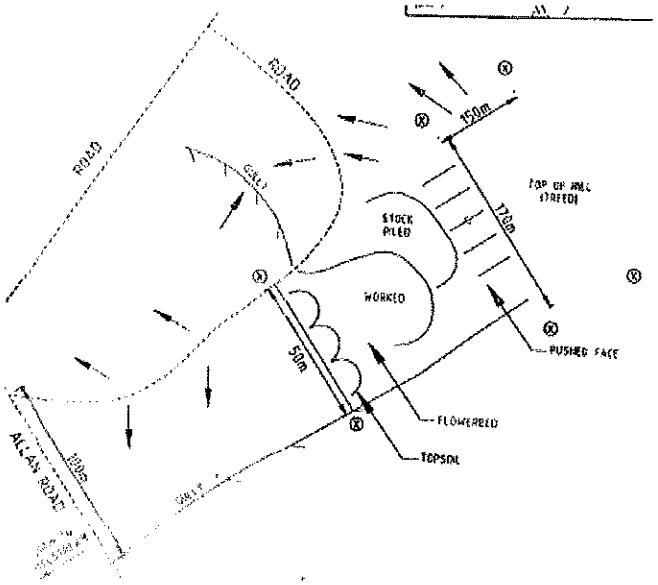
SCHEDULE 1 - Allen Deco Pit





SCHEDULE 2 - Allen Maintenance Pit





Part 22 - Site Specific Conditions

Environmentally relevant activity	Locations
ERA 57(2b) Regulated Waste Transport (other than tyres) in 6 – 35 vehicles	Mobile and Temporary activity

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G22-1	This environmental authority permits the holder of this environmental authority to transport the following regulated waste on a highway: (a) dewatered bacterial sludge.
G22-2	The holder of this environmental authority must only use the vehicles specified below to transport any regulated waste on a highway, unless otherwise approved by an environmental authority amendment: **Registration Number**: 339-DCM; **Make**: Volvo; **Capacity**: 12 tonne; **Type**: Tandem Axle; **Description**: Body truck **Registration Number**: 686-CQI; **Make**: Volvo; **Capacity**: 12 tonne; **Type**: Tandem Axle; **Description**: Body truck
G22-3	The holder of this environmental authority must hold a current insurance policy with third party property coverage for the sum of not less than $100,000 in respect to loss or damage that arises and costs of clean up or removal incurred by or on behalf of the administering authority as a result of fire, explosion, leakage or spillage of regulated waste transported under this environmental authority.
G22-4	The holder of this environmental authority must advise the administering authority of any permanent change of business address or of the place where the vehicles referred to in condition G22-2 are kept.

<table>
<tr><th colspan="2">Agency interest: Noise</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>N22-1</td><td>In the event of a complaint about noise that the administering authority considers is reasonable, then the emission of noise from the activity must not result in levels greater than those specified in Table 1 - Noise Limits until the circumstances which gave rise to the complaint are resolved.

Table 1 - Noise Limits
<table>
<tr><th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 5dB(A)</td><td>7 am - 6 pm</td></tr>
<tr><td>Background noise level plus 5dB(A)</td><td>6 pm - 10 pm</td></tr>
<tr><td>Background noise level plus 3dB(A)</td><td>10 pm - 7 am</td></tr>
<tr><th>Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,T}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 10dB(A)</td><td>7 am - 6 pm</td></tr>
<tr><td>Background noise level plus 10dB(A)</td><td>6 pm - 10 pm</td></tr>
<tr><td>Background noise level plus 8dB(A)</td><td>10 pm - 7 am</td></tr>
</table></td></tr>
</table>

Definitions

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 Heritage Protection or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as L A90,T being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

Boundary means within one metre of the cadastral boundary of the site.

Bypass means when the standard treatment processes of the plant do not occur as a result of wet weather and inflows that are in excess of the peak design capacity for inflow resulting in the release of untreated or partially treated effluent from the sewage treatment plant to the environment.

BOD5 means the 5 day biochemical oxygen demand determined using standard tests (e.g. those used by **NATA** laboratories). This test is not inhibited for nitrification, otherwise would be referred to as "carbonaceous" BOD.

Chemical for the purposes of this environmental authority means:

(a) any chemical registered under the "Australian Code for the Transport of Dangerous Goods by Road or Rail"; or

(b) any stored chemical that by nature of its quantity or concentration could, in the event of an uncontrolled release, cause environmental harm.

COD means chemical oxygen demand determined using standard tests (e.g. those used by **NATA** laboratories).

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Composite in respect of sampling means either time based taken at hourly intervals to cover the period in the twenty-four (24) hours of the sampling day during which a contaminant release occurs; or taken after set flow volumes to cover the period of the sampling day during which the contaminant release occurs.

Day means any 24 hour period.

Design Average Dry Weather Flow (DADWF) means the average dry weather flow of the treatment plant at the design horizon.

Dry weather day refers to a day during which no rain falls within the catchment of the sewage treatment plant from the commencement of measurement for that day. The term also excludes days during which measurement is made which occurs within three (3) days following cumulative rainfall of 100 mm over the three preceding days.

Environmental nuisance as defined under Chapter 1 of the *Environmental Protection Act 1994.*

Environmental value as defined under Chapter 1 of the *Environmental Protection Act 1994.*

General waste means waste other than regulated waste.

Grab sample means one sample collected at any point in time.

Groundwater monitoring system means a system of groundwater monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of groundwater in the uppermost aquifer where the location of the groundwater monitoring devices is such that comparisons of groundwater quality and groundwater level can be made between groundwater flowing from beneath the site (down-gradient flow) of the **activity** and groundwater flowing towards the site of the **activity** (up-gradient flow).

Landfill unit means a discrete area of land or an excavation that receives solid waste.

Landfill facility means land and structures at the site approved used for the disposal of solid waste.

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.

Leachate collection system means drains or grades employed to direct leachate generated on the licensed place to a leachate collection pond or dam.

Leachate recirculation means the practice of returning leachate to the upper layers of a landfill, from which it has been abstracted, usually by direct spraying or pump well injection.

Leachate storage pond means any pond, dam or sump used to store leachate generated by carrying out waste disposal activities on the licensed place.

Leachate sump/well means a sump or well from with leachate can be measured and pumped.

Liquid means any substance that:
- has an angle of repose of less than five degrees; or
- becomes free flowing at or below 60 degrees Celsius or when it is transported; or
- is not generally capable of being picked up by a spade or shovel.

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

Maximum means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

Median means the middle value, where half the data are smaller and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

Minimum means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

NATA means National Association of Testing Authorities.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

Permeability means a measure of the rate at which a fluid will pass through a medium. The coefficient of permeability of a given fluid is an expression of the rate of flow through unit area and thickness under

unit differential pressure at a given temperature. Synonymous with hydraulic conductivity when the fluid is water.

Prescribed contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

Range means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

Regulated waste means non-domestic waste included in schedule 8 of the Environmental Protection (Interim) Regulations 1995, and includes:

(a) for an element - any chemical compound containing the element;

(b) anything that has contained regulated waste; and

(c) regulated waste that has been treated or immobilised.

Release of a contaminant into the environment means to:
- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:
- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

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.

Toxic material means:
- cytotoxic wastes;
- drugs and poisons as cited in the Standards for Uniform Scheduling of Drugs and Poisons (Schedules 8 and 9 drugs as per the Poisons (Health and Drugs) Regulation 1996); and
- any other material that:
  a. has contaminant concentrations in the waste exceeding the allowable levels in Table 4; or
  b. has leaching contaminant levels in the waste when measured in accordance with toxicity characteristic

leaching procedure (TCLP), exceeding the concentrations prescribed in Table 5.
waste disposal activities means all activities relating to waste disposal and includes the shredding of waste (where applicable), stockpiling of cover material, temporary waste storage, leachate collection and disposal, litter control and cell, trench or waste disposal area construction and irrigation of wastewater.

Waste operations area means the following areas:
- waste receiving
- sorting
- treating
- recycling
- disposal.

Wet Weather Day means a day which is not a dry weather day.

You means the holder of the environmental authority.

80th percentile (long term) is the value which is exceeded by twenty (20) percent of the values for the characteristic in question and should be calculated on the basis of a log-normal distribution using twelve (12) months consecutive results for the characteristic.

80th percentile (short term) means that not more than one (1) of the measured values of the quality characteristic are to exceed the stated release limit for any five (5) consecutive samples where:

(a) the consecutive samples are taken over a five (5) week period;

(b) the consecutive samples are taken at approximately equal periods; and

(c) the time interval between the taking of each consecutive sample is not less than six (6) days.

50th percentile means that the measured values of the quality characteristic must not be greater than the release limit for any more than three (3) out of six (6) consecutive samples where the time interval between the taking of each consecutive sample is not less than three (3) days.

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

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

MaxL $_{pA,T}$ means the maximum A-weighted sound pressure level measured over a time period of not less than fifteen (15) minutes, using Fast response.

24 hour storm event with an average recurrence interval of 1 in 10 years means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 10 years. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 10 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.*

END OF PERMIT