✓CARMS QS1401

ENVIRONMENTAL PROTECTION ACT 1994

Queensland Government
Environmental Protection Agency
Queensland **Parks and Wildlife Service**

Cairns District Office
PO Box 2066, Cairns Qld 4870
Phone (07) 4046 6600 Fax (07) 4046 6606
www.env.qld.gov.au ABN: 87221158786

Licence No. FN0458

Section 93(2) *Environmental Protection Act 1994*

COPY

This licence to carry out an environmentally relevant activity is issued in accordance with section 93(2) of the Environmental Protection Act 1994.

Under the provisions of the *Environmental Protection Act 1994* this licence is issued to:

Bamaga Island Council
c/- Post Office
BAMAGA QLD 4876

in respect of carrying out the following environmentally relevant activity (ERA):

28 - Motor Vehicle Workshop

DESPATCHED
05 JUN 2001
Reg Mail No: RU849297

at the following licensed place:

Bamaga Island Council Depot
Lot 89, Plan S061
located at
Lui Street
BAMAGA QLD 4876

This licence is subject to the conditions set out in the attached schedules.

The anniversary date of this environmental authority is 05 June 2001

This licence takes effect from 05 June 2001.

R. A. Lawrence
Signed

05 June 2001
Date

Rob Lawrence
Acting District Manager
Cairns District, Northern
Delegate of Administering Authority
Environmental Protection Act 1994

Note: This licence document is not proof of the current status of the licence. The current status of the licence may be ascertained by contacting the Environmental Protection Agency.

Schedule of Conditions

The aforementioned description of the ERA for which this authority is issued is simply a statement of the activity as prescribed in the legislation at the time of issuing the authority. Where there is any conflict between the above description of the ERA for which this authority is issued and the conditions as specified in this authority as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This environmental authority consists of the following schedules of conditions relevant to various issues:

- Schedule A - General
- Schedule B - Air
- Schedule C - Water
- Schedule D - Stormwater
- Schedule E - Land
- Schedule F - Noise
- Schedule G - Waste
- Schedule H - Monitoring and reporting
- Schedule I - Definitions

SCHEDULE A - GENERAL

Compliance with Environmental Authority

(A1) The holder of this environmental authority must:

(a) maintain all plant and equipment in a proper and efficient condition; and

(b) operate such plant and equipment in a proper and efficient manner.

Note: In this condition, "plant and equipment" includes:

(i) devices/structures used to store, contain, and handle/treat/dispose of used or unused materials (Hydrocarbons and chemicals) that may contaminate the environment eg. oil/water separator, drip trays, tarpaulins, absorbent agents and cloths; and

(ii) monitoring equipment and associated alarms; and

(iii) backup systems that act in the event of failure of a primary system.

Alterations

(A2) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment substantially increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

(A3) The measurement and reporting of for any condition of this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.

Site Based Management Plan (SBMP)

(A4) Within two (2) years of the date of issue of this Environmental Authority the Bamaga Island Council must implement a Site Based Management Plan which details how the Council will manage the actual and potential environmental impacts resulting from the activities carried out at the Bamaga Island Council Motor Vehicle Workshop.

(A5) The Site-Based Management Plan must address at least the following matters:

(a) Routine operating procedures to prevent or minimise environmental harm, however occasioned or caused during normal operations;

(b) Maintenance practices and procedures;

(c) Contingency plans and emergency procedures to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm (including any necessary site rehabilitation);

(d) Monitoring of the release of contaminants into the environment including procedures, methods, record keeping and notification of results;

(e) Assessment of the environmental impact of any releases of contaminants into the environment including procedures, methods, record keeping and notification of results;

(f) Handling of environmental complaints;

(g) Keeping and production of environmental records and reports;

(h) Lines and methods of communication to be utilised for communication of procedures, plans, incidents, potential environmental problems and results, including a reporting mechanism to ensure that management is made aware of potential environmental problems and any failure of procedures adopted; and

(i) Staff training and awareness of environmental issues related to the operation of the environmentally relevant activities, including responsibilities under *the Environmental Protection Act 1994*, at the minimum;

(i) any person responsible for carrying out the environmentally relevant activity is familiar with the conditions of this environmental authority as they relate to the person's responsibilities; and

(ii) any person responsible for the operation and maintenance of plant and equipment used in carrying out the environmentally relevant activity is competent to carry out their duties.

(A6) A copy of the Site-based Management Plan and any subsequent amendment of the Site-based Management Plan must be kept at the licensed place and be available for examination by an authorised person on request.

Notification

(A7) Notify the administering authority as soon as practicable when the release of contaminants is not in accordance with the conditions of this document.

(A8) Written advice must be provided within fourteen (14) days following any event as identified in condition number (A7) of the following information:

(a) the location of the event;

(b) the time of the event;

(c) the time the holder of the environmental authority became aware of the event;

(d) the suspected cause of the event;

(e) a description of the resulting effects of the event;

(f) actions taken to mitigate any environmental harm and or environmental nuisance caused by the event; and proposed actions to prevent a recurrence of the event.

END OF CONDITIONS FOR SCHEDULE A

SCHEDULE B - AIR

(B1) Prevent the release of dust and/or particulate matter, which causes or is likely to cause a nuisance at any dust sensitive place. Nuisance includes dust that is or is likely to be offensive to a person or a nuisance in the opinion of an authorised person.

END OF CONDITIONS FOR SCHEDULE B

SCHEDULE C – WATER

Release of Contaminants to Waters

(C1) Within two (2) years of the date of issue of this Environmental Authority the Bamaga Island Council must ensure that contaminants (from the carrying out of the environmentally relevant activity) that will or may cause environmental harm, are not directly or indirectly released to any waters or bed or bank of any waters.

END OF CONDITIONS FOR SCHEDULE C

SCHEDULE D - STORMWATER

General

(D1) The cleaning of vehicles and any other equipment must be carried out in the designated vehicle wash down area and any wastewaters from this area must be treated in accordance with condition number (G1).

(D2) Any spillage of wastes, contaminants or other materials as a result of carrying out the activity, must be cleaned up as quickly as practicable. Such spillages must be cleaned up by dry methods which prevent the release of contaminants to any stormwater drainage system, roadside gutter or waters.

(D3) Within twelve (12) months from the date of issue of this environmental authority, all hydrocarbons and/or hazardous liquids likely to contaminate a water are to be placed in a suitably bunded and covered area so that any spilled material is contained within the bunded area to prevent contamination of stormwater.

(D4) The holder of this environmental authority must ensure that any stormwater captured within a bunded area is free from contaminants or wastes that may cause environmental harm prior to any release to the environment.

END OF CONDITIONS FOR SCHEDULE D

SCHEDULE E - LAND

Release of Contaminants to Land

(E1) Any engines, damaged vehicles and other vehicle parts kept at premises must be stored in such a manner to ensure hydrocarbons and other contaminants cannot contaminate the soil.

END OF CONDITIONS FOR SCHEDULE E

SCHEDULE F - Noise

(F1) The holder of this environmental authority must prevent the emission of noise, which causes or is likely to cause a nuisance at any noise affected premises. Nuisance includes noise that is or is likely to be annoying, intrusive or offensive to a person or a nuisance in the opinion of an authorised person.

(F2) The method of measurement and reporting of any noise levels must comply with the Environmental Protection Agency "*Noise Measurement Manual, For use in testing for compliance with the Environmental Protection Act 1994,* Third Edition, 1 March 2000", or more recent additions or supplements to that document as become available.

END OF CONDITIONS FOR SCHEDULE F

SCHEDULE G - WASTE

(G1) By 31 December 2002 any waste waters contaminated with sediment or hydrocarbons must be treated by passing through a sediment interceptor and/or an oil/water separator prior to discharge to absorption trenches that must be designed, constructed and maintained in accordance with AS1547:2000 On-Site Domestic Wastewater Management (or subsequent versions).

(G2) The holder of this environmental authority must ensure that all materials collected within waste water treatment units, including oil/water separators, interceptors and holding tanks are removed by a licensed regulated waste transporter as often as is necessary to ensure that the unit is operating to its optimum design efficiency, and prevent overflow of collected wastes out of the unit.

(G3) Solid/liquid wastes produced from the licensed place must be stored in an area that prevents contaminants entering a water or land.

(G4) Used oil filters must be drained of oil and then recycled, or disposed of as a regulated waste.

(G5) No waste is to be burnt, or allowed to be burnt, on site.

(G6) Records of trade waste agreements must be made available for inspection on request.

Movement of Regulated Waste

(G7) Where regulated waste is removed from the site where the licensed activity is carried out (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must monitor and record the following:

(a) the date, quantity and type of waste removed; and

(b) name of the waste transporter and/or disposal operator that removed the waste; and

(c) the intended treatment/disposal destination of the waste.

Note: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.

Records

(G8) Records kept under condition number (G7) must be maintained for a period of at least five (5) years.

Notification of Improper Disposal of Regulated Waste

(G9) If the holder of this environmental authority becomes aware that a person has removed regulated waste from the site, and disposed of the regulated waste not in accordance with Schedule G of this environmental authority, then the holder of this environmental authority must notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal within fourteen (14) days of gaining knowledge of the incident.

END OF CONDITIONS FOR SCHEDULE G

SCHEDULE H - MONITORING AND REPORTING

Complaint Recording

(H1) All complaints received by the holder of this environmental authority relating to the environmentally relevant activity must be recorded in a log book with the following details:-

(a) time, date and nature of complaint;

(b) type of communication (telephone, letter, personal etc.);

(c) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "anonymous" is to be recorded);

(d) response and investigation undertaken as a result of the complaint;

(e) name of person responsible for investigating complaint; and

(f) action taken as a result of complaint investigation and signature of responsible person.

(H2) The record of a complaint required by condition number (H1) must be maintained for a period of at least five (5) year.

END OF CONDITIONS FOR SCHEDULE H

Schedule I - Definitions

For the purposes of this environmental authority the following definitions apply:

(I1) **"administering authority"** means the Environmental Protection Agency or its successor.

(I2) **"commercial place"** means a place used as an office/business/commercial purposes.

(I3) **"dust sensitive place"** means:

(a) a dwelling, mobile home or caravan park, residential marina or other residential place;

(b) a motel, hotel or hostel;

(c) a kindergarten, school, university or other educational institution;

(d) a medical centre or hospital;

(e) a protected area;

(f) a park or gardens; or

(g) a place used as an office or for business or commercial purposes.

(h) and includes the curtilage of any such place.

(I4) **"dwelling"** means any of the following structures/vehicles principally used as a residence:

(a) a house, unit, motel, nursing home or other building or part of a building;

(b) a caravan, mobile home or other vehicle or structure on land;

(c) a water craft in a marina.

(I5) **"intrusive"** noise - means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:

(a) is clearly audible to, or can be felt by, an individual; and

(b) annoys the individual.

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

ITEM 1948235
NOR/ 107669

Our reference: 500 553

Environmental Protection Act 1994

LICENCE No. 5010000190 (Amended)

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: Bamaga Island Council
Address: Adidi Street
BAMAGA QLD 4876

in respect of carrying out the environmentally relevant activity/ies at the following place(s):

Bamaga Sewage Treatment Plant
Lot 7, SO53
Parish of Cowal, County of Somerset
located at:
off end of Sebasio Street
BAMAGA QLD 4876

– ERA 15(b) Sewage treatment - 100 equivalent persons or more but less than 1500

Bamaga Tip
Bamaga DOGIT
Parish of Cowal County of Somerset
located at:
Airport Road
BAMAGA QLD 4876

– ERA 75(a)(i) General waste disposal - 50 tonnes or more but < 2,000 tonnes/year

This environmental authority is issued subject to the conditions set out in the schedules attached to this environmental authority.

This amended licence takes effect from 22 July 1998.

signed .....
Ron Anderson
Regional Manager (Environment), FNR
Delegate of Administering Authority
Environmental Protection Act 1994

date 06 July 1998

This environmental authority consists of the following schedules:

PART 1 - GENERAL CONDITIONS APPLICABLE TO ALL LICENSED PLACES

SCHEDULE 1.A -	GENERAL CONDITIONS
SCHEDULE 1.B -	AIR
SCHEDULE 1.C -	WATER
SCHEDULE 1.D -	STORMWATER MANAGEMENT
SCHEDULE 1.E -	LAND APPLICATION
SCHEDULE 1.F -	NOISE
SCHEDULE 1.G -	WASTE MANAGEMENT
SCHEDULE 1.H -	MONITORING AND REPORTING
SCHEDULE 1.I -	DEFINITIONS
SCHEDULE 1.J -	SITE PLAN

PART 2 - BAMAGA SEWAGE TREATMENT PLANT

SCHEDULE 2.A -	GENERAL CONDITIONS
SCHEDULE 2.B -	AIR
SCHEDULE 2.C -	WATER
SCHEDULE 2.D -	STORMWATER MANAGEMENT
SCHEDULE 2.E -	LAND APPLICATION
SCHEDULE 2.F -	NOISE
SCHEDULE 2.G -	WASTE MANAGEMENT
SCHEDULE 2.H -	MONITORING AND REPORTING
SCHEDULE 2.I -	DEFINITIONS
SCHEDULE 2.J -	SITE PLAN

PART 3 - BAMAGA TIP

SCHEDULE 3.A - GENERAL CONDITIONS

SCHEDULE 3.B - AIR

SCHEDULE 3.C - WATER

SCHEDULE 3.D - STORMWATER MANAGEMENT

SCHEDULE 3.E - LAND APPLICATION

SCHEDULE 3.F - NOISE

SCHEDULE 3.G - WASTE MANAGEMENT

SCHEDULE 3.H - MONITORING AND REPORTING

SCHEDULE 3.I - DEFINITIONS

PART 1 - CONDITIONS APPLICABLE TO ALL LICENSED PLACES

SCHEDULE 1.A - GENERAL CONDITIONS

Access to Environmental Authority, Integrated Environmental Management System, Site Based Management Plans and Site Development Plans

(1.A1) A copy of this environmental authority and any associated plans must be kept in a location readily accessible to personnel carrying out the environmentally relevant activity.

Records

(1.A2) Any record or document required to be kept by a condition of this environmental authority must be kept at the council offices for a period of at least five (5) years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Alterations

(1.A3) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

Monitoring and Measurements

(1.A4) All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

Calibration

(1.A5) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

Due Regard for Comment

(1.A6) Where any plan or program is required as a condition of this environmental authority to be submitted to the administering authority for review and comment, the holder of this environmental authority must have due regard to those comments in the finalisation of that plan or program.

Integrated Environmental Management System (IEMS)

(1.A7) The holder of this environmental authority must:

(a) develop and implement an IEMS which provides for the following functions:

(i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and

(ii) staff training and awareness of environmental issues to ensure that, at the minimum:

(a) any person responsible for carrying out any of the environmentally relevant activities is familiar with the conditions of this environmental authority as they relate to the person's responsibilities; and

(b) any person responsible for the operation and maintenance of plant and equipment used in carrying out the environmentally relevant activities is competent to carry out their duties; and

(iii) the conduct of environmental and energy audits; and

(iv) waste prevention, treatment and disposal; and

(v) preparation and implementation of Site Based Management Plans for each licensed place covered by this environmental authority; and

(b) lodge with the administering authority on or before 1 September 1998 and at three (3) monthly intervals thereafter until 1 March 1999 a brief report describing the progress in developing and implementing the IEMS; and

(c) on or before 1 June 1999 lodge a detailed description of the IEMS and its documentation with the administering authority for its review and comment; and

(d) have due regard to that comment in the finalisation of the IEMS; and.

(e) on or before 1 September 1999 have completed and implemented the IEMS.

Site Based Management Plans

(1.A8) Site Based Management Plans required by this environmental authority must provide for at least the following functions:

(a) routine operating procedures to prevent or minimise environmental harm from the carrying out of the environmentally relevant activity and include procedures for the recovery, storage and proper disposal of any wastes found at the Bamaga Tip which are not allowed to be disposed of at that site; and

(b) maintenance practices and procedures to ensure that all plant, equipment and reticulation systems used in the carrying out of the environmentally relevant activities are maintained in good working order; and

(c) contingency plans and emergency procedures to deal with foreseeable risks and hazards including inspection procedures and response plans for sewage pump stations in the event of failure of any pumps, motors or the power supply to any pump station; and

(d) recording and handling of environmental complaints; and

(e) preparation and carrying out of monitoring programs to ensure compliance with the conditions of this environmental authority;

(f) monitoring of compliance with any of the requirements of any plans or programs prepared under this environmental authority; and

(g) review and amendment or improvement of operating procedures and plans or programs required under this Site Based Management Plan where deficiencies are revealed by the monitoring program required in section (f) of this condition; and

(h) any other specific requirements of the other parts of this environmental authority.

END OF CONDITIONS FOR SCHEDULE 1.A

SCHEDULE 1.B - AIR

(1.B1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.B

SCHEDULE 1.C - WATER

(1.C1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.C

SCHEDULE 1.D - STORMWATER MANAGEMENT

(1.D1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.D

SCHEDULE 1.E - LAND APPLICATION

(1.E1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.E

SCHEDULE 1.F - NOISE

Emission of Noise

(1.F1) In the event of a complaint about unreasonable noise generated on the licensed places, that the administering authority considers to be neither frivolous or vexatious, then the holder of this environmental authority must take action to ensure that the noise is no longer an unreasonable noise.

END OF CONDITIONS FOR SCHEDULE 1.F

SCHEDULE 1.G - WASTE MANAGEMENT

Off Site Movement of Regulated Wastes

(1.G1) Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must ensure that records are kept of the following:

(a) the date, quantity and type of waste removed; and

(b) name of the waste transporter that removed the waste; and

(c) the intended treatment/disposal destination of the waste.

Note: Records of documents maintained in compliance with a waste tracking system established under the Environmental Protection Act 1994 or any other law for regulated waste will be deemed to satisfy this condition.

(1.G2) Records of any trade waste agreements for discharge of wastes to sewers must be made available for inspection on request.

END OF CONDITIONS FOR SCHEDULE 1.G

SCHEDULE 1.H - MONITORING AND REPORTING

Sampling and Analysis of Waters

(1.H1) All determinations of the quality of leachate, contaminants released to waters or land must be made in accordance with methods prescribed in the Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.

Recording of Monitoring Program Results

(1.H2) The holder of this environmental authority must keep a written record of the results of all monitoring programs required under this environmental authority. This record must:

(a) record the results of all analyses, measurements and observations;

(b) record the date and time of sampling; and

(c) have all records of analyses, measurements and observations signed by a responsible officer.

Annual Monitoring Report

(1.H3) The holder of this environmental authority must submit a report to the administering authority with the annual return which shall include but not be limited to:

(a) a summary of the previous twelve (12) month's monitoring results obtained under any monitoring program(s) required under this environmental authority; and

(b) a summary of any record of quantities of discharge required to be kept under this environmental authority; and

(c) for the sewage treatment plant:

(i) the number of domestic tenements newly connected to the sewage treatment works during the previous twelve (12) months; and

(ii) the progressive total number of connections; and

(iii) a summary of any trade waste agreements entered into or amended during the year, including the nature of the industry.

Exception Reporting

(1.H4) The holder of this environmental authority must, unless a program notice in accordance with Section 101 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.

(1.H5) The written notification required by condition number (1.H4) above must include:

(a) the full analysis results; and

(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.

(1.H6) If a program notice has been submitted under Section 101 of the Act, condition numbers (1.H4) and (1.H5) will have been complied with if the required information is submitted by the date specified in a Section 103 notice requiring submission of a draft Environmental Management Program.

END OF CONDITIONS FOR SCHEDULE 1.H

SCHEDULE 1.I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

(1.I1) "administering authority" means the Department of Environment or its successor.

(1.I2) "total nitrogen" means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen

(1.I3) "mg/l" means milligrams per litre.

(1.I4) "annual average" is the arithmetic average calculated using twelve (12) months consecutive results for the characteristic.

(1.I5) "quarterly" means in the first week of each of March, June, September and December.

(1.I6) "grab" sample means one sample collected at any point in time.

(1.I7) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

(1.I8) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

(1.I9) "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.

(1.I10) "aquifer" means a subsurface zone or formation of rock which contains exploitable resources of groundwater.

(1.I11) "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 and is synonymous with hydraulic conductivity when the fluid is water.

(1.I12) "leachate" means contaminated water which has been generated in or percolated through or drained from wastes.

(1.I13) "compaction" means increasing the density of solid waste in landfills by the repeated passage of heavy machinery over its surface.

(1.I14) "cover" means material used to cover wastes deposited in landfills or sanitary depots.

(1.I15) "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.

(1.I16) "capping" means the covering of a landfill or sanitary depot trench with impervious material to inhibit penetration by liquids.

(1.I17) "future waste disposal area" means any waste disposal area constructed after this environmental authority takes effect.

(1.I18) "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 disposal area construction.

(1.I19) "licensed places" means all the licensed places listed individually in the other parts of this environmental authority.

(1.I20) "the holder of this environmental authority" means Bamaga Island Council.

END OF CONDITIONS FOR SCHEDULE 1.I

SCHEDULE 1.J - SITE PLAN

(1.J1) **Location of Licensed Places**

END OF CONDITIONS FOR SCHEDULE 1.J

PART 2 - BAMAGA SEWAGE TREATMENT PLANT

SCHEDULE 2.A - GENERAL CONDITIONS

(2.A1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.A

SCHEDULE 2.B - AIR

(2.B1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.B

SCHEDULE 2.C - WATER

(2.C1) Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the licensed place to any waters at any location other than overflows from sewage pump stations in accordance with the requirements of this environmental authority.

Pump Stations

(2.C2) The only overflow points permitted to release contaminants to any waters are those listed below:

OVERFLOW POINTS	LOCATION	DISCHARGE TO
Pump Station 1	Adidi Street	Mosby Creek
Manhole ¼	Adidi Street	Nona Creek

Sewage Pump Station Alarms and Standby Pump Systems

(2.C3) Sewage pump stations whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power if such power failure occurs and, when in operation, must notify the appropriate person to respond to the alarm.

END OF CONDITIONS FOR SCHEDULE 2.C

SCHEDULE 2.D - STORMWATER MANAGEMENT

(2.D1) The licensed place must be operated in such a way that contamination of stormwater is avoided or minimised by:

(a) diversion of upstream runoff away from areas containing wastes or contaminants including the sewage treatment lagoons; and

(b) maintenance of any diversion drains around treatment lagoons to minimise any undermining or erosion of embankments; and

(c) minimisation of the size of contaminated areas; and

(d) if soil is to be exposed or disturbed as a result of any works associated with the licensed place:

(i) minimisation of the amount of soil to be exposed or disturbed by staging works; and

(ii) revegetation or stabilisation of exposed or disturbed areas; and

(iii) installation of sediment control measures such as silt fences and settling basins; and

(iv) diversion of upstream runoff from exposed or disturbed areas.

END OF CONDITIONS FOR SCHEDULE 2.D

SCHEDULE 2.E - LAND APPLICATION

Irrigation of Treated Sewage Effluent to Land

(2.E1) The holder of this environmental authority must not discharge any treated sewage effluent to land under their control unless the discharge of treated sewage effluent to that area of land is permitted under this environmental authority.

Contaminant Release Location

(2.E2) Effluent from the sewage treatment plant may only be discharged to land on the defined treated sewage effluent irrigation area.

(2.E3) The defined treated sewage effluent irrigation area is described as the hatched area marked on the site plan as shown in condition number (2.J1) of this environmental authority.

(2.E4) A minimum of ten (10) hectares of land must be provided for the treated sewage effluent irrigation area.

Identification of Pipelines and Fittings

(2.E5) Pipelines and fittings for the land disposal of treated sewage effluent must be clearly identified. Wherever possible, standard water taps, hoses and cocks should not be fitted to effluent irrigation system pipelines, and lockable valves or removable handles should be fitted to the effluent irrigation pipelines where there is public access to the contaminants release areas. The irrigation system must not be connected to other service pipelines.

Control of Release of Contaminants to Land

(2.E6) The irrigation of treated sewage effluent to land under this environmental authority must be carried out in a manner so as to ensure that:

(a) vegetation is not damaged;

(b) soil erosion and soil structure damage is minimised;

(c) there is no surface ponding of effluent;

(d) the effluent is evenly distributed on the irrigation area;

(e) there is no spray drift or overspray or contaminated runoff outside the effluent irrigation area approved under this schedule;

(f) the infiltration of effluent beyond the plant root zone is minimised; and

(g) each portion of the irrigation area is irrigated at an application rate and frequency that optimises plant growth.

(2.E7) The holder of this environmental authority must ensure that access of grazing animals to the treated sewage effluent irrigation area is controlled to prevent soil pugging.

(2.E8) Notices must be prominently displayed on the treated sewage effluent irrigation area on the licensed place warning the public that the area is irrigated with treated sewage effluent and not to use or drink the wastewater. These notices must be maintained in a visible and legible condition.

Sampling Point

(2.E9) The holder of this environmental authority must provide and maintain a sampling point for the treated sewage effluent at the point of discharge from the sewage treatment plant to the irrigation system. This sampling point must be maintained so as to be readily accessible to authorised officers at any reasonable time.

Quality of Contaminants Released to Land

(2.E10) The release of contaminants to land must comply with the quality characteristics specified in Schedule 2.E - Table 1.

Schedule 2.E - Table 1

QUALITY CHARACTERISTIC	RELEASE LIMIT(S)	LIMIT TYPE
5-Day Biochemical Oxygen Demand (mg/l)	20 60	annual average maximum
Suspended Solids (mg/l)	60 180	annual average maximum
pH (pH units)	6.5 to 8.5	range
Specific Conductance (µS/cm)	1000	maximum

Investigation and Design of Treated Sewage Effluent Irrigation Areas

(2.E11) Any extension of the area used for irrigation of treated sewage effluent to land (other than for maintenance of any grounds and gardens around the sewage treatment plant generating the effluent) 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.

Effluent Storage Lagoon

(2.E12) Treated sewage effluent must, when irrigation cannot be carried out in accordance with the requirements of this Schedule, be stored in an effluent storage lagoon designed and constructed:

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

(b) to have a total holding capacity of fourteen (14) megalitres; and

(c) with a (0.3) metre earthen liner which is made of the best available material which has been spread, rolled and compacted so as to effectively prevent or minimise the release of effluent through the base and embankments.

(2.E13) The effluent storage lagoon must be designed and operated to have a total excess capacity of at least 2,000 cubic metres (2 megalitres) at all times, except in the period after wet weather when it has been filled to capacity and before the excess effluent can be disposed of by irrigation.

Note: Prior to the onset of the wet season, the lagoon should have as much capacity as possible (while maintaining the integrity of the base - need to ensure the base does not dry out and crack). As soon as conditions permit after rainfall, the effluent in the lagoon should be pumped and disposed of on the irrigation area to ensure the lagoon is capable of storing effluent during the next wet weather period.

END OF CONDITIONS FOR SCHEDULE 2.E

SCHEDULE 2.F - NOISE

(2.F1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.F

SCHEDULE 2.G - WASTE MANAGEMENT

Acceptance of Regulated Wastes

(2.G1) The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place when such wastes are commingled with normal domestic sewage or in accordance with a trade waste policy.

(2.G2) Records of any trade waste agreements for discharge of wastes to sewers must be made available for inspection on request.

Sludge Management Plan

(2.G3) The holder of this environmental authority must, by 31 January 1999, prepare a waste management plan for the storage, treatment, transport and reuse or disposal of any sludge removed from the sewage treatment ponds. This plan must deal with sludge in a manner that minimises the risk of spillage of sludge or any other release of contaminants to the environment.

Infiltration Management

(2.G4) The holder of this environmental authority must maintain the sewage reticulation system in such a manner that infiltration and other stormwater inflows are minimised.

END OF CONDITIONS FOR SCHEDULE 2.G

SCHEDULE 2.H - MONITORING AND REPORTING

Monitoring of Contaminant Releases to Land

(2.H1) 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 land for the quality characteristics, and at the frequency specified in Schedule 2.H - Table 1.

Sampling and Monitoring Point Details

(2.H2) Determinations of the quality of contaminants released to land to check conformity with the release quality characteristics specified in the Land Application Schedule of this environmental authority must be undertaken at least quarterly on samples collected from the sampling and in situ monitoring point referred to in condition number (2.E9) of this environmental authority.

Schedule 2.H - Table 1

QUALITY CHARACTERISTIC DETERMINATION
5-day Biochemical Oxygen Demand
Suspended Solids
pH
Specific Conductance

Irrigation Area Soil Monitoring

(2.H3) The holder of this environmental authority must monitor the soil condition of the effluent irrigation area by measurement of the following soil physical and chemical properties at a minimum frequency of five (5) years with the first samples being taken before September 1 1998:

(a) pH (Ca and H_2O) (determined from a 1:5 soil to water suspension); and

(b) electrical conductivity (determined from a 1:5 soil to water suspension); and

(c) chloride (as % Na Cl); and

(d) available potassium; and

(e) phosphorus sorptive capacity; and

(f) available phosphorus; and

(g) total nitrogen; and

(h) organic carbon;

and the following field tests;

(i) infiltration rate; and

(j) subsoil hydraulic conductivity; and

(k) soil texture, structure, colour, moisture; and

(l) available water capacity.

Note: Soil analysis should be carried out on composite topsoil samples taken from at least 5 "average" spots per ten (10) hectares and separately for any major area of poorer topsoil. The soil sampling sites should be chosen to enable them to be used as permanent reference points for long term soil monitoring.

END OF CONDITIONS FOR SCHEDULE 2.H

SCHEDULE 2.I - DEFINITIONS

(2.I1) "licensed place" means the Bamaga Sewage Treatment Plant on Lot 7, SO53, Parish of Cowal, County of Somerset located off the end of Sebasio Street, Bamaga Qld 4876 and includes any pump stations, reticulation systems and other ancillary works associated with the plant.

END OF CONDITIONS FOR SCHEDULE 2.I

SCHEDULE 2.J - SITE PLAN

(2.J1) **Bamaga Sewage Treatment Plant and Treated Sewage Effluent Irrigation Area**

END OF CONDITIONS FOR SCHEDULE 2.J

PART 3 - BAMAGA TIP

SCHEDULE 3.A - GENERAL CONDITIONS

Site Development Plan

(3.A1) The holder of this environmental authority must prepare and submit to the administering authority Site Development Plans for the Bamaga Waste Disposal Facility to cover each five (5) year period from the date this environmental authority is issued or until a Post Closure Care Plan has been implemented. Each Site Development Plan must be finalised and submitted at least three (3) months before the expiry of the previous plan and must include details of at least the following:

(a) the location and accurate dimensions of any designated areas to be used for the disposal and storage of waste at the licensed place over the period covered by the Site Development Plan; and

(b) any area of the licensed place where precautions are taken in respect of disposal of a particular waste must be marked on the Site Development Plan as soon as practicable after the waste has been disposed of. The following information also needs to be recorded in respect of that waste:

(i) a description of the waste; and

(ii) the accurate location and depth and dimensions of the area in which this waste was disposed; and

(iii) date the waste was deposited; and

(c) where applicable, accurate location of any leachate storage tank, dam or pond, pump well, collection and disposal system installed on the licensed place; and

(d) location of any stormwater drains or diversion embankments to be constructed to achieve compliance with this environmental authority; and

(e) location of any area to be capped, the proposed final surface levels and contours, and the final drainage system as part of a rehabilitation program for the licensed place over the period covered by this Site Development Plan.

Waste Acceptance Criteria

(3.A2) This environmental authority permits only the following wastes to be received for disposal 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) domestic garbage;

(e) limited regulated waste as defined in the Environmental Protection Regulation 1998;

(f) green wastes.

Note:

(i) drums containing any residual regulated wastes are themselves a regulated waste and must not be received for disposal at the licensed place unless they have been steam cleaned, triple rinsed or thoroughly cleaned.

(ii) car bodies and recyclable solid inert wastes may be stored on the licensed place.

Wastes Prohibited for Disposal

(3.A3) Notwithstanding condition number (3.A2), the following wastes must not be disposed of on the licensed place:

(a) pyrophoric wastes (where co-disposed with other potentially combustible material); or

(b) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; or

(c) untreated infectious wastes; or

(d) liquescent waste streams or any waste capable of yielding free liquids; or

(e) regulated wastes other than those permitted under condition number (3.A2).

Supervision

(3.A4) The holder of this environmental authority must ensure that the licensed place is inspected as often as is necessary so as to ensure compliance with this environmental authority, but in any case not less frequently than once per week.

END OF CONDITIONS FOR SCHEDULE 3.A

SCHEDULE 3.B - AIR

Odour Generation

(3.B1) In the event of a complaint made to the administering authority (which is neither frivolous or vexatious) about odour generated on the licensed place, and the odour is considered by the administering authority to be an unreasonable release, the holder of this environmental authority must take action to mitigate the odour to ensure that it is no longer an unreasonable release.

Dust Generation

(3.B2) In the event of a complaint made to the administering authority (which is neither frivolous or vexatious) about dust generated on the licensed place, and the release of dust is considered by the administering authority to be unreasonable, the holder of this environmental authority must take action to mitigate the release of dust to ensure that it is no longer unreasonable.

Dust Control

(3.B3) Any stockpiles of inert cover material must be managed so as to minimise wind blown dust emissions.

(3.B4) The holder of this environmental authority must ensure that all wastes accepted onto the licensed place are handled, disposed of or stockpiled in such a way as to minimise dust generation.

END OF CONDITIONS FOR SCHEDULE 3.B

SCHEDULE 3.C - WATER

(3.C1) The holder of this environmental authority must not either directly or indirectly release any leachate generated on the licensed place to any land beyond the boundary of the licensed place or to any stormwater drain or waters.

END OF CONDITIONS FOR SCHEDULE 3.C

SCHEDULE 3.D - STORMWATER MANAGEMENT

Stormwater Diversion

(3.D1) 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 waste disposal area;

(b) any waste storage areas;

(c) any area previously used for waste disposal; and

(d) any leachate collection ponds (if applicable).

END OF CONDITIONS FOR SCHEDULE 3.D

SCHEDULE 3.E - LAND APPLICATION

(3.E1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 3.E

SCHEDULE 3.F - NOISE

(3.F1) Nil conditions.

END OF CONDITIONS OF SCHEDULE 3.F

SCHEDULE 3.G - WASTE MANAGEMENT

General

(3.G1) 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 this 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.

Compliance with Site Development Plan

(3.G2) The holder of this environmental authority must ensure waste disposal activities are carried out in accordance with the Site Development Plan required under condition number (3.A1) of this environmental authority.

Soil Permeability

(3.G3) Any future waste disposal area, leachate storage pond and above ground embankment on the licensed place must be constructed to a standard which effectively minimises the release of leachate through the base and embankments.

Removal of Cover Material

(3.G4) Where waste is to be disposed of above an area previously used for waste disposal, existing cover material must be ripped or removed so as to allow leachate and contaminated stormwater to percolate through the wastes deposited below.

Access to Active Waste Disposal Area

(3.G5) The holder of this environmental authority must ensure any waste disposal area constructed on the licensed place is constructed with ramps, where necessary, to allow plant and machinery access to the active waste disposal area, so that wastes can be effectively consolidated, compacted and covered.

Construction of Embankments

(3.G6) The perimeter embankments of any disposal area or leachate storage pond installed on the licensed place must be maintained so as to ensure the stability and integrity of their construction.

Leachate Management

(3.G7) The holder of this environmental authority must ensure that all reasonable and practical measures are taken to ensure all active waste disposal areas are operated and managed so as to minimise the generation of leachate.

Leachate Disposal

(3.G8) 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.

(3.G9) Leachate must not be disposed of on any area of the licensed place that has received its 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.

Active Waste Disposal Area Management

(3.G10) The holder of this environmental authority must ensure that waste disposal activities do not extend beyond the boundary of the licensed place.

(3.G11) The holder of this environmental authority must take effective measures to ensure that all wastes received for disposal at the licensed place are not disposed of:

(a) beyond any active waste disposal area; or

(b) into waters or leachate collected at the base of any active waste disposal area; and

(c) beyond the catchment of any leachate collection drains installed as part of a leachate collection system.

(3.G12) All large metal articles received for disposal must be effectively compacted before being deposited at the base of any active waste disposal trench.

Availability of Cover Material

(3.G13) The holder of this environmental authority must ensure that a stockpile of cover material in sufficient quantities to cover waste disposed on the licensed place over any one (1) month period is readily accessible at all times.

Covering of Wastes

(3.G14) Wastes deposited in any active waste disposal area must be effectively consolidated, compacted and covered with a layer of inert earthen material or other non-combustible, inert material to prevent exposure of covered wastes as often as is necessary to:

(a) prevent the access of flies, rodents, or other animals to covered wastes; and

(b) minimise the propagation of odours from deposited wastes; and

(c) minimise the generation of windblown litter; and

(d) reduce the risk of fire; and

(e) ensure compliance with the conditions of this environmental authority, but in any case not less frequently than once per week.

Mechanical Plant

(3.G15) Mechanical plant capable of ensuring compliance with this environmental authority must be used to carry out any consolidation, compaction and covering of wastes deposited in any active waste disposal area.

Tyre Storage

(3.G16) 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 (1) heap.

(3.G17) Where there is more than one heap of waste tyres, a separation distance between the heaps or other methods must be established and maintained so as to effectively prevent fire from spreading:

(a) from one (1) tyre storage heap to another; and

(b) to other waste stored or disposed of at the licensed place.

Access Roads

(3.G18) The holder of this environmental authority must ensure all weather access roads are constructed and maintained so that at all times whilst the licensed place is open for receiving wastes, vehicles have access to any active waste disposal area.

Signs

(3.G19) The holder of this environmental authority must cause signs, maintained in good repair, to be erected at the entrance to the licensed place and/or in prominent locations on the licensed place. Such signs must give the following information at a minimum:

(a) the wastes permitted to be received at the licensed place; and

(b) prohibition of the lighting of unauthorised fires on the licensed place; and

(c) directing traffic to the location of the active disposal area.

Fencing

(3.G20) Fences and barriers must be erected and maintained at the licensed place so as to prevent stock access to any active waste disposal area.

Litter Control

(3.G21) Where necessary, relocatable litter screens or other methods of litter control must be provided at the active disposal area in order to effectively capture paper or other wind blown litter generated by waste disposal activities on the licensed place.

(3.G22) The holder of this environmental authority must ensure litter is collected so as to ensure that the licensed place, all fences, litter screens and the surrounds of the licensed place are kept in a tidy condition.

Public Health Issues

(3.G23) The holder of this environmental authority must make provision to ensure that the operation of the Bamaga Waste Disposal Facility does not create a public health problem. The holder of the environmental authority must carry out any works required by the administering authority to prevent or abate any public health problem or nuisance which may arise as a result of the operation of the licensed place.

(3.G24) The holder of the environmental authority must take all practical measures to ensure that the environmentally relevant activity is conducted at all times in a nuisance free manner, particularly regarding fly breeding, mosquito breeding and rat harbourage and breeding.

Fire Control

(3.G25) The holder of this environmental authority must ensure a fire break is maintained around any active waste disposal area so as to prevent the spread of fire to adjoining land.

(3.G26) In the event of any fire occurring at the licensed place the holder of this environmental authority must extinguish the fire, as soon as it is safe to do so.

Final Cover

(3.G27) Any completed waste disposal area must be capped with low permeability material and compacted so as to effectively minimise infiltration of stormwater.

(3.G28) Any completed and capped waste disposal area must be progressively covered with clean earth to a depth of at least 250 millimetres capable of supporting shallow rooted vegetation. A thicker top soil layer may be necessary to support deeper rooted vegetation and also to prevent root penetration of the cap.

(3.G29) The final surface of any completed disposal area of the licensed place must, after covering as specified in condition number (3.G28) be graded, drained and vegetated so as to:

(a) minimise erosion; and

(b) divert clean stormwater away from the completed disposal area; and

(c) prevent ponding of stormwater.

(3.G30) In the areas awaiting rehabilitation or those in the process of being rehabilitated, vehicle access must be restricted by suitable barriers to prevent surface disturbance.

Closure and Post Closure Care Plan

(3.G31) The holder of this environmental authority must develop a Closure and Post Closure Care Plan for the licensed place which extends for at least thirty (30) years after cessation of waste disposal activities and continues in effect until it can be demonstrated to the administering authority that the site will not release contaminants to the environment.

(3.G32) The Closure and Post Closure Care Plan must include, but not necessarily be limited to the following:

(a) the continuation of a monitoring program if required under this environmental authority; and

(b) maintenance of the integrity and effectiveness of any low permeability final cover material; and

(c) maintenance of appropriate stormwater diversion systems; and

(d) maintenance of vegetation planted on the completed capped and drained disposal areas.

(3.G33) At least six (6) months before the cessation of waste disposal activities at the licensed place the holder of this environmental authority must submit the Closure and Post Care Plan to the administering authority for review and comment.

END OF CONDITIONS FOR SCHEDULE 3.G

SCHEDULE 3.H - MONITORING AND REPORTING

(3.H1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 3.H

SCHEDULE 3.I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

(3.I1) "licensed place" in this part of this environmental authority means the Bamaga Tip, on Bamaga DOGIT, Parish of Cowal, County of Somerset and located at Airport Road, Bamaga Qld 4876 at the location shown in the site plan attached as condition number (1.J1).

(3.I2) "active waste disposal area " means an area or trench currently being used for the disposal of wastes accepted under a condition of this environmental authority and includes all or part of a disposal trench.

END OF CONDITIONS FOR SCHEDULE 3.I

END OF ENVIRONMENTAL AUTHORITY

500 459

CNS2580

n2180163

Our reference: 500 459

Environmental Protection Act 1994

LICENCE NO. 5010000230 (Amended)

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

DESPATCHED
01 OCT 1998
RL 1367385

To: New Mapoon Aboriginal Council
Address: Council Office
Brown Street
NEW MAPOON QLD 4871

in respect of carrying out the environmentally relevant activity/ies at the following place(s):

New Mapoon Sewage Treatment Plant
Lot 30, SO55
Parish of Cowal, County of Somerset
located at:
Bamaga - Seisia Road,
NEW MAPOON QLD 4876

- ERA 15(b) Sewage treatment - 100 equivalent persons or more but less than 1,500

New Mapoon Refuse Tip
Lot 30, SO55
Parish of Cowal, County of Somerset
located at:
End of Langie Street,
NEW MAPOON QLD 4876

- ERA 75(a)(i) Waste disposal (general or limited regulated wastes) - > 50 tonnes but not more than 2,000 tonnes/year

This environmental authority is issued subject to the conditions set out in the schedules attached to this environmental authority.

This amended licence takes effect from 04 November 1998.

signed .....
Ron Anderson
Regional Manager (Environment), FNR
Delegate of Administering Authority
Environmental Protection Act 1994

date 29 September 1998

Our reference: 500 459

Environmental Protection Act 1994

LICENCE No. 5010000230

n2180163

COPY

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: New Mapoon Aboriginal Council
Address: Council Office
Brown Street
NEW MAPOON QLD 4871

Tenure 1170
Mpont

in respect of carrying out the environmentally relevant activity/ies at the following place(s):

DESPATCHED
02 FEB 1998
RL 11181708
Mpont

New Mapoon Sewage Treatment Plant
Lot 30, SO55
Parish of Cowal, County of Somerset
located at:
Bamaga - Seisia Road,
NEW MAPOON QLD 4876

- ERA 14(b) Sewage treatment - 100 equivalent persons or more but less than 1,500

New Mapoon Refuse Tip
Lot 30, SO55
Parish of Cowal, County of Somerset
located at:
End of Langie Street,
NEW MAPOON QLD 4876

- ERA 74(a) General waste disposal - > 1 tonne but not more than 2,000 tonnes/year

This environmental authority is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 16 February 1998.

signed .....
Ron Anderson
Acting Regional Manager (Environment), FNR
Delegate of Administering Authority
Environmental Protection Act 1994

date 30 January 1998

Section 45(1)

This environmental authority consists of the following schedules:

PART 1 - GENERAL CONDITIONS APPLICABLE TO ALL LICENSED PLACES

SCHEDULE 1.A - GENERAL CONDITIONS

SCHEDULE 1.B - AIR

SCHEDULE 1.C - WATER

SCHEDULE 1.D - STORMWATER MANAGEMENT

SCHEDULE 1.E - LAND APPLICATION

SCHEDULE 1.F - NOISE

SCHEDULE 1.G - WASTE MANAGEMENT

SCHEDULE 1.H - MONITORING AND REPORTING

SCHEDULE 1.I - DEFINITIONS

PART 2 - NEW MAPOON SEWAGE TREATMENT PLANT

SCHEDULE 2.A - GENERAL CONDITIONS

SCHEDULE 2.B - AIR

SCHEDULE 2.C - WATER

SCHEDULE 2.D - STORMWATER MANAGEMENT

SCHEDULE 2.E - LAND APPLICATION

SCHEDULE 2.F - NOISE

SCHEDULE 2.G - WASTE MANAGEMENT

SCHEDULE 2.H - MONITORING AND REPORTING

SCHEDULE 2.I - DEFINITIONS

PART 3 - NEW MAPOON REFUSE TIP

SCHEDULE 3.A - GENERAL CONDITIONS

SCHEDULE 3.B - AIR

SCHEDULE 3.C - WATER

SCHEDULE 3.D - STORMWATER MANAGEMENT

SCHEDULE 3.E - LAND APPLICATION

SCHEDULE 3.F - NOISE

SCHEDULE 3.G - WASTE MANAGEMENT

SCHEDULE 3.H - MONITORING AND REPORTING

SCHEDULE 3.I - DEFINITIONS

PART 1 - CONDITIONS APPLICABLE TO ALL LICENSED PLACES

SCHEDULE 1.A - GENERAL CONDITIONS

Access to Environmental Authority, Integrated Environmental Management System, Site Based Management Plans and Site Development Plans

(1.A1) A copy of this environmental authority and any associated plans must be kept in a location readily accessible to personnel carrying out the environmentally relevant activity.

Records

(1.A2) Any record or document required to be kept by a condition of this environmental authority must be kept at the council offices for a period of at least five (5) years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Alterations

(1.A3) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

Monitoring and Measurements

(1.A4) All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

Calibration

(1.A5) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

Due Regard for Comment

(1.A6) Where any plan or program is required, as a condition of this environmental authority, to be submitted to the administering authority for review and comment, the holder of this environmental authority must have due regard to those comments in the finalisation of that plan or program.

Integrated Environmental Management System (IEMS)

(1.A7) The holder of this environmental authority must:

(a) develop and implement an IEMS which provides for the following functions:

(i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and

(ii) staff training and awareness of environmental issues to ensure that, at the minimum:

(1) any person responsible for carrying out any of the environmentally relevant activities is familiar with the conditions of this environmental authority as they relate to the person's responsibilities; and

(2) any person responsible for the operation and maintenance of plant and equipment used in carrying out the environmentally relevant activities is competent to carry out their duties; and

(iii) the conduct of environmental and energy audits; and

(iv) waste prevention, treatment and disposal; and

(v) preparation and implementation of Site Based Management Plans for each licensed place covered by this environmental authority; and

(b) lodge with the administering authority on or before 31 March 1998 and at three (3) monthly intervals thereafter until 30 September 1998, a brief report describing the progress in developing and implementing the IEMS; and

(c) on or before 31 December 1998 lodge a detailed description of the IEMS and its documentation with the administering authority for its review and comment; and

(d) have due regard to that comment in the finalisation of the IEMS; and

(e) on or before 31 March 1999 have completed and implemented the IEMS.

Site Based Management Plans

(1.A8) Site Based Management Plans required by this environmental authority must provide for at least the following functions:

(a) routine operating procedures to prevent or minimise environmental harm from the carrying out of the environmentally relevant activities and include procedures for the recovery, storage and proper disposal of any wastes found at the New Mapoon Refuse Tip which are not allowed to be disposed of at that site;

(b) maintenance practices and procedures to ensure that all plant, equipment and reticulation systems used in the carrying out of the environmentally relevant activities are maintained in good working order; and

(c) contingency plans and emergency procedures to deal with foreseeable risks and hazards including inspection procedures and response plans for sewage pump stations in the event of failure of the power supply to any pump station; and

(d) recording and handling of environmental complaints; and

(e) preparation and carrying out of monitoring programs to ensure compliance with the conditions of this environmental authority.

(f) monitoring of compliance with any of the requirements of:

(i) the conditions of this environmental authority; or

(ii) any plans or programs prepared under this environmental authority; and

(g) review and amendment or improvement of operating procedures and plans or programs required under Site Based Management Plans where deficiencies are revealed by the monitoring program required in section (f) of this condition; and

(h) any other specific requirements of the other parts of this environmental authority.

END OF CONDITIONS FOR SCHEDULE 1.A

SCHEDULE 1.B - AIR

(1.B1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.B

SCHEDULE 1.C - WATER

(1.C1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.C

SCHEDULE 1.D - STORMWATER MANAGEMENT

(1.D1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.D

SCHEDULE 1.E - LAND APPLICATION

(1.E1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.E

SCHEDULE 1.F - NOISE

Emission of Noise

(1.F1) In the event the holder of this environmental authority or the administering authority receives a complaint about noise generated on any of the licensed places covered by this environmental authority which it considers reasonable, measures must be taken to minimise the release of the noise emission beyond the boundaries of the licensed place until the circumstances which gave rise to the complaint are resolved.

END OF CONDITIONS FOR SCHEDULE 1.F

SCHEDULE 1.G - WASTE MANAGEMENT

General

(1.G1) 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 this 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.

Off Site Movement of Regulated Wastes

(1.G2) Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must ensure that records are kept of the following:

(a) the date, quantity and type of waste removed; and

(b) name of the waste transporter that removed the waste; and

(c) the intended treatment/disposal destination of the waste.

(1.G3) Records of any trade waste agreements for discharge of wastes to sewers must be made available for inspection on request.

END OF CONDITIONS FOR SCHEDULE 1.G

SCHEDULE 1.H - MONITORING AND REPORTING

Sampling and Analysis of Waters

(1.H1) All determinations of the quality of leachate, contaminants released to waters and waters must be made in accordance with methods prescribed in the Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.

Recording of Monitoring Program Results

(1.H2) The holder of this environmental authority must keep a written record of the results of all monitoring programs required under this environmental authority. This record must:

(a) record the results of all analyses, measurements and observations;

(b) record the date and time of sampling; and

(c) have all records of analyses, measurements and observations signed by a responsible officer.

Annual Monitoring Report

(1.H3) The holder of this environmental authority must submit a report to the administering authority with the annual return which shall include but not be limited to:

(a) a summary of the previous twelve (12) month's monitoring results obtained under any monitoring program(s) required under this environmental authority; and

(b) a summary of any record of quantities of discharge required to be kept under this environmental authority; and

(c) for the sewage treatment plant:

(i) the number of domestic tenements newly connected to the sewage treatment works during the previous twelve (12) months; and

(ii) the progressive total number of connections; and

(iii) a summary of any trade waste agreements entered into or amended during the year, including the nature of the industry.

Exception Reporting

(1.H4) The holder of this environmental authority must, unless a program notice in accordance with Section 101 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.

(1.H5) The written notification required by condition number (1.H4) above must include:

(a) the full analysis results; and

(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.

(1.H6) If a program notice has been submitted under Section 101 of the Act, condition numbers (1.H4) and (1.H5) will have been complied with if the required information is submitted by the date specified in a Section 103 notice requiring submission of a draft Environmental Management Program.

END OF CONDITIONS FOR SCHEDULE 1.H

SCHEDULE 1.I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

(1.I1) "administering authority" means the Department of Environment or its successor.

(1.I2) "total nitrogen" means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen

(1.I3) "mg/l" means milligrams per litre.

(1.I4) "annual average" is the arithmetic average calculated using twelve (12) months consecutive results for the characteristic.

(1.I5) "grab" sample means one sample collected at any point in time.

(1.I6) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

(1.I7) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

(1.I8) "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.

(1.I9) "quarterly" means in the first week of each of February, May, August and November.

(1.I10) "aquifer" means a subsurface zone or formation of rock which contains exploitable resources of groundwater.

(1.I11) "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.

(1.I12) "leachate" means contaminated water which has been generated in or percolated through or drained from wastes.

(1.I13) "compaction" means increasing the density of solid waste in landfills by the repeated passage of heavy machinery over its surface.

(1.I14) "cover" means material used to cover wastes deposited in landfills or sanitary depots.

(1.I15) "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.

(1.I16) "capping" means the covering of a landfill or sanitary depot trench with impervious material to inhibit penetration by liquids.

(1.I17) "future waste disposal area" means any waste disposal area constructed after this environmental authority takes effect.

(1.I18) "active waste disposal area " means any area or trench currently being used for the disposal of wastes accepted under a condition of this environmental authority and includes all or part of a disposal trench.

(1.I19) "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 disposal area construction.

(1.I20) "licensed places" means all the licensed places listed individually in the other parts of this environmental authority.

(1.I21) "the holder of this environmental authority" means New Mapoon Aboriginal Council.

END OF CONDITIONS FOR SCHEDULE 1.I

PART 2 - NEW MAPOON SEWAGE TREATMENT PLANT

SCHEDULE 2.A - GENERAL CONDITIONS

Pond System

(2.A1) All ponds at the sewage treatment plant must be constructed, managed and maintained so as to:

(a) minimise any seepage through the beds and banks; and

(b) maintain a minimum freeboard of at least 500 mm; and

(c) minimise erosion of the inner banks of the ponds; and

(d) minimise erosion of the outer banks of the ponds; and

(e) suppress weed growth and mosquito breeding.

END OF CONDITIONS FOR SCHEDULE 2.A

SCHEDULE 2.B - AIR

(2.B1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.B

SCHEDULE 2.C - WATER

Release of Contaminants to Waters

(2.C1) Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the licensed place to any waters at any location other than wet season runoff from the effluent flood irrigation area or overflows from sewage pump stations in accordance with the requirements of this environmental authority.

Pump Stations

(2.C2) The only overflow points permitted to release contaminants to any waters are those listed below at the corresponding overflow locations:

OVERFLOW POINTS	LOCATION	DISCHARGE TO
Pump Station 1	Back of Bond Street	Unnamed Creek

Sewage Pump Station Alarms and Standby Pump Systems

(2.C3) Sewage pump stations whose failure would or would be likely to result in a direct or indirect release of contaminants to waters must be:

(a) fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow and all alarms must be able to operate without mains power if such power failure occurs; and

(b) be inspected at least daily to detect any pump failure before any retention system overflows.

Any works required to achieve compliance with this condition must be completed by 1 July 1999.

Screening of Sewage Pump Station Overflows

(2.C4) Any sewage pump station overflows must be screened to prevent the release of gross solids.

Sewage Pump Stations

(2.C5) The existing sewage pump station and any new sewage pump station installed by the holder of this environmental authority must comply with the following design criteria:

(a) overflows resulting from infiltration should not occur for less than five (5) times design ADWF;

(b) all overflows and overflow control structures must, where practicable, be located away from environmentally sensitive locations including waterways and natural wetlands;

(c) retention basins with at least twenty four (24) hours capacity at design ADWF must be installed to isolate and contain sewage pump station overflows; and

(d) where a retention basin is provided, the contained overflow must be able to be pumped back to the sewage treatment system or removed for off site disposal.

Any works required to achieve compliance with this condition must be completed by 1 July 1999.

END OF CONDITIONS FOR SCHEDULE 2.C

SCHEDULE 2.D - STORMWATER MANAGEMENT

(2.D1) The holder of this environmental authority must carry out the environmentally relevant activity in a manner which minimises the contamination of stormwater by:

(a) diversion of upstream runoff away from areas containing wastes or contaminants including the sewage treatment lagoons; and

(b) maintenance of any diversion drains around treatment lagoons to minimise any undermining or erosion of embankments; and

(c) minimisation of the size of contaminated areas; and

(d) if soil is to be exposed or disturbed as a result of any works associated with the licensed place:

(i) minimisation of the amount of soil to be exposed or disturbed by staging works; and

(ii) revegetation or stabilisation of exposed or disturbed areas; and

(iii) installation of sediment control measures such as settling basins; and

(iv) diversion of upstream runoff from exposed or disturbed areas.

END OF CONDITIONS FOR SCHEDULE 2.D

SCHEDULE 2.E - LAND APPLICATION

Discharge of Treated Sewage Effluent to Land

(2.E1) The holder of this environmental authority must not discharge any treated sewage effluent to land under their control unless the discharge of treated sewage effluent to that area of land is permitted under this environmental authority.

Contaminant Release Location

(2.E2) Treated effluent from the sewage treatment plant may only be discharged to land by flood irrigation to the area adjacent to the plant.

Control of Release of Contaminants to Land

(2.E3) The flood irrigation of treated sewage effluent to land under this environmental authority must be carried out in a manner so as to ensure that:

(a) vegetation is not damaged; and

(b) soil erosion and soil structure damage is minimised; and

(c) the effluent is evenly distributed on the irrigation area.

Sampling Point

(2.E4) The holder of this environmental authority must provide and maintain a sampling point for the treated sewage effluent at the point of discharge from the sewage treatment plant to the flood irrigation area. This sampling point must be maintained so as to be readily accessible to authorised officers at any reasonable time.

Quality of Contaminants Released to Land

(2.E5) The release of contaminants to land must comply with the quality characteristics specified in Schedule 2.E - Table 1.

Schedule 2.E - Table 1

QUALITY CHARACTERISTIC	RELEASE LIMIT(S)	LIMIT TYPE
5-Day Biochemical Oxygen Demand (mg/l)	20 60	annual average maximum
Suspended Solids (mg/l)	60 180	annual average maximum
pH (pH units)	6.0 to 8.5	range
Specific Conductance (µS/cm)	1000	maximum

END OF CONDITIONS FOR SCHEDULE 2.E

SCHEDULE 2.F - NOISE

(2.F1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.F

SCHEDULE 2.G - WASTE MANAGEMENT

Acceptance of Regulated Wastes

(2.G1) The holder of this environmental authority may only accept regulated waste into the sewerage system serving the licensed place when such wastes are commingled with normal domestic sewage or in accordance with a trade waste policy.

Sludge Removal and Handling

(2.G2) The holder of this environmental authority must remove any sludges from the sewage treatment plant in a manner that minimises the risk of spillage of sludge or any other release of contaminants to the environment.

Infiltration Management

(2.G3) The holder of this environmental authority must maintain the sewage reticulation system in such a manner that infiltration and other stormwater inflows are minimised.

END OF CONDITIONS FOR SCHEDULE 2.G

SCHEDULE 2.H - MONITORING AND REPORTING

Monitoring of Contaminant Releases to Land

(2.H1) The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the treated effluent irrigated to land for the quality characteristics and at the frequency specified in Schedule 2.H - Table 1.

Sampling Point Details

(2.H2) Determinations of the quality of contaminants released to land to check conformity with the release quality characteristics specified in Table 1 of Schedule 2.E of this environmental authority must be undertaken on samples collected from the point of discharge to the flood irrigation area.

Schedule 2.H - Table 1

QUALITY CHARACTERISTIC DETERMINATION	FREQUENCY
5-day Biochemical Oxygen Demand	quarterly
Suspended Solids	quarterly
Faecal Coliforms (Organisms/100 ml)	quarterly
pH	quarterly
Specific Conductance	quarterly
Ammonia Nitrogen	quarterly

END OF CONDITIONS FOR SCHEDULE 2.H

SCHEDULE 2.I - DEFINITIONS

(2.I1) "licensed place" in this part of this environmental authority means the New Mapoon Sewage Treatment Plant on Lot 30, SO55, Parish of Cowal, County of Somerset and located at Bamaga - Seisia Road, New Mapoon Qld 4876 and includes any pump stations, reticulation systems and other ancillary works associated with the plant.

END OF CONDITIONS FOR SCHEDULE 2.I

PART 3 - NEW MAPOON REFUSE TIP

SCHEDULE 3.A - GENERAL CONDITIONS

Site Development Plan

(3.A1) The holder of this environmental authority must prepare and submit to the administering authority Site Development Plans for the New Mapoon Refuse Tip to cover each five (5) year period from the date this environmental authority is issued or until a Post Closure Care Plan has been implemented. Each Site Development Plan must be finalised and submitted at least three (3) months before the expiry of the previous plan and must include details of at least the following:

(a) the location and accurate dimensions of any designated areas to be used for the disposal and storage of waste at the licensed place over the period covered by the Site Development Plan; and

(b) any area of the licensed place where precautions are taken in respect of disposal of a particular waste must be marked on the Site Development Plan as soon as practicable after the waste has been disposed of. The following information also needs to be recorded in respect of that waste:

(i) a description of the waste; and

(ii) the accurate location and depth and dimensions of the area in which this waste was disposed; and

(iii) date the waste was deposited; and

(c) where applicable, accurate location of any leachate storage tank, dam or pond, pump well, collection and disposal system installed on the licensed place; and

(d) location of any stormwater drains or diversion embankments to be constructed to achieve compliance with this environmental authority; and

(e) location of any area to be capped, the proposed final surface levels and contours, and the final drainage system as part of a rehabilitation program for the licensed place over the period covered by this Site Development Plan.

Waste Acceptance Criteria

(3.A2) This environmental authority permits only the following wastes to be received for disposal at the licensed place:

(a) construction wastes and demolition waste (including incidental amounts of asbestos wastes commingled with other construction or demolition wastes); and

(b) minor quantities of regulated wastes incidental to and commingled with domestic refuse; and

(c) solid inert waste; and

(d) putrescible wastes and domestic garbage; and

(e) green wastes.

Note:

(i) drums containing any residual regulated wastes are themselves a regulated waste and must not be received for disposal at the licensed place unless they have been steam cleaned, triple rinsed or thoroughly cleaned.

(ii) tyres may be temporarily stored on the licensed place; and

(iii) car bodies and recyclable solid inert wastes may be stored on the licensed place.

Wastes Prohibited for Disposal

(3.A3) Notwithstanding condition number (3.A2), the following wastes must not be disposed of on the licensed place:

(a) pyrophoric wastes (where co-disposed with other potentially combustible material); or

(b) pharmaceutical wastes, infectious wastes, human body parts, pathogenic wastes and cytotoxic 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) regulated wastes other than those specified under condition number (3.A2).

Supervision

(3.A4) The holder of this environmental authority must ensure that the licensed place is inspected as often as is necessary so as to ensure compliance with this environmental authority, but in any case not less frequently than once per week.

END OF CONDITIONS FOR SCHEDULE 3.A

SCHEDULE 3.B - AIR

Odour Generation

(3.B1) In the event of a complaint being made to the holder of this environmental authority or administering authority about noxious or offensive odour generated on the licensed place, measures must be taken to minimise the release of the odour beyond the boundaries of the licensed place.

Dust Generation

(3.B2) In the event of a complaint being made to the holder of the environmental authority or administering authority about dust generated on the licensed place that constitutes annoyance, measures must be taken to minimise the release of dust from the licensed place.

Dust Control

(3.B3) Any stockpiles of inert cover material must be managed so as to minimise wind blown dust emissions.

(3.B4) The holder of this environmental authority must ensure that all wastes accepted onto the licensed place are handled, disposed of or stockpiled in such a way as to minimise dust generation.

END OF CONDITIONS FOR SCHEDULE 3.B

SCHEDULE 3.C - WATER

(3.C1) The holder of this environmental authority must not either directly or indirectly release any leachate generated on the licensed place to any land beyond the boundary of the licensed place or to any stormwater drain or waters.

END OF CONDITIONS FOR SCHEDULE 3.C

SCHEDULE 3.D - STORMWATER MANAGEMENT

Stormwater Diversion

(3.D1) 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 waste disposal area;

(b) any waste storage areas;

(c) any area previously used for waste disposal.

END OF CONDITIONS FOR SCHEDULE 3.D

SCHEDULE 3.E - LAND APPLICATION

(3.E1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 3.E

SCHEDULE 3.F - NOISE

(3.F1) Nil conditions.

END OF CONDITIONS OF SCHEDULE 3.F

SCHEDULE 3.G - WASTE MANAGEMENT

Compliance with Site Development Plan

(3.G1) The holder of this environmental authority must ensure waste disposal activities are carried out in accordance with the Site Development Plan required under condition number (3.A1) of this environmental authority.

Soil Permeability

(3.G2) Any future waste disposal area, leachate storage pond and above ground embankment on the licensed place must be constructed to a standard which effectively minimises the release of leachate through the base and embankments.

Access to Active Waste Disposal Area

(3.G3) The holder of this environmental authority must ensure any waste disposal area constructed on the licensed place is constructed with ramps to allow plant and machinery access to the active waste disposal area, so that wastes can be effectively consolidated, compacted and covered.

Maintenance of Embankments

(3.G4) The perimeter embankments of any disposal area or leachate storage pond installed on the licensed place must be maintained so as to minimise the seepage of leachate and to ensure the stability and integrity of their construction.

Leachate Management

(3.G5) The holder of this environmental authority must ensure that all reasonable and practical measures are taken to ensure all active waste disposal area are operated and managed so as to minimise the generation of leachate.

Leachate Disposal

(3.G6) 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.

(3.G7) Leachate must not be disposed of on any area of the licensed place that has received its 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.

Active Waste Disposal Area Management

(3.G8) The holder of this environmental authority must ensure that waste disposal activities do not extend beyond the boundary of the licensed place.

(3.G9) The holder of this environmental authority must take effective measures to ensure that all wastes received for disposal at the licensed place are not disposed of:

(a) beyond any active waste disposal area; or

(b) into waters or leachate collected at the base of any active waste disposal area; or

(c) beyond the catchment of any leachate collection drains installed as part of a leachate collection system.

(3.G10) All large metal articles received for disposal must be effectively compacted before being deposited at the base of any active waste disposal trench.

Availability of Cover Material

(3.G11) The holder of this environmental authority must ensure that a stockpile of cover material in sufficient quantities to cover waste disposed on the licensed place over any one (1) week period is readily accessible at all times.

Covering of Wastes

(3.G12) Wastes deposited in any active waste disposal area must be effectively consolidated, compacted and covered with a layer of inert earthen material or other non-combustible, inert material to prevent exposure of covered wastes as often as is necessary to:

(a) prevent the access of flies, rodents, or other animals to covered wastes;

(b) minimise the propagation of odours from deposited wastes; and

(c) minimise the generation of windblown litter; and

(d) reduce the risk of fire; and

(e) ensure compliance with the conditions of this environmental authority, but in any case not less frequently than once per week.

Mechanical Plant

(3.G13) Mechanical plant capable of ensuring compliance with this environmental authority must be used to carry out any consolidation, compaction and covering of wastes deposited in any active waste disposal area.

Tyre Storage

(3.G14) 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.

(3.G15) Where there is more than one heap of waste tyres, a separation distance between the heaps or other methods 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.

Disposal of Asbestos Wastes

(3.G16) Any asbestos wastes must be disposed of:

(a) in a designated waste disposal trench; and

(b) not less than two (2) metres below the surface level of the trench; and

(c) must be covered as soon as practicable after disposal has taken place.

Access Roads

(3.G17) The holder of this environmental authority must ensure all weather access roads are constructed and maintained so that at all times whilst the licensed place is open for receiving wastes, vehicles have access to any active waste disposal area.

Signs

(3.G18) The holder of this environmental authority must cause signs, maintained in good repair and giving the following information, to be erected at the entrance to the licensed place and/or in prominent locations on the licensed place where necessary:

(a) the wastes permitted to be received at the licensed place; and

(b) prohibition of the lighting of unauthorised fires on the licensed place; and

(c) directing traffic to the location of the active waste disposal area.

Fencing

(3.G19) Fences and barriers must be erected and maintained at the licensed place so as to prevent stock access to any active waste disposal area.

Litter Control

(3.G20) Where necessary, relocatable litter screens or other methods of litter control must be provided at the active disposal area in order to effectively capture paper or other wind blown litter generated by waste disposal activities on the licensed place.

(3.G21) The holder of this environmental authority must ensure litter is collected so as to ensure that the licensed place, all fences, litter screens and the surrounds of the licensed place are kept in a tidy condition.

Public Health Issues

(3.G2) The holder of this environmental authority must make provision to ensure that the operation of the waste disposal facility does not create a public health problem. The holder of the environmental authority must carry out any works required by the administering authority to prevent or abate any public health problem or nuisance which may arise as a result of the operation of the licensed place.

(3.G23) The holder of the environmental authority must take all practical measures to ensure that the environmentally relevant activity is conducted at all times in a nuisance free manner, particularly regarding fly breeding, mosquito breeding and rat harbourage and breeding.

Fire Control

(3.G24) The holder of this environmental authority must ensure a fire break is maintained around any active waste disposal area so as to prevent the spread of fire to adjoining land.

(3.G25) In the event of any fire occurring at the licensed place the holder of this environmental authority must extinguish the fire, as soon as it is safe to do so.

Final Cover

(3.G26) Any completed waste disposal area must be capped with low permeability material and compacted so as to effectively minimise infiltration of stormwater.

(3.G27) Soils or other materials used to construct the capping of any completed waste disposal area must achieve an in situ permeability of 1×10^{-8} metres per second.

(3.G28) Any completed and capped waste disposal area must be progressively covered with clean earth to a depth of at least 250 millimetres capable of supporting shallow rooted vegetation. A thicker top soil layer may be necessary to support deeper rooted vegetation and also to prevent root penetration of the cap.

(3.G29) The final surface of any completed disposal area of the licensed place must, after covering as specified in condition number (3.G28) be graded, drained and vegetated so as to:

(a) minimise erosion;

(b) divert clean stormwater away from the completed disposal area; and

(c) prevent ponding of stormwater.

(3.G30) In the areas awaiting rehabilitation or those in the process of being rehabilitated, vehicle access must be restricted by suitable barriers to prevent surface disturbance.

Closure and Post Closure Care Plan

(3.G31) The holder of this environmental authority must develop a Closure and Post Closure Care Plan for the waste disposal facility which extends for a nominal period of (30) years after cessation of waste disposal activities and continues in effect until it can be demonstrated to the administering authority that the area used for waste disposal will not release contaminants to the environment.

(3.G32) The Closure and Post Closure Care Plan must include, but not necessarily be limited to the following:

(a) proposed after use of any area used for waste disposal;

(b) maintenance of stormwater diversion away from any area previously used for waste disposal; and

(c) maintenance of any capping material used as final cover on any trench used for waste disposal.

(3.G33) At least six (6) months before the cessation of waste disposal activities at the waste disposal facility the holder of this environmental authority must submit the Closure and Post Care Plan to the administering authority for review and comment.

.END OF CONDITIONS FOR SCHEDULE 3.G

SCHEDULE 3.H - MONITORING AND REPORTING

(3.H1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 3.H

SCHEDULE 3.I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

(3.I1) "licensed place" in this part of this environmental authority means the New Mapoon Tip, Lot 30, SO55, Parish of Cowal, County of Somerset, located at the end of Langie Street, New Mapoon QLD 4871.

END OF CONDITIONS FOR SCHEDULE 3.I

END OF ENVIRONMENTAL AUTHORITY

ENVIRONMENTAL PROTECTION ACT 1994

Queensland Government
Environmental Protection Agency
Queensland **Parks and Wildlife Service**

Cairns District Office
PO Box 2066 CAIRNS QLD 4870
Phone: (07) 4046 6602 Fax: (07) 4046 6606
www.env.qld.gov.au ABN: 87221158786

Integrated Authority No. 5010000231

COPY

Section 311 *Environmental Protection Act 1994*

This integrated authority, issued in accordance with section 311 of the Environmental Protection Act 1994 *(the EP Act), provides for the carrying out of different Environmentally Relevant Activities or Environmentally Relevant Activities at different places managed in an integrated way. This integrated authority comprises of one or more types of environmental authority(ies) in accordance with sections 86, 93, 95, 104, 113 and 311, of the EP Act, and this integrated authority details the conditions that are relevant to each stated type of environmental authority.*

Under the provisions of the *Environmental Protection Act 1994* this integrated authority is issued to:

Umagico Aboriginal Council
6 Woosup Street
UMAGICO QLD 4876

in respect of carrying out the Environmentally Relevant Activities (ERAs) at the same place and under the types of environmental authorities described in Table 1.

This integrated authority is subject to the conditions set out in the attached schedules.

The anniversary date of this licence is 16 February.

This amended integrated authority takes effect from 4 March 2002.

Mark Cavicchiolo — Signed

4 March 2002 — Date

Mark Cavicchiolo
Operations Manager (Licensing)
Cairns District, Northern Region
Delegate of Administering Authority
Environmental Protection Act 1994

Note: This integrated authority document is not proof of the current status of the integrated authority. The current status of the integrated authority may be ascertained by contacting the Environmental Protection Agency.

DESPATCHED
04 MAR 2002
Reg Mail No: RA849369

Table 1: This integrated authority consists of the following part(s):

Part 1: Level 2 Approval (Section 104)

Applicable Part	ERA No.	ERA name	Lot	Plan	Location
1	24	Boiler making or engineering	58	SO57	Umagico Boiler Making Workshop Parish of Cowal, County of Somerset, Massey Street UMAGICO QLD 4876.

Part 2: Licence (without development approval) (Section 93)

Applicable Part	ERA No.	ERA name	Lot	Plan	Location
2	75(a)(i)	Waste disposal – more than 50t but not more than 2 000t per year.	58	SO57	Umagico Refuse Tip Parish of Cowal, County of Somerset, Bamaga Road UMAGICO QLD 4876.

The aforementioned description of the ERA(s) for which this authority is issued is simply a restatement of the ERA(s) as prescribed in the legislation at the time of issuing the authority. Where there is any conflict between the above description of the ERA(s) for which this authority is issued and the conditions as specified in this authority as to the scale, intensity or manner of carrying out of the ERA(s) then such conditions prevail to the extent of the inconsistency.

This integrated authority incorporates the following parts:

Part 1 - Level 2 Approval (Section 104)
Part 2 - Licence (without development approval) (Section 93)

Each part consists of conditions relevant to various issues.

PART 1 - LEVEL 2 APPROVAL(S) (Section 104)

This environmental authority type remains in force until 04 March 2007.

This part is for the carrying out of a level 2 environmentally relevant activity, under chapter 4, part 3, division 3 of the Environmental Protection Act 1994.

SCHEDULE 1.A - GENERAL CONDITIONS

Access to Environmental Authority, Integrated Environmental Management System, Site Based Management Plans and Site Development Plans

(1.A1) A copy of this environmental authority and any associated plans must be kept in a location readily accessible to personnel carrying out the environmentally relevant activity.

Records

(1.A2) Any record or document required to be kept by a condition of this environmental authority must be kept at the council offices for a period of at least five (5) years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Alterations

(1.A3) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

Monitoring and Measurements

(1.A4) All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

Calibration

(1.A5) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

Due Regard for Comment

(1.A6) Where any plan or program is required, as a condition of this environmental authority, to be submitted to the administering authority for review and comment, the holder of this environmental authority must have due regard to those comments in the finalisation of that plan or program.

Integrated Environmental Management System (IEMS)

(1.A7) The holder of this environmental authority must:

(a) develop and implement an IEMS which provides for the following functions:

(i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and

(ii) staff training and awareness of environmental issues to ensure that, at the minimum:

(1) any person responsible for carrying out any of the environmentally relevant activities is familiar with the conditions of this environmental authority as they relate to the person's responsibilities; and

(2) any person responsible for the operation and maintenance of plant and equipment used in carrying out the environmentally relevant activities is competent to carry out their duties; and

(iii) the conduct of environmental and energy audits; and

(iv) waste prevention, treatment and disposal; and

(v) preparation and implementation of Site Based Management Plans for each licensed place covered by this environmental authority; and

(b) lodge with the administering authority on or before 31 March 1998 and at three (3) monthly intervals thereafter until 30 September 1998, a brief report describing the progress in developing and implementing the IEMS; and

(c) on or before 31 December 1998 lodge a detailed description of the IEMS and its documentation with the administering authority for its review and comment; and

(d) have due regard to that comment in the finalisation of the IEMS; and

(e) on or before 31 March 1999 have completed and implemented the IEMS.

Site Based Management Plans

(1.A8) Site Based Management Plans required by this environmental authority must provide for at least the following functions:

(a) routine operating procedures to prevent or minimise environmental harm from the carrying out of the environmentally relevant activities and include procedures for the recovery, storage and proper disposal of any wastes found at the Umagico Refuse Tip which are not allowed to be disposed of at that site.

(b) maintenance practices and procedures to ensure that all plant and equipment used in the carrying out of the environmentally relevant activities are maintained in good working order; and

(c) contingency plans and emergency procedures to deal with foreseeable risks and hazards; and

(d) recording and handling of environmental complaints; and

(e) preparation and carrying out of monitoring programs to ensure compliance with the conditions of this licence.

(f) monitoring of compliance with any of the requirements of:

(i) the conditions of this environmental authority; or

(ii) any plans or programs prepared under this environmental authority; and

(g) review and amendment or improvement of operating procedures and plans or programs required under Site Based Management Plans where deficiencies are revealed by the monitoring program required in section (f) of this condition; and

(h) any other specific requirements of the other parts of this environmental authority.

END OF CONDITIONS FOR SCHEDULE 1.A

SCHEDULE 1.B - AIR

(1.B1) Welding, grinding, sanding, cutting and any other boiler making activities must be carried out in such a manner that minimises the risk of any nuisance being caused by dust, fume, odour or welding glare.

(1.B2) Welding must not be conducted outside the workshop confines unless:

(a) the object/s being welded cannot practically and reasonably be brought into the workshop due to size constraints; and

(b) the object/s being welded cannot practically and reasonably be dismantled or brought in as components into the workshop.

END OF CONDITIONS FOR SCHEDULE 1.B

SCHEDULE 1.C - WATER

(1.C1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.C

SCHEDULE 1.D - STORMWATER MANAGEMENT

(1.D1) The licensed place must be operated in such a way that contamination of stormwater is avoided or minimised by:

(a) diversion of upstream runoff away from areas containing wastes or contaminants; and

(b) minimisation of the size of contaminated areas; and

(1.D2) Any spillage of wastes, contaminants or other materials which occurs whilst undertaking the environmentally relevant activity must be cleaned up as quickly as practicable using absorbent materials. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.

(1.D3) The workshop floor must not be washed by hosing where such hosing would result in releasing contaminants to any stormwater drainage system, roadside gutter or waters. Cleaning methods used must not allow wastewater to be released beyond the confines of the workshop.

(1.D4) The maintenance and cleaning of vehicles and any other equipment or plant must not be carried out in areas from which contaminants can be released into any waters, roadside gutter or stormwater drainage system.

END OF CONDITIONS FOR SCHEDULE 1.D

SCHEDULE 1.E - LAND APPLICATION

Release of Contaminants to Land

(1.E1) Any engines, damaged vehicles and other vehicle parts (new or used) kept at the licensed place must be stored in such a manner as to ensure oil, grease and other contaminants cannot contaminate stormwater or enter the soil.

(1.E2) Oil, fuel, solvent, detergent and solid/liquid waste containers must be stored in such a manner so as to prevent the release of contaminants to the environment.

END OF CONDITIONS FOR SCHEDULE 1.E

SCHEDULE 1.F - NOISE

Emission of Noise

(1.F1) In the event the holder of this environmental authority or the administering authority receives a complaint about noise generated on any of the licensed places covered by this environmental authority which it considers reasonable, measures must be taken to minimise the release of the noise emission beyond the boundaries of the licensed place until the circumstances which gave rise to the complaint are resolved.

END OF CONDITIONS FOR SCHEDULE 1.F

SCHEDULE 1.G - WASTE MANAGEMENT

General

(1.G1) 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 this 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*.

Off Site Movement of Regulated Wastes

(1.G2) Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must ensure that records are kept of the following:

(a) the date, quantity and type of waste removed; and

(b) name of the waste transporter that removed the waste; and

(c) the intended treatment/disposal destination of the waste.

(1.G3) Records of any trade waste agreements for discharge of wastes to sewers must be made available for inspection on request.

Treatment of Wastewaters

(1.G4) Any wastewaters contaminated with hydrocarbons must be treated by passing through an oil/water separator before being discharged to waters, sewer or land.

(1.G5) The holder of this environmental authority must ensure that sludge, grease, oil and sediments collected within wastewater pretreatment units, including oil/water separators, interceptors and holding tanks are removed by a licensed regulated waste transporter as often as is necessary to:

(a) ensure that the unit is operating to its optimum design efficiency; and

(b) prevent overflow of wastes out of the unit.

(1.G6) The holder of this environmental authority must ensure that:

(a) drip trays and containers are positioned under taps fitted to oil, solvent and detergent containers to collect drips and prevent residual liquid within the tap and associated pipe fittings from discharging freely;

(b) drip trays and containers are positioned under metal cutting and shaping equipment using water oil or a mixed emulsion as a lubricant; and

(c) the drip trays and containers are emptied and cleaned regularly.

Disposal of Regulated Waste

(1.G7) All regulated waste transported from the licensed place must be taken to a facility licensed under the Environmental Protection Act to accept such wastes.

Notification of Improper Disposal of Regulated Waste

(1.G8) If the holder of this environmental authority becomes aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.

END OF CONDITIONS FOR SCHEDULE 1.G

SCHEDULE 1.H - SELF MONITORING AND REPORTING

(1.H1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 1.H

SCHEDULE 1.I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

(1.I1) "administering authority" means the Department of Environment or its successor.

(1.I2) "aquifer" means a subsurface zone or formation of rock which contains exploitable resources of groundwater.

(1.I3) "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.

(1.I4) "leachate" means contaminated water which has been generated in or percolated through or drained from wastes.

(1.I5) "compaction" means increasing the density of solid waste in landfills by the repeated passage of heavy machinery over its surface.

(1.I6) "cover" means material used to cover wastes deposited in landfills or sanitary depots.

(1.I7) "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.

(1.I8) "capping" means the covering of a landfill or sanitary depot trench with impervious material to inhibit penetration by liquids.

(1.I9) "future waste disposal area" means any waste disposal area constructed after this environmental authority takes effect.

(1.I10) "active waste disposal area " means any area or trench currently being used for the disposal of wastes accepted under a condition of this environmental authority and includes all or part of a disposal trench.

(1.I11) "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 disposal area construction.

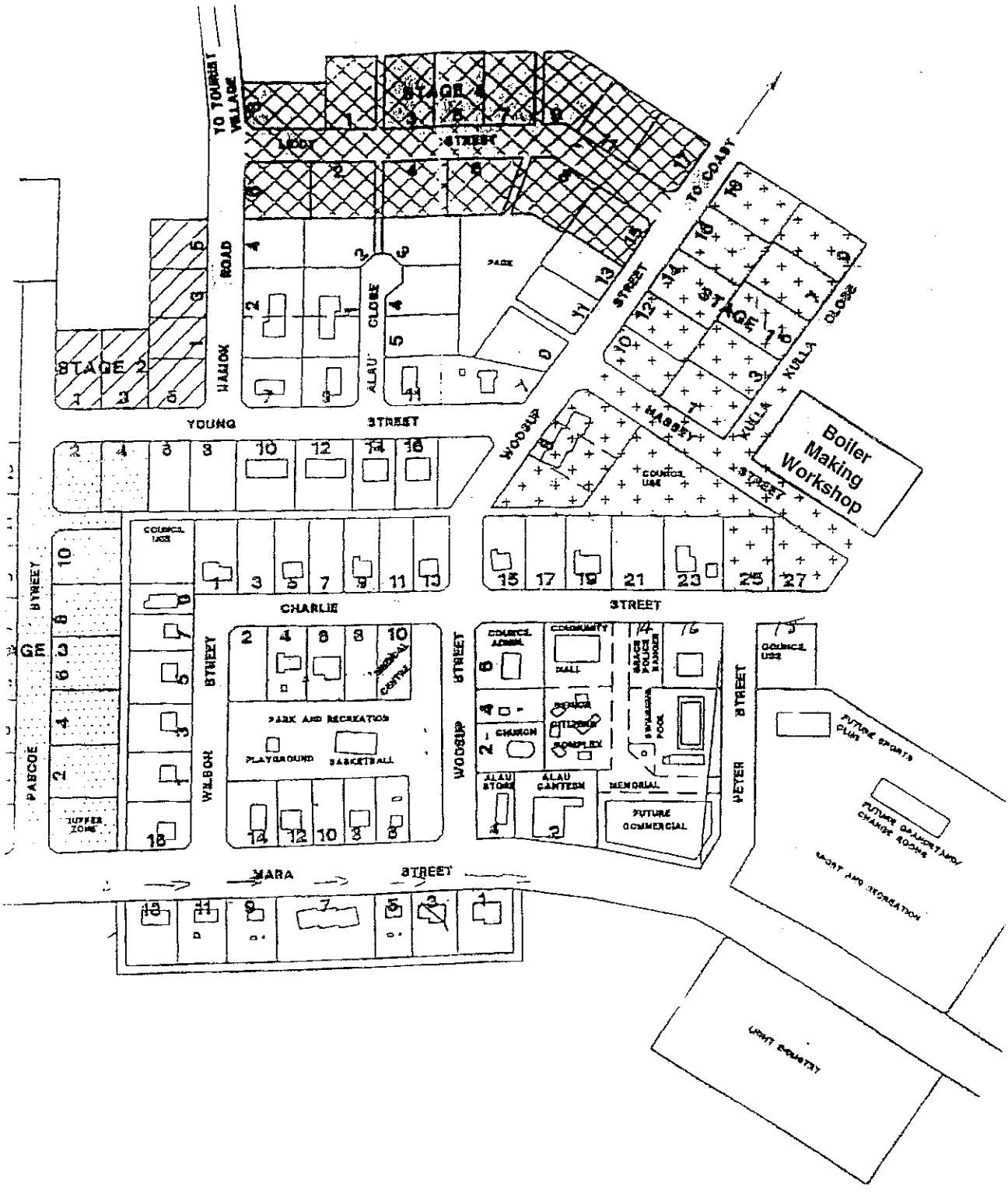
(1.I12) "licensed place" in this part of this environmental authority means the Umagico Boiler Making Workshop on Lot 58, SO57, Parish of Cowal, County of Somerset and located at Massey Street, Umagico Qld 4876.

(1.I13) "the holder of this environmental authority" means Umagico Aboriginal Council.

END OF CONDITIONS FOR SCHEDULE 1.I

SCHEDULE 1.J - SITE PLANS

(1.J1) Location of Umagico Aboriginal Council – Boiler Making Workshop



END OF CONDITIONS FOR SCHEDULE 1J

END OF PART 1

PART 2 - LICENCE (WITHOUT DEVELOPMENT APPROVAL) (Section 93)

This part is for the carrying out of a level 1 environmentally relevant activity without a development approval, under chapter 4, part 3, division 2, subdivision 1 of the Environmental Protection Act 1994.

SCHEDULE 2.A - GENERAL CONDITIONS

Access to Environmental Authority, Integrated Environmental Management System, Site Based Management Plans and Site Development Plans

(2.A1) A copy of this environmental authority and any associated plans must be kept in a location readily accessible to personnel carrying out the environmentally relevant activity.

Records

(2.A2) Any record or document required to be kept by a condition of this environmental authority must be kept at the council offices for a period of at least five (5) years and be available for examination by an authorised person. For daily and weekly records, the record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.

Alterations

(2.A3) No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.

An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be released into the environment.

Monitoring and Measurements

(2.A4) All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

Calibration

(2.A5) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.

Due Regard for Comment

(2.A6) Where any plan or program is required, as a condition of this environmental authority, to be submitted to the administering authority for review and comment, the holder of this environmental authority must have due regard to those comments in the finalisation of that plan or program.

Integrated Environmental Management System (IEMS)

(2.A7) The holder of this environmental authority must:

(a) develop and implement an IEMS which provides for the following functions:

(i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and

(ii) staff training and awareness of environmental issues to ensure that, at the minimum:

(1) any person responsible for carrying out any of the environmentally relevant activities is familiar with the conditions of this environmental authority as they relate to the person's responsibilities; and

(2) any person responsible for the operation and maintenance of plant and equipment used in carrying out the environmentally relevant activities is competent to carry out their duties; and

(iii) the conduct of environmental and energy audits; and

(iv) waste prevention, treatment and disposal; and

(v) preparation and implementation of Site Based Management Plans for each licensed place covered by this environmental authority; and

(b) lodge with the administering authority on or before 31 March 1998 and at three (3) monthly intervals thereafter until 30 September 1998, a brief report describing the progress in developing and implementing the IEMS; and

(c) on or before 31 December 1998 lodge a detailed description of the IEMS and its documentation with the administering authority for its review and comment; and

(d) have due regard to that comment in the finalisation of the IEMS; and

(e) on or before 31 March 1999 have completed and implemented the IEMS.

Site Based Management Plans

(2.A8) Site Based Management Plans required by this environmental authority must provide for at least the following functions:

(a) routine operating procedures to prevent or minimise environmental harm from the carrying out of the environmentally relevant activities and include procedures for the recovery, storage and proper disposal of any wastes found at the Umagico Refuse Tip which are not allowed to be disposed of at that site.

(b) maintenance practices and procedures to ensure that all plant and equipment used in the carrying out of the environmentally relevant activities are maintained in good working order; and

(c) contingency plans and emergency procedures to deal with foreseeable risks and hazards; and

(d) recording and handling of environmental complaints; and

(e) preparation and carrying out of monitoring programs to ensure compliance with the conditions of this licence.

(f) monitoring of compliance with any of the requirements of:

i. the conditions of this environmental authority; or

ii. any plans or programs prepared under this environmental authority; and

(g) review and amendment or improvement of operating procedures and plans or programs required under Site Based Management Plans where deficiencies are revealed by the monitoring program required in section (f) of this condition; and

(h) any other specific requirements of the other parts of this environmental authority.

Site Development Plan

(2.A9) The holder of this environmental authority must prepare and submit to the administering authority Site Development Plans for the Umagico Refuse Tip to cover each five (5) year period from the date this environmental authority is issued or until a Post Closure Care Plan has been implemented. Each Site Development Plan must be finalised and submitted at least three (3) months before the expiry of the previous plan and must include details of at least the following:

(a) the location and accurate dimensions of any designated areas to be used for the disposal and storage of waste at the licensed place over the period covered by the Site Development Plan; and

(b) any area of the licensed place where precautions are taken in respect of disposal of a particular waste must be marked on the Site Development Plan as soon as practicable after the waste has been disposed of. The following information also needs to be recorded in respect of that waste:

(i) a description of the waste; and

(ii) the accurate location and depth and dimensions of the area in which this waste was disposed; and

(iii) date the waste was deposited; and

(c) where applicable, accurate location of any leachate storage tank, dam or pond, pump well, collection and disposal system installed on the licensed place; and

(d) location of any stormwater drains or diversion embankments to be constructed to achieve compliance with this environmental authority; and

(e) location of any area to be capped, the proposed final surface levels and contours, and the final drainage system as part of a rehabilitation program for the licensed place over the period covered by this Site Development Plan.

Waste Acceptance Criteria

(2.A10) This environmental authority permits only cardboard and paper wastes to be received for disposal at the licensed place:

Wastes Prohibited for Disposal

(2.A11) Notwithstanding condition number (2.A10), the following wastes must not be disposed of on the licensed place:

(a) pyrophoric wastes (where co-disposed with other potentially combustible material); or

(b) pharmaceutical wastes, infectious wastes, human body parts, pathogenic wastes and cytotoxic 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) regulated wastes other than those specified under condition number (2.A10).

Supervision

(2.A12) The holder of this environmental authority must ensure that the licensed place is inspected as often as is necessary so as to ensure compliance with this environmental authority, but in any case not less frequently than once per week.

END OF CONDITIONS FOR SCHEDULE 2.A

SCHEDULE 2.B - AIR

Odour Generation

(2.B1) In the event of a complaint being made to the holder of this environmental authority or the administering authority about noxious or offensive odour generated on the licensed place, measures must be taken to minimise the release of the odour beyond the boundaries of the licensed place.

Dust Generation

(2.B2) In the event of a complaint being made to the holder of the environmental authority or the administering authority about dust generated on the licensed place that constitutes annoyance, measures must be taken to minimise the release of dust from the licensed place.

Dust Control

(2.B3) Any stockpiles of inert cover material must be managed so as to minimise wind blown dust emissions.

(2.B4) The holder of this environmental authority must ensure that all wastes accepted onto the licensed place are handled, disposed of or stockpiled in such a way as to minimise dust generation.

END OF CONDITIONS FOR SCHEDULE 2.B

SCHEDULE 2.C - WATER

(2.C1) The holder of this environmental authority must not either directly or indirectly release any leachate generated on the licensed place to any land beyond the boundary of the licensed place or to any stormwater drain or waters.

END OF CONDITIONS FOR SCHEDULE 2.C

SCHEDULE 2.D - STORMWATER MANAGEMENT

Stormwater Diversion

(2.D1) 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 waste disposal area;

(b) any waste storage areas;

(c) any area previously used for waste disposal.

END OF CONDITIONS FOR SCHEDULE 2.D

SCHEDULE 2.E - LAND APPLICATION

(2.E1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.E

SCHEDULE 2.F - NOISE

Emission of Noise

(2.F1) In the event the holder of this environmental authority or the administering authority receives a complaint about noise generated on any of the licensed places covered by this environmental authority which it considers reasonable, measures must be taken to minimise the release of the noise emission beyond the boundaries of the licensed place until the circumstances which gave rise to the complaint are resolved.

END OF CONDITIONS FOR SCHEDULE 2.F

SCHEDULE 2.G - WASTE MANAGEMENT

General

(2.G1) 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 this 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*.

Off Site Movement of Regulated Wastes

(2.G2) Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must ensure that records are kept of the following:

(a) the date, quantity and type of waste removed; and

(b) name of the waste transporter that removed the waste; and

(c) the intended treatment/disposal destination of the waste.

(2.G3) Records of any trade waste agreements for discharge of wastes to sewers must be made available for inspection on request.

Compliance with Site Development Plan

(2.G4) The holder of this environmental authority must ensure waste disposal activities are carried out in accordance with the Site Development Plan required under condition number (2.A9) of this environmental authority.

Soil Permeability

(2.G5) Any future waste disposal trench on the licensed place must be constructed to a standard which effectively minimises the release of leachate from the trench.

Access to Active Waste Disposal Area

(2.G6) The holder of this environmental authority must ensure any waste disposal trench constructed on the licensed place is constructed with ramps to allow plant and machinery access to the trench, so that wastes can be effectively consolidated, compacted and covered.

Leachate Management

(2.G7) The holder of this environmental authority must ensure that all reasonable and practical measures are taken to ensure all active waste disposal areas are operated and managed so as to minimise the generation of leachate.

Leachate Disposal

(2.G8) 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.

(2.G9) Leachate must not be disposed of on any area of the licensed place that has received its 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.

Active Waste Disposal Trench Management

(2.G10) The holder of this environmental authority must ensure that waste disposal activities do not extend beyond the boundary of the licensed place.

(2.G11) The holder of this environmental authority must take effective measures to ensure that all wastes received for disposal at the licensed place are not disposed of:

(a) beyond any active waste disposal trench;

(b) into waters or leachate collected at the base of any active waste disposal area; and

(c) beyond the catchment of any leachate collection drains installed as part of a leachate collection system.

Availability of Cover Material

(2.G12) The holder of this environmental authority must ensure that a stockpile of cover material in sufficient quantities to carry out two (2) covering operations of waste disposed of on the licensed place is readily accessible at all times.

Covering of Wastes

(2.G13) Wastes deposited in any active waste disposal area must be effectively consolidated, compacted and covered with a layer of inert earthen material or other non-combustible, inert material to prevent exposure of covered wastes as often as is necessary to:

(a) minimise the generation of windblown litter; and

(b) reduce the risk of fire; and

(c) ensure compliance with the conditions of this environmental authority, but in any case not less frequently than once per month.

Mechanical Plant

(2.G14) Mechanical plant capable of ensuring compliance with this environmental authority must be used to carry out any consolidation, compaction and covering of wastes deposited in any active waste disposal area.

Access Roads

(2.G15) The holder of this environmental authority must ensure all weather access roads are constructed and maintained so that at all times whilst the licensed place is open for receiving wastes, vehicles have access to any active waste disposal area.

Litter Control

(2.G16) Where necessary, relocatable litter screens or other methods of litter control must be provided at the active disposal area in order to effectively capture paper or other wind blown litter generated by waste disposal activities on the licensed place.

(2.G17) The holder of this environmental authority must ensure litter is collected so as to ensure that the licensed place, all fences, litter screens and the surrounds of the licensed place are kept in a tidy condition.

Fire Control

(2.G18) The holder of this environmental authority must ensure a fire break is maintained around any active waste disposal area so as to prevent the spread of fire to adjoining land.

(2.G19) In the event of any fire occurring at the licensed place the holder of this environmental authority must extinguish the fire, as soon as it is safe to do so.

Final Cover

(2.G20) Any completed waste disposal trench must be covered with clean earth to a depth of at least 250 millimetres capable of supporting shallow rooted vegetation.

(2.G21) The final surface of any completed disposal area of the licensed place must, after covering as specified in condition number (2.G20) be graded, drained and vegetated so as to:

(a) minimise erosion; and

(b) divert clean stormwater away from the completed disposal area; and

(c) prevent ponding of stormwater.

(2.G22) In the areas awaiting rehabilitation or those in the process of being rehabilitated, vehicle access must be restricted by suitable barriers to prevent surface disturbance.

Closure and Post Closure Care Plan

(2.G23) The holder of this environmental authority must develop a Closure and Post Closure Care Plan for the waste disposal facility which extends for a nominal period of (30) years after cessation of waste disposal activities and continues in effect until it can be demonstrated to the administering authority that the area used for waste disposal will not release contaminants to the environment.

(2.G24) The Closure and Post Closure Care Plan must include, but not necessarily be limited to the following:

(a) proposed after use of any area used for waste disposal;

(b) maintenance of stormwater diversion away from any area previously used for waste disposal; and

(c) maintenance of any capping material used as final cover on any trench used for waste disposal.

(2.G25) At least six (6) months before the cessation of waste disposal activities at the waste disposal facility the holder of this environmental authority must submit the Closure and Post Care Plan to the administering authority for review and comment.

END OF CONDITIONS FOR SCHEDULE 2.G

SCHEDULE 2.H - SELF MONITORING AND REPORTING

(2.H1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 2.H

SCHEDULE 2.I - DEFINITIONS

For the purposes of this environmental authority the following definitions apply:

(2.I1) "administering authority" means the Department of Environment or its successor.

(2.I2) "aquifer" means a subsurface zone or formation of rock which contains exploitable resources of groundwater.

(2.I3) "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.

(2.I4) "leachate" means contaminated water which has been generated in or percolated through or drained from wastes.

(2.I5) "compaction" means increasing the density of solid waste in landfills by the repeated passage of heavy machinery over its surface.

(2.I6) "cover" means material used to cover wastes deposited in landfills or sanitary depots.

(2.I7) "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.

(2.I8) "capping" means the covering of a landfill or sanitary depot trench with impervious material to inhibit penetration by liquids.

(2.I9) "future waste disposal area" means any waste disposal area constructed after this environmental authority takes effect.

(2.I10) "active waste disposal area " means any area or trench currently being used for the disposal of wastes accepted under a condition of this environmental authority and includes all or part of a disposal trench.

(2.I11) "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 disposal area construction.

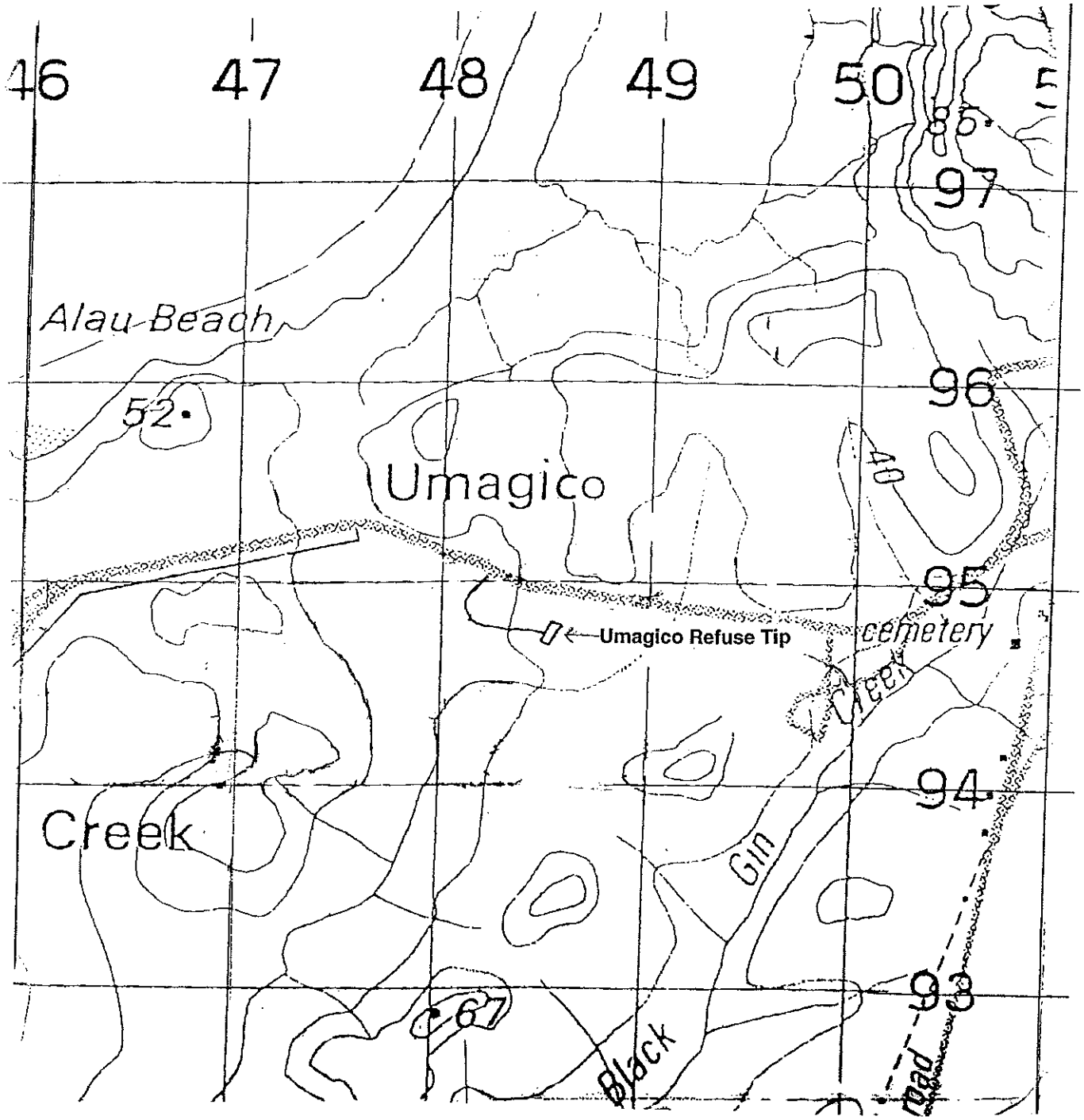
(2.I12) "licensed place" in this part of this environmental authority means the Umagico Refuse Tip, Lot 58, SO57, Parish of Cowal, County of Somerset, located at Bamaga Road, Umagico Qld 4876.

(2.I13) "the holder of this environmental authority" means Umagico Aboriginal Council.

END OF CONDITIONS FOR SCHEDULE 2.I

SCHEDULE 2.J - SITE PLANS

(2.J1) **Location of Umagico Aboriginal Council – Refuse Tip**



END OF CONDITIONS FOR SCHEDULE 2.J

END OF PART 2

END OF INTEGRATED AUTHORITY

ecoaccess
environmental licences and permits

Certificate of Registration

No: ENRE00436505

This certificate is issued by the Department of Environment and Resource Management

The anniversary day for the purposes of the Annual Return is: 1st May each year

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following places; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

Northern Peninsula Area Regional Council
(Bamaga Island, Injinoo, New Mapoon, Seisia Island and Umagico)
Adidi Street
Bamaga QLD 4876

Registered Activities & Places:

Deemed Development Approval No	Place	Located at	ERA
IPDE02200710 (FN0190)	Lot 7 Plan S053	Bamaga Sewage Treatment Plant Sebasio Street BAMAGA QLD 4876	**ERA 63** Sewage treatment Threshold **2(b)** - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP
IPDE02200710 (FN0190)	Lot 7 Plan S053	Bamaga Landfill Airport Road BAMAGA QLD 4876	**ERA 60** Waste disposal Threshold **2(a)** - operating a facility for disposing of, in a year, 50t to 2000t of waste under subsection (1)(b)
IPDE02200610 (FN0458)	Lot 89 plan S061	Bamaga Island Council Debot Lui Street BAMAGA QLD 4876	**ERA 21** Motor vehicle workshop operation - operating a workshop on a commercial basis or in the course of carrying on a commercial enterprise involving maintaining mechanical components, engine cooling radiators or body panels; spray-painting body panels; and detailing or washing relating to motor vehicles
IPDE02205610 (FN0663)	Lot 7, SP120089	Injinoo Landfill Bamaga- Injinoo Road INJINOO QLD 4876	**ERA 60** Waste disposal Threshold **2(b)** - operating a facility for disposing of, in a year, more than 2000t to 5000t of waste under subsection (1)(b)
IPDE02205410 (FN0232)		Bamaga Road INJINOO QLD 4876	**ERA 60** Waste disposal Threshold **1(a)** - operating a facility for disposing of, in a

			year, less than 50000t of waste under subsection (1)(a)
IPDE02205410 (FN0232)		Jardine Back Road INJINOO QLD 4876	**ERA 63** Sewage treatment Threshold **2(b)** - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP
IPDE02205410 (FN0232)		Pablo Street INJINOO QLD 4876	**ERA 43** Concrete batching - producing 200t or more of concrete or concrete products in a year, by mixing cement with sand, rock, aggregate or other similar materials
IPDE02206110 (FN0519)	Lot 7, SP120089	Umagico Road INJINOO QLD 4876	**ERA 21** Motor vehicle workshop operation - operating a workshop on a commercial basis or in the course of carrying on a commercial enterprise involving maintaining mechanical components, engine cooling radiators or body panels; spray-painting body panels; and detailing or washing relating to motor vehicles
IPDE02200510 (FN0230)	Lot 30 Plan S055	Bamaga-Seisia Road, NEW MAPOON QLD 4876	**ERA 63** Sewage treatment Threshold **2(b)** - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP
IPDE02200510 (FN0566)	Lot 30 Plan S055	Red Beach, NEW MAPOON QLD 4876	**ERA 60** Waste disposal Threshold **2(a)** - operating a facility for disposing of, in a year, 50t to 2000t of waste under subsection (1)(b)
IPDE02200310 (FN0520)	Lot 58, SO57	Massey Street UMAGICO QLD 4876	**ERA 21** Motor vehicle workshop operation - operating a workshop on a commercial basis or in the course of carrying on a commercial enterprise involving maintaining mechanical components, engine cooling radiators or body panels; spray-painting body panels; and detailing or washing relating to motor vehicles
IPDE02200210 (FN0231)	Lot 58, SO57	Massey Street UMAGICO QLD 4876	**ERA 18** Boilermaking or engineering Threshold **(a)** - carrying out the relevant activity for producing, in a year, 200t to 10000t of metal product
IPDE02200210 (FN0231)		Bamaga Road UMAGICO QLD 4876	**ERA 60** Waste disposal Threshold **2(a)** - operating a facility for disposing of, in a year, 50t to 2000t of waste under subsection (1)(b)

Ingrid Fomiatti Minnesma
Delegate
04-April-2011

REQUEST FOR STATUTORY APPROVAL:

SECTION s73F under the Environmental Protection Act 1994:

Applicant: Northern Peninsula Area Regional Council (NPARC)

Reg Certificate No: ENRE00436505

in respect of carrying out Environmental Relevant Activities at the following place(s):

Registered Activities & Places:

Deemed Development Approval No	Place	Located at	ERA
IPDE02200710 (FN0190)	Lot 7 Plan S053	Bamaga Sewage Treatment Plant Sebasio Street BAMAGA QLD 4876	**ERA 63** Sewage treatment Threshold **2(b)** - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP
IPDE02200710 (FN0190)	Lot 7 Plan S053	Bamaga Landfill Airport Road BAMAGA QLD 4876	**ERA 60** Waste disposal Threshold **2(a)** - operating a facility for disposing of, in a year, 50t to 2000t of waste under subsection (1)(b)
IPDE02200610 (FN0458)	Lot 89 plan S061	Bamaga Island Council Debot Lui Street BAMAGA QLD 4876	**ERA 21** Motor vehicle workshop operation - operating a workshop on a commercial basis or in the course of carrying on a commercial enterprise involving maintaining mechanical components, engine cooling radiators or body panels; spray-painting body panels; and detailing or washing relating to motor vehicles
IPDE02205610 (FN0663)	Lot 7, SP120089	Injinoo Landfill Bamaga- Injinoo Road INJINOO QLD 4876	**ERA 60** Waste disposal Threshold **2(b)** - operating a facility for disposing of, in a year, more than 2000t to 5000t of waste under subsection (1)(b)
IPDE02205410 (FN0232)		Bamaga Road INJINOO QLD 4876	**ERA 60** Waste disposal Threshold **1(a)** - operating a facility for disposing of, in a year, less than 50000t of waste under subsection (1)(a)
IPDE02205410 (FN0232)		Jardine Back Road INJINOO QLD 4876	**ERA 63** Sewage treatment Threshold **2(b)** - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP
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IPDE02200510 (FN0566)	Lot 30 Plan S055	Red Beach, NEW MAPOON QLD 4876	**ERA 60** Waste disposal Threshold **2(a)** - operating a facility for disposing of, in a year, 50t to 2000t of waste under subsection (1)(b)
IPDE02200310 (FN0520)	Lot 58, SO57	Massey Street UMAGICO QLD 4876	**ERA 21** Motor vehicle workshop operation - operating a workshop on a commercial basis or in the course of carrying on a commercial enterprise involving maintaining mechanical components, engine cooling radiators or body panels; spray-painting body panels; and detailing or washing relating to motor vehicles
IPDE02200210 (FN0231)	Lot 58, SO57	Massey Street UMAGICO QLD 4876	**ERA 18** Boilermaking or engineering Threshold **(a)** - carrying out the relevant activity for producing, in a year, 200t to 10000t of metal product
IPDE02200210 (FN0231)		Bamaga Road UMAGICO QLD 4876	**ERA 60** Waste disposal Threshold **2(a)** - operating a facility for disposing of, in a year, 50t to 2000t of waste under subsection (1)(b)

RECOMMENDATION:

Recommend the issue of Registration Certificate No. ENRE00436505 be granted due to the Amalgamation of Councils under section s73F of the *Environmental Protection Act 1994* relating to the above operations.

Endorsement:

Assessing Officer:	**Supervisor / Reviewer:**	**Delegate:**
Nicole Wells	**Accepted** / Refused	**Accepted** / Refused
Signed:	Signed:	Signed:
Date: 04-APRIL-2011	Date:	Date: 04-APRIL-2011