



Department of
**Environment and
Heritage Protection**

18-OCT-2016

To: CCIG SMI PTY LTD
PMB 22
MACKAY QLD 4740

Email: peter.nugent@holdingredlich.com

Our reference: 225297

Application details

I refer to the application that was received by the administering authority on 06-OCT-2016.

Land description: South Molle Island Resort Lot 227 Plan HR1825.

Decision

Your application has been approved and your environmental authority (reference EPPR00492813) is attached.

Should you have any further enquiries, please contact Kim Christeson on telephone 1300 130 372, option 4.

Yours sincerely

A handwritten signature in black ink, appearing to read 'AS', enclosed within a rectangular box.

Signature

18/10/2016

Date

Anthony Schmid
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Kim Christeson
Permit and Licence Management
Department of Environment and
Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5875
Email: palm@ehp.qld.gov.au
Website www.ehp.qld.gov.au
ABN 46 640 294 485

Enclosed

Permit - environmental authority (reference EPPR00492813)

Permit¹

Environmental Protection Act 1994

Environmental authority

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

Permit¹ number: EPPR00492813

Environmental authority takes effect on 18-OCT-2016.

The anniversary date of this environmental authority remains 13-MARCH. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
CCIG SMI PTY LTD	Unit 6 7 Hudson Road ALBION QLD 4010

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
63-(1b)(ii) Sewage treatment >100 to 1500EP - no IT or IR	South Molle Island Resort - Lot 227 Plan HR1825

Additional information for applicants

Environmentally relevant activities

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

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

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

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



Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

Anthony Schmid
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

18/10/2016

Date

Enquiries:
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Permit and Licence Management
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Protection
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Obligations under the *Environmental Protection Act 1994*

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

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

Conditions of environmental authority

SCHEDULE A - GENERAL CONDITIONS

Access to Copy of Environmental Authority

- (A1) A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.

Records

- (A2) Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five 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

- (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

- (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.
- (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.

Competency

- (A6) The licensee shall ensure that the operation and maintenance of sewage treatment and water supply treatment plants is carried out by or under the supervision of a person competent to operate and maintain the sewage treatment and water supply treatment plants.

Site-Based Management Plan

- (A7) The holder of this environmental authority must:
- (a) develop and implement a Site-Based Management Plan which provides for the following functions:
 - (i) Routine operating procedures to prevent or minimise environmental harm; and
 - (ii) Maintenance practices and procedures; and
 - (iii) Contingency plans and emergency procedures to deal with foreseeable risks and hazards; and
 - (iv) Monitoring of the release of contaminants into the environment; and
 - (v) Assessment of the environmental impact of any releases of contaminants into the environment; and
 - (vi) Handling of environmental complaints; and
 - (vii) Keeping and production of environmental records and reports; and
 - (viii) Staff training and awareness of environmental issues.
 - (b) on or before **12 months from the day this authority takes effect**, have completed and implemented the Site-Based Management Plan.
- (A8) A copy of the Site-Based Management Plan must be kept in a location readily accessible to personnel carrying out the activity.

END OF CONDITIONS FOR SCHEDULE A

SCHEDULE B

Nil Conditions

END OF CONDITIONS FOR SCHEDULE B

SCHEDULE C - WATER

Release of Contaminants to Waters

- (C1) The only contaminants permitted to be released from the licensed place at the release point W1 are **sewage treatment effluents** from the sewerage treatment plant.
- (C2) The discharge of treated sewerage effluent to waters of the Great Barrier Reef must be minimised at all times by irrigation to land.

Release Points

- (C3) 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 the contaminants and sources at the locations listed below:

W1 - To waters described as the Molle Channel, Pacific Ocean, at a location described as approximately 400 metres west of the treatment plant.

Release Point Details

- (C4) The discharge point serving release point number/s W1 must be submerged such that the top of the outfall pipe is at least below Low Water Datum.
- (C5) All contaminants from release point number/s W1 must be released through a suitable diffuser to achieve a minimum initial dilution of 100:1.

Quantity of Contaminants Released

- (C6) The total quantity of contaminants released from release point number/s W1 during any dry weather day must not exceed 400 cubic metres and during a wet weather day must not exceed 1200 cubic metres.
- (C7) The release must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter.

Quality Characteristics of Release to Waters

- (C8) The release of contaminants to waters must comply, at the sampling and in situ monitoring point/s specified in Schedule H Table 1, with each of the limits specified in schedule C Table 1 for each quality characteristic.
- (C9) Where existing sewerage treatment plants are treating effluent to secondary standard only and are discharging to waters of or leading to the GBR Marine Park or World Heritage Area, compliance with the levels specified in Schedule C Table 1 must be achieved by a date no later than 1 March 2002. The holder of this environmental authority is required to submit a draft EMP by 1 July 1998 detailing the procedure to achieve compliance by the date nominated.

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SCHEDULE C TABLE 1 - RELEASE QUALITY CHARACTERISTIC LIMITS

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand	15 mg/L	long term 80th percentile compliance
5-day Biochemical Oxygen Demand	23 mg/L	short term 80th percentile compliance
5-day Biochemical Oxygen Demand	45 mg/L	maximum
Suspended Solids.	20 mg/L	long term 80th percentile compliance
Suspended Solids.	30 mg/L	short term 80th percentile compliance
Suspended Solids.	60 mg/L	maximum
pH	6.5 - 8.5	range
Dissolved Oxygen	2 mg/L	minimum
Ammonia	1(mg/l)	maximum.
Total Nitrogen	5(mg/l)	maximum.
Total Phosphorus as P.	1(mg/l)	maximum.
Free Residual Chlorine	0.7(mg/L)	maximum
Faecal Coliforms(Organisms/100mL)	1000 colonies per 100 millilitres	median ⁽¹⁾
Faecal Coliforms (Organisms/100mL)	4000 colonies per 100 millilitres	80th percentile ^(1,2)

Notes: (1) *Median and 80th percentiles must be based on the results of at least five consecutive samples, individual samples may be collected at intervals of not less than thirty minutes for the purpose of measuring licence compliance. The minimum frequency of testing required to be carried out by the licensee is at least once in each quarter.*

(2) *"80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the limit for any more than one out of five consecutive samples*

(C10) Where compliance for discharge to waters is not immediately achievable with Schedule C Table 1, the interim values in Schedule C Table 1B must be complied with within the timeframe required by the EMP required by C7 above. The requirement to prepare an EMP will be supported by a Section 74 notice which will require staged improvements in the nutrient reduction of discharges to waters. ✓

SCHEDULE C TABLE 1B - RELEASE QUALITY CHARACTERISTIC LIMITS

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand	15 mg/L	long term 80th percentile compliance
5-day Biochemical Oxygen Demand	23 mg/L	short term 80th percentile compliance
5-day Biochemical Oxygen Demand	45 mg/L	maximum
Suspended Solids.	20 mg/L	long term 80th percentile compliance
Suspended Solids.	30 mg/L	short term 80th percentile compliance
Suspended Solids.	60 mg/L	maximum
pH	6.5 - 8.5	range
Dissolved Oxygen	2 mg/L	minimum
Ammonia	1(mg/l)	maximum.
Total Nitrogen	10(mg/l)	maximum.
Total Phosphorus as P.	5(mg/l)	maximum.
Free Residual Chlorine	0.7(mg/L)	maximum
Faecal Coliforms(Organisms/100mL)	1000 colonies per 100 millilitres	median ⁽¹⁾
Faecal Coliforms (Organisms/100mL)	4000 colonies per 100 millilitres	80th percentile ^(1,2)

- Notes:** (1) *Median and 80th percentiles must be based on the results of at least five consecutive samples, individual samples may be collected at intervals of not less than thirty minutes for the purpose of measuring licence compliance. The minimum frequency of testing required to be carried out by the licensee is at least once in each quarter.*
- (2) *"80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the limit for any more than one out of five consecutive samples.*

Pump Stations

- (C11) The only pump stations permitted to release contaminants to any waters are those listed below at the corresponding overflow locations:

Pump Station Description	Location
Sewage pump station	Near tennis courts
Excess effluent storage tanks	At package plant site

- (C12) 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. Pump failure alarms must be detectable by the maintenance staff, in such a manner as to facilitate compliance with general environmental duty.
- (C13) The management of pump station overflows including environmental risk, operation and maintenance, and the need for improvements together with a schedule for the completion of works shall be included within the IEMS specified in condition A7.
- (C14) The pump station overflows referred to in condition C11 shall be screened to prevent the discharge of gross solids.

END OF CONDITIONS FOR SCHEDULE C

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SCHEDULE D -STORMWATER MANAGEMENT

- (D1) The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
- (D2) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. 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.

Pond conditions

- (D3) All ponds used for the storage or treatment of contaminants or wastes must be installed and maintained to prevent any discharge through the bed or banks of the pond from causing environmental harm or environmental nuisance in any waters (including groundwaters).

END OF CONDITIONS FOR SCHEDULE D

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SCHEDULE E- LAND APPLICATION

Release of Contaminants to Land

- (E1) The holder of this environmental authority must maximise the reuse of effluent from the sewerage treatment plant on the lawns, parks, and gardens of the resort.

Control of Sewage Effluent Disposal to Land

- (E2) The irrigation of gardens with treated sewage effluent must be carried out in such a manner 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 outside the effluent disposal area approved under this schedule; and
 - (f) the infiltration of effluent beyond the plant root zone is minimised and groundwater contamination is avoided.
- (E3) Pipelines and fittings for the release of contaminants to land must be clearly identified. Standard water taps, hoses and cocks must not be fitted to contaminant release pipelines, and the contaminant release system must not be connected to other service pipelines. Lockable valves or removable handles must be fitted to the contaminant release pipelines where there is public access to the contaminant release areas.
- (E4) Notices warning the public not to use or drink the release of contaminants to land must be prominently displayed and must be maintained in a visible and legible condition.

Quality of Contaminants Released to Land from Sewage Treatment Plants

- (E5) The contaminant/s released must comply, at the sampling and in-situ measurement point/s specified in Schedule H Table 2, with each of the release limits specified in schedule E Table 1 for each quality characteristic.

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SCHEDULE E TABLE 1 - RELEASE QUALITY CHARACTERISTIC LIMITS

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand	15 mg/L	long term 80th percentile compliance
5-day Biochemical Oxygen Demand	23 mg/L	short term 80th percentile compliance
5-day Biochemical Oxygen Demand	45 mg/L	maximum
Suspended Solids.	20 mg/L	long term 80th percentile compliance
Suspended Solids.	30 mg/L	short term 80th percentile compliance
Suspended Solids.	60 mg/L	maximum
Faecal Coliforms(Organisms/100mL)	1000 colonies per 100 millilitres	median ⁽¹⁾
Faecal Coliforms (Organisms/100mL)	4000 colonies per 100 millilitres	80th percentile ^(1,2)

- Notes:** (1) *Median and 80th percentiles must be based on the results of at least five consecutive samples, individual samples may be collected at intervals of not less than thirty minutes for the purpose of measuring licence compliance. The minimum frequency of testing required to be carried out by the licensee is at least once in each month.*
- (2) *"80th percentile" for this quality characteristic means that the measured values of the quality characteristic must not be greater than the limit for any more than one out of five consecutive samples.*

END OF CONDITIONS FOR SCHEDULE E

SCHEDULE F

Nil Conditions

END OF CONDITIONS FOR SCHEDULE F

SCHEDULE G - WASTE MANAGEMENT

General

(G1) The holder of this environmental authority must not:

- (i) allow waste to burn or be burned at or on the licensed place, except for Fire Training; nor
- (ii) remove waste from the licensed place and burn such waste elsewhere.

Off Site Movement

(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 monitor and keep records of 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.

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 releases of contaminants from operations at the licensed place must be recorded and kept 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 "Not identified" 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 the complaint investigation and signature of responsible person.

Monitoring of Contaminant Releases to Waters

- (H2) The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Schedule H Table 1.

Monitoring of Contaminant Releases to Land

- (H3) The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Schedule H Table 2.

Sampling and Monitoring Point Details

- (H4) All samples taken for the purposes of determining the quality of contaminants released to waters or land shall be grab samples.
- (H5) All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
- (H6) Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in the Water Schedule of this environmental authority must be undertaken at the sampling and in situ monitoring point(s) described as W1.
- (H7) All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment Water Quality

Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available

Monitoring of Volume of Release

- (H8) The daily quantity of contaminants released must be determined by an accepted industry method.
- (H9) Records must be kept of the results of all determinations of the daily quantity of contaminants released to waters.

Noise Monitoring

- (H10) For the purposes of investigating complaints, and where directed to by the administering authority, monitoring and recording of the noise levels from the activity/activities must be undertaken for the following descriptions, characteristics and conditions:
 - (a) $L_{Amax, Adj T}$;
 - (b) $L_{Aeq, T}$ or $L_{A90, T}$;
 - (c) $L_{AN,t}$ (where N equals statistical levels of 1, 10, 50, 90 and 99);
 - (d) The level and frequency of occurrence of impulsive or tonal noise;
 - (e) Atmospheric conditions including temperature, relative humidity and wind speed and direction; and
 - (f) Effects due to extraneous factors such as traffic noise.
- (H11) The method of measurement and reporting of noise levels must comply with the Department of Environment Noise Measurement Manual, second edition, March 1995, or more recent additions or supplements to that document as become available.

Report Submission

- (H12) The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the Annual Return.

Notification of Emergencies and Incidents

- (H13) As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.
- (H14) The notification of emergencies or incidents as required by condition number H13 must include but not be limited to the following:
 - (i) the name of holder of the environmental authority;
 - (ii) the location of the emergency or incident;
 - (iii) the number of the environmental authority;

- (iv) the name and telephone number of the designated contact person;
- (v) the time of the release;
- (vi) the time the holder of the environmental authority became aware of the release;
- (vii) the suspected cause of the release;
- (viii) the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and
- (ix) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.

Schedule H Table 1
Required Release Point Determinations

DETERMINATION REQUIRED	RELEASE POINT NUMBERS	FREQUENCY
5-day Biochemical Oxygen Demand.	W1	monthly
Suspended Solids.	W1	monthly
pH.	W1	daily
Dissolved Oxygen.	W1	daily
Free Residual Chlorine.	W1	daily
Faecal Coliforms. (Organisms/100 ml)	W1	quarterly
Ammonia (mg/l)	W1	monthly
Total Nitrogen (mg/l)	W1	monthly
Total Phosphorus as P. (mg/l)	W1	monthly

Schedule H - Table 2

QUALITY CHARACTERISTIC DETERMINATION	MONITORING POINTS	FREQUENCY
5-day Biochemical Oxygen Demand.	Prior to chlorination	monthly
Suspended Solids.	Prior to chlorination	monthly
pH.	Prior to chlorination	daily
Dissolved Oxygen.	At the effluent collection well	daily
Free Residual Chlorine.	Chlorine Contact Tank Outlet	monthly
Faecal Coliforms. (Organisms/100 ml)	Chlorine Contact Tank Outlet	quarterly

END OF CONDITIONS FOR SCHEDULE H

SCHEDULE I - DEFINITIONS

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

- (I1) "mg/L" means milligrams per litre.
- (I2) "long term 80th percentile" is the value which is exceeded by twenty (20) percent of the values for the characteristic in using twelve (12) consecutive monthly results for the characteristic.
- (I3) "short term 80th percentile" means that not more than one (1) of the measured values of the quality characteristic are to exceed the stated release limit for five (5) consecutive samples where the consecutive samples are taken over a five month period, and the time interval between the taking of each consecutive sample is not less than twenty-eight days.
- (I4) "short term 60th percentile" means that not more than one (2) of the measured values of the quality characteristic are to exceed the stated release limit for five (5) consecutive samples where the consecutive samples are taken over a five month period, and the time interval between the taking of each consecutive sample is not less than twenty-eight days.
- (I5) "daily" refers to a normal working day.
- (I6) "grab" sample means one sample collected at any point in time.
- (I7) "median" means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.
- (I8) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
- (I9) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.
- (I10) "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.

Noise Definitions.

- (I11) " $L_{Amax,adj,T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.
- (I12) "Background noise level" means either:

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- $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
- $L_{Avg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.
- (I13) “ $MaxL_{pA,T}$ ” means the maximum A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.
- (I14) “noise sensitive place” means -
- (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
 - (b) a motel, hotel or hostel; or
 - (c) a kindergarten, school, university or other educational institution; or
 - (d) a medical centre or hospital; or
 - (e) a protected area; or
 - (f) a public park or gardens.
- (I15) “commercial place” means a place used as an office or for business or commercial purposes.

END OF CONDITIONS FOR SCHEDULE I

END OF PERMIT