

Environmental authority

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

Permit¹ number: EPPR00492413

Environmental authority takes effect on 22-OCT-2013.

The anniversary date of this environmental authority is the 2nd March. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
HK Sino Pty Ltd T/A ATF Gem Air Village Caravan Park	4 Village Road WILLOWS QLD 4702

Environmentally relevant activity and location details

Environmentally relevant activity	Location
63-(1a)(i) Sewage treatment >21 to 100EP - IT or IR	GEM-AIR VILLAGE CARAVAN PARK - Lot 2 Plan MPH30559, Lot 4 Plan MPH30559, Lot 1 Plan MPH34463 and Lot 3 Plan MPH30559

Additional information for applicants

Environmentally relevant activities

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

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

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

Contaminated land

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

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

Linda Gorman
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

22/10/2013

Date

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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

Location: GEM-AIR VILLAGE CARAVAN PARK

Lot 2 Plan MPH30559, Lot 4 Plan MPH30559, Lot 1 Plan MPH34463 and Lot 3 Plan MPH30559

Relevant activity:

63-(1a)(i) Sewage treatment >21 to 100EP - IT or IR

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

Conditions of the development approval

This development approval consists of the following schedules of conditions relevant to various issues:

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

This development approval authorises the ERA. It does not authorise environmental harm unless a concurrence agency condition within this development approval explicitly authorises that harm. Where there is no condition or the development approval is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

- Schedule A - Activity
- Schedule B - Air
- Schedule C - Water
- Schedule D - Noise
- Schedule E - Waste
- Schedule F - Land
- Schedule G - Community
- Schedule H - Definitions
- Schedule I - Maps / Plans

Schedule A - Activity

Prevent and /or minimise likelihood of environmental harm

- (A1-1) In carrying out the environmentally relevant activities, you must take all reasonable and practicable measures to prevent and / or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner in accordance with the conditions of this approval.

NOTE: This approval authorises the environmentally relevant activity. It does not authorise environmental harm unless a condition contained within this approval explicitly authorises that harm. Where there is no condition or the approval is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

Maintenance of measures, plant and equipment

- (A2-1) The holder must:
- install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and
 - maintain such measures, plant and equipment in a proper and efficient condition; and
 - operate such measures, plant and equipment in a proper and efficient manner.
- (A2-2) Pipelines and fittings associated with the effluent treatment system must be polyethylene pipe, be clearly identified and in accordance with AS 1547.
- (A2-3) A person(s) with the appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment must carry out the daily operation of the wastewater treatment system and pollution control equipment.

- (A2-4) An appropriate spill kit, response plan, personal protective equipment and relevant operator instructions / emergency procedures guide for the management of wastes and chemicals associated with the ERA must be kept at the site.
- (A2-5) Where practical low phosphate and nitrate chemicals and cleaning products must be used within the licensed premises.
- (A2-6) The "K.E.W.T" Channel must be maintained according to the manufacturers specifications.

Site based management plan

- (A3-1) From commencement of the activity, implement the Site Based Management Plan (SBMP) that identifies the actual and potential release of ALL contaminants, their subsequent environmental impacts and all corrective and preventive measures that will be taken to prevent and / or minimise the likelihood of environmental harm. The SBMP must also provide for the review and "continual improvement" in the overall environmental performance of all Environmentally Relevant Activities that are carried out.

Notification

- (A4-1) Notify the administering authority as soon as practicable when the release of contaminants is not in accordance with the conditions of this document or any event where environmental harm may be threatened.
- (A4-2) Written advice of the following information must be provided within fourteen (14) days following any event as identified in condition number (Notification A4-1):
- the location of the event;
 - the time of the event;
 - the time the holder of the environmental authority became aware of the event;
 - the suspected cause of the event;
 - a description of the resulting effects of the event;
 - 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.

Records

- (A5-1) Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.

END OF CONDITIONS FOR SCHEDULE A

Schedule B - Air

Nuisance

- (B1-1) Prevent the release of odour, dust and/or particulate matter or fumes which cause or are likely to cause a nuisance. Nuisance includes the release of contaminants that are likely to be offensive to a person or a nuisance in the opinion of an authorised person.

Dust nuisance

- (B2-1) Prevent the release of odour, dust and/or particulate matter or fumes which cause or are likely to cause a nuisance. Nuisance includes the release of contaminants that are likely to be offensive to a person or a nuisance in the opinion of an authorised person.

- (B2-3) Dust is not considered to be a nuisance under condition B1 if monitoring shows that dust and / or particulate matter did or does NOT exceed the following limits at the boundary of any affected dust sensitive place:
- Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10 of 1991; AND
 - A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at the boundary of any affected dust sensitive place downwind of the premises to which this development approval relates, when monitored in accordance with:
 - Australian Standard AS 3580.9.6 "Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet - Gravimetric method"; or
 - any alternative method of monitoring PM10 which may be permitted by the "Air Quality Sampling Manual" as published from time to time by the administering authority..

END OF CONDITIONS FOR SCHEDULE B

Schedule C - Water

Release to Waters

- (C1-1) Contaminants must not be released from the licensed place to any waters.

Stormwater Management

- (C2-1) Prevent the release of stormwater runoff that has been in contact with any contaminants at the site to any waters.
- (C2-2) Suitable banks and/or diversion drains must be installed and maintained to exclude stormwater runoff from entering any effluent treatment and / or irrigation areas.

Release to waters

- (C3-1) Contaminants must not be released from the site to any waters or the bed and banks of any waters.

END OF CONDITIONS FOR SCHEDULE C

Schedule D - Noise and vibration

Noise nuisance

- (D1-1) 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.

Noise monitoring

- (D2-1) When requested by the Administering Authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:

L_A 10, adj, 10 mins

L_A 1, adj, 10 mins

the level and frequency of occurrence of impulsive or tonal noise;

atmospheric conditions including wind speed and direction;

effects due to extraneous factors such as traffic noise; and

location, date and time of recording.

- (D2-2) The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.

Noise is NOT considered to be a nuisance under condition D1 if monitoring shows that noise does NOT exceed the following levels in the time periods specified in Schedule D Table 1.

Schedule D - TABLE 1 - NOISE LIMITS (Noise Sensitive Place)

Noise Level dB(A) measured as	Noise measured at a "Noise Sensitive Place"					
	Monday to Saturday			Sundays and public holidays		
	7am - 6pm	6pm -10pm	10pm - 7am	9am - 6pm	6pm -10pm	10pm - 9am
L_A 10, adj, 10mins	b/g + 5	b/g + 5	b/g + 0	b/g + 5	b/g + 5	b/g + 0
L_A 1, adj, 10mins	b/g + 10	b/g + 10	b/g + 5	b/g + 10	b/g + 10	b/g + 5

END OF CONDITIONS FOR SCHEDULE D

Schedule E - Waste

Waste Removal

- (E1-1) Sewage sludge from the primary tank must be pumped out and removed by a regulated waste transporter licensed to remove such waste under the *Environmental Protection Act 1994*.
- (E1-2) All regulated waste removed from the site must be removed by a person who holds a current authority to transport such waste under the provisions of the *Environmental Protection Act 1994*.

(E1-3) Records must be kept for five years, and must include the following information:

- date of pickup of waste;
- description of waste;
- cross reference to relevant waste transport documentation;
- quantity of waste;
- origin of the waste;
- destination of the waste; and
- intended fate of the waste, for example, type of waste treatment, reprocessing or disposal.

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

END OF CONDITIONS FOR SCHEDULE E

Schedule F - Land

Land disposal

(F1-1) The only contaminants permitted to be released to the area described as Lot 1 Plan MPH34463, Lot D Plan AP11342, lot 2 Plan MPH30559, Lot 3 Plan MPH30559 and Lot 4 Plan MPH30559, Parish of Woodbine, County of Plantagenet are treated effluents in compliance with the levels stated in Schedule F Table 1..

Schedule F - Table 1 (Release limits - 'Land')

Quality characteristics	Release Limit		
	Minimum	50th Percentile	Maximum
5 Day BOD			20 mg/L
PH	6.0		8.5
E-Coli			<100cfu / 100ml
Total N		10 mg/L	40 mg/L
Total P		5 mg/L	8 mg/L

(F1-2) Conduct and keep records of a monitoring program of contaminant releases from the final treated effluent holding tank, of the treatment plant, at the monitoring points, frequency, and for the parameters specified in Schedule F Table 2.

(F1-3) During the "off-season" when visitor number drop below 21 equivalent persons, or less that 11 sites are occupied, water quality monitoring of the final treatment tank is not required.

(F1-4) The holder must take measures to restrict public access to the sewage treatment process.

Schedule F Table 2

Quality Characteristic	Unit	Frequency
5 day BOD	Mg / L	six monthly
pH	range	monthly
E-Coli	Cfu / 100ml	monthly
Nutrients (total N, Total P)	Mg / L	Six monthly
Visitor number	persons	weekly

- (F1-5) The daily volume of contaminants released to land must be determined or estimated by an appropriate method, for example a flow meter, and records kept of such determinations and estimates.

Irrigation and water reuse

- (F2-1) The holder of this environmental authority must establish and maintain high nitrogen dependent gardens and plantings at the licensed place to which the treated effluent must be irrigated.
- (F2-2) Treated effluent may be used for the washing of rocks and fossicking implements during the fossicking process.
- (F2-3) Irrigation of effluent must not result in runoff beyond the boundary of the licensed place or into a waterway.
- (F2-4) Irrigation of effluent within the reed bed sand filter section of the sewage treatment system must not result in runoff into a waterway or seepage to groundwater.
- (F2-5) The irrigation of treated effluent must be carried out in a sustainable manner such that::
- vegetation is not damaged;
 - soil erosion and soil structure damage is avoided;
 - there is no surface ponding of effluent;
 - percolation of effluent beyond the plant root zone is minimised;
 - the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and
 - the quality of ground water is not adversely affected.
- (F2-6) Notices must be prominently displayed on any effluent irrigation area warning the public that the area is irrigated with effluent and not to use or drink the effluent. These notices must be maintained in a visible and legible condition.
- (F2-7) Written warnings must be provided to members of the public informing that the fossicking water they are handling is treated effluent and not to drink the wastewater.
- (F2-8) The surface irrigation system on Lot D Plan AP11342 must be designed and installed in accordance with Australian Standard 1547.
- (F1-9) When conditions prevent the irrigation of treated effluent to land alternative measures must be taken to store treated effluent.

Schedule G - Community

Complaint response

- (G1-1) All complaints received must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the administering authority on request.
- (G1-2) In consultation with the administering authority, cooperate with and participate in any community environmental liaison committee established in respect of either the site specifically, or the industrial estate where the site is located.

END OF CONDITIONS FOR SCHEDULE G

Schedule H - Definitions

Words and phrases used throughout this licence or development approval are defined below:

Where a definition for a term used in this approval is sought and the term is not defined within this approval the definitions provided in the *Environmental Protection Act 1994*, its regulations, and Environmental Protection Policies shall be used.

Word Definitions

"administering authority" means the Environmental Protection Agency or its successor.

"you" means the holder of this Environmental Authority or owner / occupier of the land which is the subject of this Development Approval.

"site" means the place to which this environmental authority relates or the premises to which this development approval relates.

"authorised place" means the place authorised under this environmental authority/development approval for the carrying out of the specified environmentally relevant activities.

"this authority" means this environmental authority/development approval.

"authority" means level 1 licence (without development approval), or level 1 approval (without development approval), or level 2 approval (without development approval) under the *Environmental Protection Act 1994*.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*

"dust sensitive place" means -

- a dwelling, mobile home or caravan park, residential marina or other residential place;
 - a motel, hotel or hostel;
 - a kindergarten, school, university or other educational institution;
 - a medical centre or hospital;
 - a protected area;
 - a park or gardens; or
 - a place used as an office or for business or commercial purposes.
- and includes the curtilage of any such place.

"odour sensitive place" has the same meaning as a "dust sensitive place"

"dwelling" means any of the following structures or vehicles that is principally used as a residence-

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

- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

"noxious" means harmful or injurious to health or physical well being.

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

"nuisance sensitive place" includes -

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the Nature Conservation Act 1992, the Marine Parks Act 1992 or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- a place used as a workplace, an office or for business or commercial purposes.
and includes a place within the curtilage of such a place reasonably used by persons at that place.

" $L_{A, 10, \text{adj}, 10 \text{ mins}}$ " means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

" $L_{A, 1, \text{adj}, 10 \text{ mins}}$ " means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response

" $L_{A, \text{max adj}, T}$ " means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

"noise affected premises" means a "noise sensitive place" or a "commercial place"

"noise sensitive place" means -

- a dwelling, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area; or
- a park or gardens.
and includes the curtilage of such place.

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

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

- is clearly audible to, or can be felt by, an individual; and
- 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.

"protected area" means -

- a protected area under the Nature Conservation Act 1992; or
- a marine park under the Marine Parks Act 1992; or

- a World Heritage Area.

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

"50th percentile" means not more than three (3) of the measured values of the quality characteristic are to exceed the stated release limit for any six (6) consecutive samples for a release/monitoring point at any time during the environmental activity(ies) works.

"80th percentile" means not more than one (1) of the measured values of the quality characteristic is to exceed the stated release limit for any five (5) consecutive samples for a sampling point at any time during the environmental activity(ies) works

"dredge spoil" means material taken from the bed or banks of waters by using dredging equipment or other equipment designed for use in extraction of earthen material.

"land" in the "land schedule" of this document means land excluding waters and the atmosphere.

"mg/L" means milligrams per litre.

"NTU" means nephelometric turbidity units

"regulated waste" means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 1998 (whether or not it has been treated or immobilised), and includes:

- for an element - any chemical compound containing the element; and
- anything that has contained the waste.

"licensed vehicle" means a vehicle authorised to be used under the licence to transport regulated waste.

"registered vehicle" means "licensed vehicle"

"clinical waste" means waste that has the potential to cause disease including, for example, the following:

- animal waste;
- discarded sharps;
- human tissue waste;
- laboratory waste.

"infectious waste" means "clinical waste"

"vibration sensitive place" means a noise sensitive place or a commercial place.

"annual return" means the return required by the annual notice (under section 316 of the Environment Protection Act, 1994) for the section 86(2) licence that applies to the development approval.

END OF DEFINITIONS FOR SCHEDULE H

Schedule I - Maps / Plans

There are no attachments to this schedule.

END OF CONDITIONS FOR SCHEDULE I

END OF PERMIT