City of Wagga Wagga

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Liquid Trade Waste Application

High Risk & Large Dischargers, Volumes greater than 20kL/day, or where NSW Office of Water concurrence is required

This application form is for businesses that wish to discharge liquid trade waste to the sewerage system. Complete all pages. Please include all details as requested. When completed, please lodge this form with the council, along with attachments.

Note: Category 3 charges are applicable to this application.

Applicant Details

Business Name _____

Site Address _____

Suburb _____

Lot & D.P _____

Property Owners Name/s _____

Phone (H) _____ Phone (W) _____

Applicants Name (if different to above) _____

Applicants Address _____

Phone (H) _____ Phone (M) _____

Occupiers Name (if Different to above) _____

Application is to conform with the requirement of Wagga Wagga City Council

LIQUID TRADE WASTE POLICY (POL 006)

http://www.wagga.nsw.gov.au/resources/documents/POL_006_Liquid_Trade_Waste_ADOPTED_090727.pdf

Industrial Discharges

The following substances are prohibited from being discharged to the sewerage system:

- Organochlorine weedicides, fungicides, pesticides, herbicides and substances of a similar nature and/or wastes arising from the preparation of the substances
- Organophosphorus pesticides and/or waste arising for the preparation of these substances
- Any substances liable to produce noxious or poisonous vapours in the sewage system
- Organic solvents and mineral oil
- Any flammable or exploaive substances
- Discharges from Bulk Fuel Depots
- Chromate from cooling towers
- Natural or synthetic resins, plastic monomers, synthetic adhesives, rubber and plastic emulsions
- Rain, surface, seepage of subsoil water, unless specifically permitted
- Solid matter
- Any substance assessed as not suitable to be discharged to the sewerage system
- Waste liquids that contain pollutants at concentrations which inhibit the sewerage treatment process refer *National Wastewater Source Management Guideline, July 2008, WSAA*
- Any other substances listed in a relevant regulation

Business Processes Description

Please include all details as requested (if sufficient space as clearly labelled appendices), and make sure you read the section on substances that must not be discharged to the sewerage system.

Type of Business: _____

Name of processes generating liquid trade waste:

(a) _____

(b) _____

(c) _____

(d) _____

(e) _____

(f) _____

Type and Quantity of raw materials processed

Description of Waste

- List of all expected pollutants including substances contained in wash down detergents, boiler and cooling water and other sources.
- Expected maximum and average concentrations of pollutants
- Sample analysis results of the proposed waste

Note: The sample analysis tests shall be carried out by a NATA approved laboratory with accreditation for analysis of the nominated pollutants in the application of a laboratory acceptable to DWE.

Acceptable means of sample analysis data collection:
Sample analysis results from a similar existing process Collection of the proposed waste from a trail pre-treatment plant Stand alone pre-treatment – manufacturers waste quality expectations of a similar installation.

Plans & Specifications

Plans – application to be accompanied by plans showing:

- Details of the proposed liquid waste treatment process
- Details of pipes, floor drainage used to convey the effluent
- A full schematic layout of the proposed/existing waste pre-treatment facilities for liquid trade waste prior to discharge to the sewerage system
- Flow diagram and hydraulic profile of proposed treatment apparatus

Details of existing/proposed waste treatment and equipment

_____

_____

_____

Specifications

- Capacity/dimensions, material of construction and lining, operation and maintenance of all pits, tanks, dosing systems, pumps etc
- Details of the integrity of the pH correction system (diversion system, recording, alarms location, failsafe, tamperproof)
- A copy of Trade Waste Consultant Report (If Applicable)
- Any additional details as requested by the local water utility
- A due diligence program and contingency plan

Pollutant Details

Attach details and supporting documentation of data collection method.

When detailing the nominated pollutants where there is no possibility of discharge to the sewerage system because none of the substances is stored or used at the premises, write “NIL”

(the local water utility may add to this list as required)

Parameter	Acceptance Guideline Limits + Mg/L	Average Mg/L	Maximum Mg/L
BOD_5 and Suspended Solids	Normally, approved at 300mg/L each. Concentration up to 600mg/L and in some cases higher concentration for low mass loadings may be acceptable of the treatment works has sufficient capacity and odour will not be a problem		
COD	Normally, not to exceed BOD_5 by more then three times. This ratio is given as a guide only to prevent the discharge of non biodegradable waste		
Total dissolved solids	Up to 4000 mg/L may be accepted. The acceptance limit may vary depending on an effluent disposal option and is subject to a mass load limit		
Temperature	Less than 38 degrees		
pH	Within the range 7.0 to 9.0		
Oil and Grease	100 mg/L of the volume of the discharge does not exceed 10% of the design capacity of the treatment works, and 50 mg/L if the volume is greater then 10%		
Detergents	All industrial detergents are to be biodegradable. A limit on the concentration of 50mg/L (as MBAS) may be imposed on large liquid trade wastes.		
Colour	No visible colour when the waste is diluted to the equivalent dilution afforded by domestic sewerage flow		
Radioactive substances	The discharge must comply with the Radiation Control Act 1990		

Acceptance Guidelines for inorganic compounds

Parameter	Acceptance Guideline Limited mg/L	Average mg/L	Maximum mg/L
Ammonia (as N)	50		
Boron	5		
Bromine	5		
Chlorine	10		
Cyanide	1		
Fluoride	20		
Nitrogen (total Kjeldahl)	100		
Phosphorus	20		
Sulphate (SO_4)	500		
Sulphate (s)	1		
Sulphate (as SO_3)	15		

*Council may vary acceptance limits having regard to the discharge characteristics and capacity of its sewerage system

Acceptance guidelines for organic compounds

Parameter	Acceptance Guideline Limits mg/L	Average mg/L	Maximum mg/L
Benzene	0.04		
Toluene	0.5		
Ethyl benzene	1		
Xylene	1		
Formaldehyde *Acceptance of chemical toilet waste which contains formaldehyde will be assessed on the available dilution in the sewerage system	30*		
Phenolic compounds (exceot pentachlorophenol	5		
Petroleum hydrocarbons (non flammable)	30		
Pesticides (general)	0.1		
Pesticides (organochlorins)	Nil		
Pesticides (organochlorins)	Nil		
Polynuclear Aromatic Hydrocarbons (PAH)	5		

Acceptance guideline for metals*

For small discharges, a daily mass load criteria may be used other than the concentration limit. An upper daily mass load can be applied to a large liquid waste discharge in addition to the concentration limit.

Parameter	Acceptance Guideline Limits mg/L	Allowed daily mass limit g/d	Average mg/L	Maximum mg/L
Aluminium	100	-		
Arsenic	1	2		
Cadmium	1	6		
Chromium	3	15		

- Where hexavalent chromium (Cr6*) is present in the process water, pre treatment will be required to reduce it to the trivalent state (Cr3*) prior to discharge onto the sewer. Discharge of hexavalent chromium compounds used inhibitors in cooling towers is **not permitted**.

Cobalt	5	15		
Copper	5	15		
Iron	100	-		
Lead	1	6		
Manganese	10	30		
Mercury	1	0.05		
Molybdenum	5	30		
Nickel	3	15		
Selenium	1	15		
Silver	2#	6		
Tin	5	15		
Zinc	5	15		

* Council may vary the acceptance limits having regard to the discharge characteristics and capacity of its sewerage system.

this limit is applicable for large discharges. The concentration of silver in the photo processing waste where a balancing tank is provided is not to exceed 5 mg/L.

Flow Details

Non sewerage discharges/wastes

Details of management arrangement of waste streams/wastes that are not permitted or not intended to be discharged to the sewerage system.

Description of flow

Maximum Daily Discharge (kL/day)

Maximum Instantaneous Discharge (kL/hr or L/s)

> The maximum daily and instantaneous rate of discharge (kL/h or L/s) is set on the available capacity of the sewer. Large dischargers are required to provide a balancing tank to even out the load on the sewerage treatment works.

Hours of day during which discharge will normally take place _____

Monday – Friday am _____ pm _____

Saturday am _____ pm _____

Sunday am _____pm _____

When are the peak periods of discharge during the day _____

Type of discharge:

- Batch Flow
- Intermittent Flow
- Continuous Flow

Where the applicant considers there are special circumstances applicable to their discharge, these circumstances should be identified, e.g.

- Seasonal discharges
- Large differences between average and maximum daily loads
- Variations to flow, which avoid peak domestic flows, etc.
- Retention of discharges for extended periods

Comments _____

Stormwater Details

Stormwater is prohibited from being discharged into the Council's sewerage system.
The capacity for such flows is not provided in the sewerage system. Therefore, Council does not generally accept the discharge of stormwater to the sewerage system.

The discharge of limited quantities of first flush water from sealed liquid trade waste generating areas will be considered where roofing cannot be provided because of safety or other important considerations.

Open Areas (Please attach stormwater drainage plan for the site)

Does the proposed installation contain open areas that will drain to the sewerage system? Yes/No

If Yes please give Details:

_____

_____

Please provide the following information:

- Reasons why the area cannot be fully or partially roofed and bunded to exclude stormwater
- The dimensions and a plan of the area under consideration
- Whether the open area is sealed
- The estimated volume of the stormwater discharge
- Information on rain gauging
- Information on a first flush system if proposed
- Measures proposed for diverting stormwater away from the liquid waste generating area
- Report on other stormwater management options considered and why they are not feasible.

Water supply source:

- Bore/groundwater/on-site dam/water course
- Recycled/reuse water
- Town water
- Any water supply meter being installed

Comments _____

Sampling Point Location _____

Flow measurement location and proposed flow measurement to sewer
Please attach details of flow measurement installed/proposed

_____

_____

Pre Treatment Maintenance Details

Proposed maintenance schedule of pre-treatment equipment and contractor

Pre Treatment Equipment	Frequency (weeks)	Name of contractor	Licence

Details of the chemicals to be used on site

Substance	Qty	Storage liquid/solid	Location	Bunding

Note: Attach Material Safety Data Sheets prepared in accordance with the national code of Practice [NOHSC:2011] for chemicals to be used and are likely to be contained in the waste effluent

Any proposed plans for future expansion? Yes/No

If “Yes” give details on a separate attachment.

Owner/s Authorisation

The applicant should be aware that approval of this application does not constitute a guarantee of any future approval of a variation to the approval. This will be dependant on the available capacity of the sewerage system at that time and any future approval must not be assumed.
However, alerting the Council to the applicant's future plans and proposals may assist the Council in planning future sewerage management and/or infrastructure additions/modifications.

Supporting Documentation:

Please attach any relevant supporting documentation e.g.

1. Environmental Impact Statement
2. Consultants report
3. DECC considerations/restrictions

Signature or owner(s) _____ Date _____

(Owners authorisation to making the application is mandatory as per Section 78, of the Local Government Act 1993)

> Please note that the owner of the property will be billed for water supply, sewerage and liquid waste services provided and it is the owner's responsibility to pay such fees and charges within the periods specified. The owner may arrange to recover such fees and charges through the lease arrangement between the owner and the tenant.

Signature of occupier/applicant _____ Date _____

Position in Company _____ Date _____

Office Use Only

Application date received _____

Site Visit Conducted _____

Application _____

Issue of Approval _____

Approval No. _____

Commencement of discharge _____ Date _____

STW Details

_____Sewerage Treatment Works _____Design Capacity (EP)

_____ Actual Capacity (EP)