

## Liquid Trade Waste Application Laboratory, Health Services, Photographic and Dental

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.

Please note that charges are applicable to this application.

### Applicants Details

Business Name: \_\_\_\_\_

Site Address: \_\_\_\_\_

Suburb: \_\_\_\_\_ Postcode: \_\_\_\_\_

Lot & DP \_\_\_\_\_

Owner/s Name: \_\_\_\_\_

Owner/s Address: \_\_\_\_\_

Phone (h) \_\_\_\_\_ Phone (w) \_\_\_\_\_

Applicants Name \_\_\_\_\_

Address \_\_\_\_\_

Phone (m) \_\_\_\_\_ Fax \_\_\_\_\_

Occupiers Name \_\_\_\_\_

Existing/Proposed Liquid Trade waste Pre-Treatment equipment (grease arrestor, basket arrestor, cooling pit, etc)

Type: \_\_\_\_\_

Size / Flow Rate: \_\_\_\_\_

Proposed cleaning schedule of pre treatment equipment and name of contractors used:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Location of the Sampling Point: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Plans – application to be accompanied by two copies of plans showing:

- Details and location of all processes, tanks, pits and apparatus associated with the generation of commercial waste
- Details, location, capacity/dimensions, material of construction and lining of the proposed pre-treatment facilities
- Details of pipes and floor drainage conveying the effluent
- Stormwater drainage plan

Liquid Trade Waste Regulation Policy (POL 006).

[http://www.wagga.nsw.gov.au/resources/documents/POL\\_006 - Liquid Trade Waste ADOPTED 090727.pdf](http://www.wagga.nsw.gov.au/resources/documents/POL_006_-_Liquid_Trade_Waste_ADOPTED_090727.pdf)

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 these substances
- organophosphorus pesticides and/or waste arising from the preparation of these substances
- any substances liable to produce noxious or poisonous vapours in the sewerage system
- organic solvents and mineral oil
- any flammable or explosive 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 or 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 sewage treatment process – refer *National Wastewater Source Management Guideline, July 2008, WSAA*
- any other substances listed in a relevant regulation.

## ***Laboratory application attachment sheet***

Please fill out this attachment sheet if your business has a laboratory that discharges liquid trade waste to the sewerage system. In the list below, tick the 'business type' that best describes your business. When finished, attach this sheet to the application form (Form C1).

### ***Business Type***

- Agricultural research centre laboratory
- Agricultural research (herbicides) laboratory
- Analytical laboratory
- Animal health (parasitology) laboratory
- Autopsy laboratory
- Chemical (pesticides) laboratory
- Clinical laboratory
- Dental laboratory
- Film (movies) laboratory
- Hospital laboratory
- Nuclear medicine laboratory
- Pathology laboratory
- Pharmaceutical laboratory
- Photographic laboratory
- Police crime scene unit laboratory
- Business that uses radioisotope
- School domestic (home) science laboratory
- School science laboratory
- Soil testing laboratory
- Tertiary institution laboratory (please specify)
- Veterinary research laboratory
- Workplace laboratory
- X-ray laboratory (radiology)
- Other, please specify \_\_\_\_\_

## Concurrence Classification B or C

Please include all details as requested (if insufficient space attach 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 or 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 trial pre-treatment plant

Stand alone pre-treatment - manufacturer's waste quality expectations

Configured pre-treatment - consultant's calculations based on experience of a similar installation.

## Acceptance guidelines for inorganic compounds<sup>+</sup>

### 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 substance is stored or used at the premises, write "NIL".			
<i>(the local water utility may add to this list as required)</i>			
Parameter	Acceptance Guideline Limits <sup>+</sup> mg/L	Average mg/L	Maximum mg/L
BOD <sub>5</sub> and Suspended solids	Normally, approved at 300 mg/L each. Concentration up to 600mg/L and in some cases higher concentration for low mass loadings may be acceptable if the treatment works has sufficient capacity and odour will not be a problem.		
COD	Normally, not to exceed BOD <sub>5</sub> by more than 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°C.		
pH	Within the range 7.0 to 9.0.		
Oil and grease	100 mg/L if 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 than 10%.		
Detergents	All industrial detergents are to be biodegradable. A limit on the concentration of 50 mg/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 sewage flow.		
Radioactive substances	The discharge must comply with the <i>Radiation Control Act 1990</i> .		

<sup>+</sup>Council may vary the acceptance limits having regard to the discharge characteristics and capacity of its sewerage system.

Parameter	Acceptance Guideline Limits 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 <sub>4</sub> )	500		
Sulphide (as S)	1		
Sulphite (as SO <sub>3</sub> )	15		

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

### Acceptance guidelines for organic compounds<sup>+</sup>

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

## Acceptance guideline for metals<sup>+</sup>

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 trade 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		
<p>* Where hexavalent chromium (Cr6<sup>+</sup>) is present in the process water, pre-treatment will be required to reduce it to the trivalent state (Cr3<sup>+</sup>), prior to discharge into the sewer. Discharge of hexavalent chromium (Cr6<sup>+</sup>) from chromate compounds used as corrosion inhibitors in cooling towers is <b>not permitted</b>.</p>				
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 <sup>#</sup>	6		
Tin	5	15		
Zinc	5	15		



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Arsenic	1	2		
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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 <sup>#</sup>	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 dischargers. The concentration of silver in the photoprocessing waste where a balancing tank is provided is not to exceed 5 mg/L.

Non sewerage system 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:

**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 sewage treatment works.**

Hours of days 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, eg:

- 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 \_\_\_\_\_

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 give details:

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**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.

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 trade waste generating area
- report on other stormwater management options considered and why they are not feasible.

Water supply source:

- bore/groundwater/on-site dam/watercourse
- 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*

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Existing/proposed waste treatment and equipment:

Plans - application to be accompanied by 2 copies of plans showing:

- details and location of all processes, tanks, pits and apparatus associated with the generation of industrial waste
- details of the proposed liquid waste treatment processes
- 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
- 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)
- Any additional details as requested by the local water utility.

Proposed cleaning 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.

# Form C1

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 dependent 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 sewage management and/or infrastructure additions/modifications.

Supporting documentation:

Please attach any relevant supporting documentation eg.

- 1. Environmental Impact Statement
- 2. Consultant's report
- 3. DECC considerations/restrictions.

Signature of owner/s \_\_\_\_\_ Date / /

(Owner's 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 trade waste services provided and it is the owner's responsibility to pay such fees and charges within the period specified. The owner may arrange to recover such fees and charges through the lease arrangement between the owner and the occupier.

Signature of occupier/applicant \_\_\_\_\_ Date / /

Position in Company \_\_\_\_\_ Date / /

### Office Use Only

Application date received \_\_\_\_\_

Site visit conducted \_\_\_\_\_

Application \_\_\_\_\_ approved / refused

Issue of approval \_\_\_\_\_

Approval No \_\_\_\_\_

Commencement of discharge \_\_\_\_\_ Officer in charge \_\_\_\_\_

### STW Details

\_\_\_\_\_ Sewage Treatment Works \_\_\_\_\_ Design Capacity (EP)

\_\_\_\_\_ Actual Capacity (EP)