

KEMPSEY SHIRE COUNCIL

Civic Centre, 22 Tozer Street, Kempsey 2440
PO Box 3078, West Kempsey 2440
Phone 02 6566 3200 Fax 02 6566 3205
Web: www.kempsey.nsw.gov.au Email: ksc@kempsey.nsw.gov.au



LIQUID TRADE WASTE APPLICATION FORM (CLASS B & C)

Issued under Section 68, Part C, of the Local Government Act 1993

This application form is for businesses that intend to discharge liquid trade waste to the sewerage system (Classification B or C). Please include all details as requested, and ensure you read the section on substances that must not be discharged to the sewerage system. When completed, please lodge this form with Council, along with any attachments.

- (1) Business Trading Name: _____
- (2) Site Address: No. _____ Street _____
Town/Suburb: _____ Postcode: _____
- (3) Property Description: Lot: _____ Section: _____ DP: _____
- (4) Property Owner's Name: _____
Telephone (BH): _____ Telephone (AH): _____
- (5) Property Owner's Address: _____
- (6) Applicant's Name (if different to owner): _____
Telephone (BH): _____ Telephone (AH): _____
- (7) Applicant's Address: _____
- (8) Occupier's Name (if different to owner): _____
Telephone (BH): _____ Telephone (AH): _____
- (9) Type of Business:
 -
 - Commercial retail food preparation activities – Please fill out Form (A1).
Other commercial activities – Please fill out as appropriate Forms (A2-A4).

APPLICANT'S AUTHORITY

I/We hereby:-
Consent to Kempsey Shire Council displaying and copying this application and supporting documentation, including designs, for the purpose of obtaining, when necessary, public comment.

Applicant's Signature: _____ Date: _____

OWNER'S CONSENT

I/We, _____ of _____

Being the owner/s of the land to which this application relates, hereby consent to the making of this application and hereby grants Council the power of entry to carry out inspections in relation to any land or building to which this application relates.

Owner's Signature(s) _____ Date: _____

Note: Owner's authorisation to making the application is mandatory as per Section 68, Local Government Act 1993.
All owners must sign – if owned by a company the consent must be under Company Seal.

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- (10) Description of flow:
- Maximum rate of discharge to sewer _____ kL/h or L/s
 - Maximum daily discharge to sewer _____ kL
- (11) Any water supply meter being installed? Yes No
- (12) Existing/proposed equipment (grease arrestor, basket arrestor, cooling pit, etc):
- Type _____
- _____
- Size/flow rate _____
- (13) Proposed cleaning schedule of pre-treatment equipment and names of contractors used:
- _____
- _____
- _____
- (14) Location of the sampling point: _____
- (15) 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 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; and
 - Stormwater drainage plan.
- (16) Type of business: _____
- (17) Name of processes generating liquid trade waste:
- i) _____
- ii) _____
- iii) _____
- iv) _____
- v) _____
- vi) _____
- (18) Type and Quantity of raw materials processed _____
- (19) Description of Waste:
- List of all expected pollutants including substances contained in wash down detergents, boiler & cooling water & other sources,

- Expected maximum & 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 DEUS. Attach details and supporting documentation of data collection method.*

Acceptable means of sample analysis data collection:

- i) *Sample analysis results from a similar existing process.*
- ii) *Collection of the proposed waste from a trial pre-treatment plant.*
- iii) *Stand alone pre-treatment – manufacturer’s waste quality expectations. Configured pre-treatment – consultant’s calculations based on experience of a similar installation.*

(20) Non Sewerage System Discharges/Wastes

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

(21) Description of flow:

The maximum daily and instantaneous rate of discharge (kL/h orL/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 _____

When are the peak period of discharge during the day _____

Type of Discharge

- Batch flow
- Intermittent flow
- Continuous flow

(22) 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 flows, etc.
- Variations to flow, which avoid peak domestic flows, etc.
- Retention of discharges for extended periods

Comments: _____

(23) 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:

In accordance with clause 6(d) of Local Government (Water Services) Regulation 1999 storm water is prohibited from being discharged into 7ci bVWfg sewers.

Therefore, 7ci bVW does not generally accept the discharge of stormwater into the sewerage system.

The discharge of limited quantities of flush water from 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 the stormwater;
- The dimensions and a plan of the area under consideration;
- The estimated volume of the stormwater discharge;
- Information on rain gauging;
- Information on first-flush system if proposed;
- Measures proposed for diverting stormwater away from the liquid trade waste generating area; and
- Report on other stormwater management options considered and why they are not feasible.

(24) Water supply source:

- Bore/ground water/on-site dam/watercourse
- Recycled/reuse water
- Town water
- Any water supply being installed

Comments: _____

(25) Sampling point location _____

(26) Flow measurement location and proposed flow measurement to sewer

Please attach details of flow measurement installed/proposed

(27) Existing/proposed waste treatment and equipment:

Plans – applications 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 scheme.
- Flow diagram & 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.

(28) Proposed cleaning schedule of pre-treatment equipment and contractor:

Pre-treatment Equipment	Frequency (weeks)	Name of Contractor

(29) Details of the chemicals to be used on site:

Substance	Qty	Storage liquid/solid	Location	Bunding

Note: Attach Material Safety Data Sheets prepared to the Australian Standard of chemicals to be used and are likely to be contained in the waste effluent.

(30) Any proposed plans for future expansion? Yes No

If yes, give details on a separate attachment.

SUBSTANCES PROHIBITED FROM BEING DISCHARGED TO THE SEWERAGE SYSTEM

Pursuant to the Local Government (General) Regulations 2005 any discharge into the sewer (except for domestic waste) needs to be approved. The following substances are prohibited from being discharged into sewers or drains::

- (a) Animal matter (including carcasses but not including human waste), wool, hair, grease, dust, ashes, cinders, soil, rubbish, filth, oil, salt, mud, sand, gravel, garbage, offal, vegetable or fruit parings, rags, house refuse, steam or solid matter;***
- (b) Any flammable or explosive substance;***
- (c) Waste liquid that contains a percentage of any substance, or waste liquid that is of a temperature, specified by 7ci bV as being:***
 - (i) Likely to endanger public health, public safety or public amenity or the environment, or***
 - (ii) Damaging to, or liable to form compounds that may damage Council's sewerage system or treatment works, or***
 - (iii) Likely to injure employees engaged in the operation or maintenance of Council's sewerage system or treatment works or the health of those employees;***
- (d) Except in the case of a public drain or a Council gutter – roof, rain, surface, flood, and seepage or subsoil water.***

In addition to those mentioned above, the following substances are not permitted to be discharged into the sewerage system:

- Organochlorine weedicides, fungicides, pesticides, herbicides and substances of similar nature and/or wastes arising from the preparation of these substances;
- Organophosphate pesticides and/or wastes arising from the preparation of these substances;
- Any substances liable to produce noxious or poisonous vapours in the sewerage system;
- Organic solvents and mineral oils;
- Discharges from 'Bulk Fuel Depots';
- Natural or synthetic resins, plastic monomers, synthetic adhesives and rubber plastic emulsions;
- Chromate from cooling towers; and
- Waste liquids that contain pollutants at concentrations, which inhibit the sewage treatment processes – Guidelines for Sewerage Systems: Acceptance of Trade Waste (Industrial Waste) (ARMCANZ/ANZECC, 1994).

POLLUTANTS - ACCEPTANCE GUIDELINE LIMITS

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".

<Macleay Water 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 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 ₅ 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	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%.		
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 Radiation Control Act 1990.		

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

ACCEPTANCE GUIDELINES FOR INORGANIC COMPOUNDS+

PARAMETER	ACCEPTANCE GUIDELINE LIMITS+ mg/L	AVERAGE mg/L	MAXIMUM mg/L
Ammonia (as N)	50		
Boron	25		
Bromine	5		
Chlorine	10		
Cyanide	5		
Fluoride	20		
Nitrogen (total Kjeldahl)	100		
Phosphorus	20		
Sulphate (SO ₄)	100		
Sulphide (as S)	1		
Sulphite (as SO ₃)	15		

+Council may vary the 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
Formaldehyde <i>* Acceptance of chemical toilet waste which contains formaldehyde will be assessed on the available dilution in the sewerage system.</i>	50*		
Phenolic compounds (except pentachlorophenol)	10		
Petroleum hydrocarbons (non-flammable)	20		
Pesticides (general)	0.1		
Pesticides (organophosphates)	Nil		
Pesticides (organochlorines)	Nil		

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

ACCEPTANCE GUIDELINES 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 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	2	6		
Chromium	5	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 into the sewer. Discharge of hexavalent chromium (Cr⁶⁺) from chromate compounds used as corrosion inhibitors in cooling towers is **not permitted**.*

Cobalt	5	15		
Copper	5	15		
Iron	100	-		
Lead	2	6		
Manganese	10	30		
Mercury	0.02	0.05		
Molybdenum	10	30		
Nickel	5	15		
Selenium	5	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.

STAND-ALONE COMMERCIAL RETAIL FOOD PREPARATION BUSINESS

Please fill out this attachment sheet if your business is involved in commercial food preparation activities that discharge liquid trade waste to the sewerage system. In the table below, tick the 'name of process' that best describes what your business does, and write the number of seats or beds your business has (if any). In addition, please indicate if your premises contain the following:

Potato peeling appliance/s – number of appliances _____

Dishwasher/s – number of appliances _____

TICK(✓)	NAME OF PROCESS	NO. OF SEATS OR BEDS
	Bakery (only hot bread cooked on site)	NIL
	Bakery (pies, sausage rolls, quiches, cakes cooked on premises)	
	Bakery (imported pies & sausage rolls)	
	Bakery (with coffee shop – eat in)	
	Bistro (no hot food cooked – sandwiches (coffee) only)	
	Bistro (hot food cooked and served)	
	Boarding house/hostel kitchen	
	Butcher – retail	NIL
	Café	
	Cafeteria	
	Canteen	
	Caterer	
	Club	
	Coffee shop/sandwich shop – no hot food cooked or served	
	Coffee shop – hot food cooked or served	
	Commercial kitchen/caterer	
	Community hall kitchen – tea and coffee only	
	Community hall kitchen – hot food cooked and served	
	Chicken – BBQ/charcoal	
	Chicken – retail fresh outlet with cutting and preparation of meat	
	Day care centre	NIL
	Delicatessen – no meat cooked on site – no hot food prepared or served	
	Delicatessen – hot food prepared or served	
	Doughnut shop	
	Fish shop – fresh (retail) no cooking on site	NIL
	Fish shop – cooking on site	
	Food caravan	NIL
	Fruit and vegetable market (retail)	NIL
	Function centre	
	Garbage bin cleaning – within commercial premises, i.e. hotel/restaurant	NIL
	Hostel	
	Hotel bistro	
	Hotel restaurant	
	Hotel snack bar	
	Hot bread shop	
	Ice cream parlour	
	Ice cream parlour with hot food take-away	
	Juice bar	
	Loading dock – fruit and vegetable	NIL
	Mixed business (minimal hot food)	
	Motel kitchen/restaurant	

MECHANICAL REPAIRERS

Please fill out this attachment sheet if your business is involved in mechanical repair processes (and other services related to motorised equipment processes) that discharge liquid trade waste to the sewerage system. In the lists below, tick the 'business type' or 'processes' that best describe what your business does. Note that there is an additional list at the end for 'associated processes', e.g. take-away food at a service station. When finished, attach this sheet to the application form.

TICK (✓)	BUSINESS TYPE
	Airport terminal
	Bus/coach depot
	Car detailer
	Car/truck dealership service centre
	Car importation premises (de-waxing only)
	Construction equipment maintenance (i.e. earthmoving equipment and/or cranes)
	Equipment hire premises (Kennards, etc)
	Factory premises
	Fleet vehicle operations
	Forklift maintenance
	Garbage truck washing
	Lawnmower repairer
	Motorbike mechanical repairer
	Motor boat mechanical repairer
	Motor Wrecker
	Service station
	Specialist services
	Stand-alone mechanical workshop
	Train washing facility
	Transport depot
	Other, please specify
	<p>Processes: <i>Those processes in italics have automatic assumed concurrence (Concurrence Classification A).</i></p> <p><i>Mechanical workshop</i></p> <ul style="list-style-type: none"> • Parts washing with water. • Floor washing. • Draining and flushing of radiator coolant (not permitted for discharge). • Parts washing with solvents (not permitted for discharge). • Radiator repairs • Automobile dismantling (i.e. motor wrecker) • Cleaning of engine blocks and engine heads in chemical baths • Engine/gearbox reconditioned (sent off site) • Engine/gearbox reconditioned (carried out on site) <p><i>Repairing car bodies</i></p> <ul style="list-style-type: none"> • Panel beating • Wet rubbing • Spray painting

Washing and detailing

- Tunnel type (external body only)
- Wand type (external body only)
- Washing by hand (external body only)
- Degreasing of engine and washing
- Internal washing of meat vans or truck under bodies
- External truck washing
- Internal washing of tankers
- Forecourt washing (service station)
- Open area washing (considered only under special circumstances. Applicant must supply reasons why roofing is not possible, and must include the details of first flush system).

Associated Activities/Businesses

Some premises have associated processes generating liquid trade waste.

In addition to the above, does your premises have any of the following processes?

- Restaurant (number of seats?) _____
- Take-away food bar (number of seats?) _____
- Service station forecourt food caravan(s)
- Boiler blowdown (steam supply for internal washing of tankers)
- Chemical toilet disposal (for intercity coaches/buses)
- Other trade wastewater process (please specify) _____

LABORATORY

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.

Those processes shown in italics have automatic assumed concurrence (Concurrence Classification A).

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

ANIMAL WASH

Please fill out this form if your business involves animal washing processes that discharge liquid trade waste to the sewerage system. In the list below, tick the 'business type' that best describes what your business does, and also tick any 'associated processes' that are relevant to your business.

Those processes shown in italics have automatic assumed concurrence (Concurrence Classification A)

TICK (✓)	BUSINESS TYPE
	Mobile animal wash
	Dog pound
	Boarding kennels
	Stables
	Racecourse
	Does your business include any of the following associated activities/business types?
	X-ray facilities
	<i>Pathology laboratory (< 5 kL/d)</i>
	<i>Autopsies performed</i>
	Animal health (parasitology) laboratory
	Veterinary research laboratory
	<i>Restaurant (< 5000 L grease arrestor)</i>
	<i>Conference facility that serves hot food (< 5000 L grease arrestor)</i>
	Open areas (please indicate area size)
	NOTE: Where full roofing is not provided the application must be referred to DEUS for concurrence.