

Acceptance guideline 4: For Motor Trades and Service Station Forecourts

Overview

The purpose of this acceptance guideline is to outline under what circumstances Icon Water will permit the discharge of liquid waste into the sewerage network.

Under section 35 of the *Utilities (Technical Regulation) Act 2014*, it is an offence to discharge into the water or sewerage network any substance that is likely to interfere with the network, or form compounds that would be likely to interfere, unless the consent of the utility is obtained. Significant fines, imprisonment or both may result from an offence. Discharges entering a sewer that are in breach of the conditions set out in this guideline will probably constitute a breach of section 35 of the *Utilities (Technical Regulation) Act 2014* and may lead to prosecution of the person discharging the waste, or allowing the waste to be discharged.

This guideline contains specific information on waste types and discharge requirements. The requirements of this guideline are in addition to the requirements specified in *Trade waste acceptance guideline 1: general acceptance criteria for liquid waste*.

Conditions of acceptance

Acceptance of liquid wastes to sewerage from trades liable to produce oily wastes or wastewater bearing other petroleum hydrocarbons, including, but not limited to (Table 1):

Table 1: Premises affected

Activity	Characteristics of waste	Minimum pre-treatment required
Automotive/Engineering		
<ul style="list-style-type: none"> • Auto dismantler • Bus/Coach depot wash bay area • Car detailing • Mechanical workshop • Service stations (workshop only) • Vehicle washing (commercial-manual cleaning) • Vehicle washing (automatic robots) self service • Vehicle washing (including engine degreasing) 	<p>Oil, Grease, Suspended Solids, Petroleum Hydrocarbons, Metals, Solvents, Detergents</p> <p>Kerosene</p>	<p>Dry basket arrestor. Collection pit minimum capacity 300L</p> <p>An oil interceptor/separator, sized accordingly</p> <p>Kerosene and solvents (if used) are not permitted into the sewer</p>
<ul style="list-style-type: none"> • Equipment hire company • Construction Equipment maintenance • Truck wash (external only) 	<p>Oil, Grease, Suspended Solids Detergent, Kerosene</p>	<p>Dry basket arrestor. A general purpose pit or a solids settlement pit minimum size 1000L, an oil interceptor/separator, sized accordingly</p> <p>Kerosene is not permitted into the sewer</p>
<ul style="list-style-type: none"> • Engine/gearbox reconditioning parts washing 	<p>Oil, Grease, Suspended Solids, Detergents, Kerosene, Lead</p>	<p>Dry basket arrestor. Collection pit minimum capacity 300L. An oil interceptor/separator, sized accordingly</p> <p>Kerosene is not permitted into the sewer. Acid cracking, pH correction facility may be required</p>
<ul style="list-style-type: none"> • Panel beater/spray painting 	<p>Oil, Grease, Suspended Solids</p>	<p>Dry basket arrestor. Collection pit minimum capacity 300L. An oil interceptor/separator sized accordingly</p> <p>Discharge from a spray booth area is not permitted. Paint solvents, thinners are not permitted into the sewer</p>
<ul style="list-style-type: none"> • Radiator repair 	<p>Suspended</p>	<p>Capture the radiator fluid in a tray or</p>

Activity	Characteristics of waste	Minimum pre-treatment required
	Solids, pH, Metals	<p>container before removing the radiator from the vehicle</p> <p>Where possible, re-use radiator fluid, otherwise capture and store for off-site removal by a DECC licenced contractor.</p> <p>Solids settlement pit. Metal removal and pH adjustment may be required before discharge to sewer</p> <p>Floor must be bunded to prevent spillage draining to sewer.</p>
<ul style="list-style-type: none"> • Service stations covered forecourt • Bus/Coach depot refuelling bay • Fuel Depot 	Oil, Grease, Petroleum Hydrocarbons	<p>Dry basket arrestor.</p> <p>A pump well (minimum size 750L) with:</p> <ul style="list-style-type: none"> • Sloping bottom and an expanded grill inspection aperture in a chequer plate lid. • High level alarm switch fitted with alarm signal to service station console. • Manual start switch with a low level stop switch. <p>An oil interceptor/separator sized accordingly.</p>

Conditions of acceptance

Acceptance of liquid wastes to sewerage from trades liable to produce oily wastes or wastewater bearing other petroleum hydrocarbons is conditional on:

1. provision by the customer of approved oil separation pre-treatment facilities;
2. adequate maintenance of the facility, as per the manufacturer's recommendations, being carried out and recorded in a log
3. use of quick emulsion breaking detergents, degreasers etc.

Separator requirements

The oil separation pre-treatment facilities shall be of the above ground coalescing plate separator type or vertical gravity separator type with minimum specifications of 1000 L minimum capacity or sized according to the influent flow rate.

The separator shall be WSSA or Sydney Water Approved and have the following installation requirements:

- A non-emulsifying feed pump shall be used. All associated pipe work shall be sized to match the pump capacity.
- A nominal 25mm "full flow" sampling valve shall be provided in the effluent pipe leading to the tundish.
- The following information shall be permanently marked on the plate separator and pump:
 - model designation, supplier name, address and phone number,
 - for the separator: the maximum instantaneous flow capacity (this should equal or exceed the pump flow rate),
 - for the pump: pump type and speed.
- The pre-treatment installation's pipe work and the surrounding area must be arranged to ensure that any spillage or overflow of sludge, separated oil or untreated oily waste is prevented from bypassing the separator and entering the sewerage system.

Commissioning

Following installation, each pre-treatment facility shall be commissioned by a person or company accredited for this purpose by the manufacturer or supplier of the equipment. As part of the commissioning, the following documents shall be provided:

- a certificate of commissioning to be forwarded to Icon Water's Liquid Waste Management representative and
- a schedule of recommended cleaning and maintenance to be given to the owner and kept at the premises for reference and available for inspection by Icon Water on request. The schedule shall provide:
 - a description of activities to be undertaken (e.g. for coalescing plate separators the removal and cleaning of plates, sludge withdrawal from hopper, etc.)
 - minimum frequencies for these activities; and
 - any special observations to be made which would affect the frequency of this maintenance schedule or which may indicate conditions when qualified service personnel may need to be engaged.

Preventing stormwater entry

Icon Water does not permit the discharge of stormwater to sewer. All broad areas draining to sewer such as wash down bays, service station forecourts, garbage enclosures and workshops must be roofed and bunded to prevent the entry of stormwater, including rain descending at an angle of up to ten degrees from the vertical. If bunding is not practical or possible, then grated stormwater drains and/or the grading away of surfaces surrounding the sewered area may be used to achieve the same purpose. In all cases the design must prevent runoff from any storm with an intensity of up to a 10 year Average Recurrence Interval (ARI) from entering the sewer. Designers may find the ACT Government Transport Canberra and City Services Design Standards for Stormwater (accessible on the internet) and Australian/New Zealand Standard AS/NZS 3500, Plumbing and Drainage, Part:3 Stormwater Drainage useful as guides.

Where the stormwater catchment threatening the sewered area with inundation, is greater than 100 square metres, the application must be accompanied by a certificate from an engineer who is currently registered on the National Professional Engineers Register, to verify the design's capability. The customer must ensure that stormwater drains remain free from debris and/or other obstructions that would restrict or block the flow of stormwater.

Premises affected

The provisions of this Guideline apply to all new applications for connection of affected premises to the sewerage system and to all affected premises already connected, but not served by any form of pre-treatment for oil water separation previously approved by Icon Water. Premises with existing approvals by Icon Water are required to abide by the terms and conditions of their current approval. If existing approval premises upgrade their facilities they should meet the requirements of this Guideline.

Further information

Additional information about the discharge of liquid waste into Icon Water's sewerage network is available at iconwater.com.au/tradewaste or by contacting us on **02 6248 3111** or via email on talktous@iconwater.com.au