TRADE WASTE GUIDE NOTE TW-GN-205 Issue B



SERVICE-STATION FORECOURT / REFUELLING POINT (EXISTING)

Background

As detailed in the Icon Water publication *STD-SPE-P-003 Trade Waste Approval and Compliance Requirements*, activities that generate liquid trade waste for discharge into Icon Water's Sewerage Network must comply with specific requirements.

Any capitalised terms used and not defined in this Guide Note have the same meaning as in Icon Water publication STD-SPE-P-003 Trade Waste Approval and Compliance Requirements.

Purpose

The purpose of this Guide Note is to provide details on the specific requirements for liquid trade waste generated from a service-station forecourt or refuelling point at another facility – for example at a bus depot – so that compliant waste can be approved for ongoing acceptance into Icon Water's Sewerage Network.

Compliance

The Trade Waste Customer remains responsible and liable for ensuring compliance with this Guide Note even if the occupier of the premises is another party or entity.

In the event that the Trade Waste Customer or the occupier of the premises fails to comply with this Guide Note, Icon Water may take any and all corrective actions as specified in the Icon Water publication STD-SPE-P-003 Trade Waste Approval and Compliance Requirements and the Liquid Trade Waste Negotiated Contract.

Guidance

The requirements detailed in this Guide Note are applicable for the following facilities, when categorised as "Category B" discharges:

Table 1. Facility types and Category B requirements

Facility Type / Activities	Maximum Allowable Daily Discharge Volume	Requirements
Existing service-station forecourt including: Refuelling points	5,000 L (5kL)	(i) the instantaneous flow rate does not exceed 3 L/s, and(ii) the required pre-treatment equipment is
Existing refuelling points at other sites, including:	5,000 L (5kL)	installed in conjunction with good housekeeping practices, and
Bus/coach depotConstruction-equipment sitesEquipment-hire sites		(iii) excluded substances are not discharged.

This Guide Note **is not** applicable to new or refurbished service-stations or other sites with refuelling points. The wastewater from a refuelling point area may contain flammable substances which pose a high risk to the general public, Icon Water's Sewerage Network and also workers. Therefore, new or refurbished service-stations or refuelling points are not permitted to be connected to Icon Water's Sewerage Network and only existing facilities may remain connected subject to the requirements of this Trade Waste Guide Note.



Excluded substances/equipment/processes

The following are prohibited from discharging to the Icon Water Sewerage Network:

- Petrol, diesel, discrete oil, kerosene, solvents and other flammable and/or explosive substances, including spent chemicals
- · Rainwater/stormwater and groundwater
- Wastewater containing chemicals or substances above our acceptance criteria (or not listed) in Icon Water's publication STD-SPE-P-003 Trade Waste Approval and Compliance Requirements.

The above-mentioned substances must be collected and removed for off-site management.

Pre-treatment and discharge requirements

The following table describes pre-treatment requirements for all facilities/business activities covered by this Guide Note that discharge liquid trade waste to the Icon Water Sewerage Network.

Table 2. Pre-treatment devices

Pre-treatment Device	Details		
Screens	Must be fitted to all floor drains.		
Dry basket arrestor	Must be installed for any floor waste outlet.		
	The arrestor needs to be maintained regularly (e.g. removed, scraped and cleaned) to ensure the unit is operating properly.		
Collection well/pit or solids	Must have a minimum working capacity of 750 L.		
settling pit ¹	Must have a sloping bottom, a lid with apertures allowing for visual inspection and a high-level indicator with alarm		
	Must be maintained and cleaned regularly to remove the build-up of gross solids. Gross solids must not be discharged to the Icon Water Sewerage Network.		
Coalescing plate interceptor/separator, hydrocyclone separation system or a vertical gravity separator ²	These must be sized according to the influent flow rate and installed in accordance with the manufacturer's instructions. The minimum size accepted is 1000 L capacity.		
or a vertical gravity separator	A non-emulsifying feed pump shall be used. All associated pipe work shall be sized to match the pump capacity.		
	The pump type and speed shall be permanently marked on the pump.		
	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 device; model designation supplier name address and phone number the maximum instantaneous flow capacity (this should equal or 		
	exceed the pump flow rate).		



Pre-treatment Device	Details
Bunds/Roofing	Bunds must be installed around the liquid trade waste process and pre-treatment area.
	A bund of at least 150 mm high or speed bump hump 75 mm high around the area is required if it is outside to prevent surface stormwater flow.
	A service-station forecourt and other refuelling points must be roofed in order to minimise stormwater ingress to the Sewerage Network. Discharge from open forecourts/refuelling points is not permitted.

¹The discharger must provide supporting information in regard to sizing of equipment and the manufacturer's recommended maintenance schedule.

Coalescing plate interceptor/separator, hydrocyclone separation system or a vertical gravity separator

Installation requirements

Location: Installation of the system must allow safe access for maintenance and inspection. The system must be installed to meet Australian Standards with respect to, but not limited to, working at heights and confined spaces. It must also be installed in a location that is accessible by maintenance vehicles to allow safe access to thoroughly clean its interior.

Connection to sewer: Use a disconnector gully with a riser pipe and inlet fitting and a tundish; a minimum of a 20 mm air gap between the tundish and the outlet from the pre-treatment equipment is required. The gully riser is to be outside the bunded area. If the gully riser is within the bunded area, the top of the gully must be 100 mm above the bund height. The gully riser must be 100mm in diameter.

Sampling: A nominal 25 mm 'full flow' sampling ball-valve shall be provided in the effluent pipe leading to the tundish. The valve shall be located near the separator in a manner such that effluent would pass through the valve (when it is open) rather than discharging to the tundish.

Collection well/pit: Install a 750 L working capacity collection pit. Note, to attain 750 L working capacity, you must install a pit larger than 750 L. It must be constructed and installed to allow ease of inspection and cleaning. The grates should be easily removed and the pit wide enough so that accumulated solids can be easily removed. The pit must have a high-level alarm switch fitted (audible and visible), with remote alarm signal to an area on the site that is able to be monitored.

Pump: Use the correct pump to manage the wastewater generated. The pump shall be a non-emulsifying feed pump. It must have a manual start switch with a low-level stop switch.

Vertical clearance: Ensure there is adequate vertical clearance above the pre-treatment system to allow safe inspection, cleaning and replacement of the plate pack(s).

Compliance plate: Check that there is a compliance plate with a compliance number clearly visible on the system. This ensures the equipment is authorised for the full range of conditions and wastewater on site.

Bunding: Ensure the liquid trade waste generating process area and pre-treatment is within a bund. A bund of at least 150 mm high or speed bump hump 75 mm high around the area is required if it is outside to prevent surface stormwater flow. The overall surface water flow across the site has to be considered and the height of the bund/speed bump may have to be increased to prevent stormwater flow.

Roofing: The liquid trade waste generating process area and pre-treatment must be roofed to prevent ingress of rainwater. A ten degree (from the vertical) overhang is the minimum acceptable roof cover to ensure rainwater does not get in.

Backflow-prevention: A cold-water tap must be installed within 5 metres of the separator. A backflow-prevention device must be installed on the inlet side of the tap. The backflow device(s) must be tested every 12 months by a licensed plumber who is accredited in backflow prevention to ensure it is operating correctly

²Double and triple interceptor pits and general-purpose pits are not deemed by Icon Water to be appropriate pre-treatment equipment for the wastewater generated by mechanical workshops and the like.



and to identify if the valve requires servicing/repair. After testing a valve, the Licensed plumber must lodge a test certificate with Access Canberra, the plumbing regulator.

Note: 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 Network.

Commissioning requirements

Each pre-treatment device/system 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 to be forwarded to Icon Water
- a copy of the work as executed sanitary drainage plan showing the completed installation of pretreatment devices/system, 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:
 - o a description of activities to be undertaken (e.g. for coalescing plate separators the removal and cleaning of plates, sludge withdrawal from hopper, etc.)
 - o 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.

Operational requirements

The collection pit must be checked for the presence of fuel and the pump is not to be started if petrol is detected in the pit. In this case, the pit contents must be pumped out and disposed of to an appropriate waste disposal facility and not discharged to the sewerage system/network.

If the existing lid is not accessible or does not have an inspection aperture, it must be either:

- modified in order to comply with the above-mentioned requirements, or
- the discharges must be disconnected from the Sewerage Network. In such cases, wastewater collected in the pit must be tankered off site. Icon Water must be advised of such arrangements.

If existing premises with a refuelling point are refurbished, the discharge to the Sewerage Network from this area must be disconnected.

Maintenance requirements

The pre-treatment system must be maintained as per the schedules provided during the commissioning of the system. The maintenance regime must include all aspects as indicated above in *Commissioning requirements*.

Other waste management

In addition to the installation, operation and maintenance of pre-treatment devices, the following discharge requirements are also applicable:

- Any spent petrol, diesel, discrete oil, kerosene, solvents and other flammable and/or explosive substances, including spent chemicals or fuel must be collected and securely stored in appropriate containers for recycling or disposal at an appropriate treatment facility
- Invoices/receipts for the waste removal by a licensed contractor (including details of the disposal facility) need to be provided when requested by Icon Water.



Chemical handling and storage

Safety Data Sheets for any chemicals stored <u>on site in bulk</u>, and which may be present in the wastewater, must be provided to Icon Water as an attachment with the Icon Water liquid trade waste application form.

Chemicals should be stored in an area where any spillage cannot drain to Icon Water's Sewerage Network or stormwater system. Concentrated chemicals e.g. acids, caustic and other corrosive chemicals must not be discharged to Icon Water's Sewerage Network. Chemical solutions containing small quantities of these substances should be neutralised before discharging to Icon Water's Sewerage Network.

Housekeeping

The following general housekeeping practices must be complied with:

- A mineral-oil separator is more efficient if detergents are not used (e.g. cleaning is completed using high water pressure). If the use of detergents cannot be avoided, only quick-break detergents must be used. These detergents allow oil/water emulsion to break quickly (say, within 20–30 minutes) and assist the separation process
- Oil spills must be dry cleaned prior to wash-down
- Grease blobs must be scraped up before wash-down.
- Screens must be used to exclude bolts, nuts, washers and the like from the pump intake
- Cleaning compounds must be compatible with the pre-treatment system
- Petrol, diesel, discrete oil, kerosene, solvents and other flammable and/or explosive substances, including spent chemicals and empty containers must be stored in a separate bunded area that cannot drain to the sewerage or stormwater network.

Compliance management

Record-keeping

Trade Waste Customers must:

- keep documentation relating to inspection and servicing of all pre-treatment systems at the premises for at least two (2) years and make this documentation available to Icon Water upon request
- maintain appropriate records to demonstrate compliance with the Liquid Trade Waste Negotiated Contract at all times.

Site inspection

Icon Water's personnel may attend the premises to conduct site inspections to verify compliance with the Liquid Trade Waste Negotiated Customer Contract. The indicative frequency of site inspections is detailed in Section 9.12 of Icon Water's publication *STD-SPE-P-003 Trade Waste Approval and Compliance Requirements*.

References

• STD-SPE-P-003 Trade Waste Approval and Compliance Requirements

Issue	Date	Reason for Revision	Ву
Α	10/06/2025	Issue for public consultation	S. Chappell
В	31/10/2025	Issue for use	S. Chappell