

Liquid hauled waste

Discharging domestic hauled waste

Once a liquid waste hauler has authorisation and is issued their vehicle swipe cards, they must ensure all drivers attend the relevant SA Water/ Allwater inductions. Following this, they are free to discharge liquid waste into SA Water's Septic Waste Disposal Stations (SWDS) in accordance with the conditions within their authorisation.

Below are details for liquid waste haulers on the process for discharging domestic wastewater at SA Water septic waste disposal stations (SWDS).

Attending SWDS for discharges

Prior notification is not required when discharging domestic wastewaters at SWDSs. Haulers may attend their authorised SWDSs during opening hours as required. Depending on which SWDS you attend, it may be:

- an automated electronic SWDS, with your swipe card initiating the system while recording the details of the vehicle discharging the waste plus the pH, conductivity, classification and volume of the discharge
- a manual discharge made by prior arrangement if necessary where direction may be given by the hauled waste officer or the wastewater treatment plant operator.

In both instances, the hauler must leave a complete *septic tank receipt advice form* in the post box provided containing details of the load signed off by the driver*. Our Hauled Waste Officer may attend at this point and carry out random compliance sampling as stipulated within your authorisation.

Please refer to the short instructional procedure below for discharging domestic hauled waste.

** Note: manual discharge SWDSs operate vehicle number plate capture technology and CCTV to monitor traffic through the station to prevent misuse or illegal discharges.*

Liquid waste hauler procedure for metro septic waste disposal stations

This procedure relates to the receipt of liquid hauled waste at Bolivar, Christies Beach and Heathfield SWDSs.

1. Compliance

Contractors must comply with required approvals for types of waste to be deposited at the septic waste disposal stations and driver inductions.

2. Competencies

- Understand process for disposing of liquid hauled waste into the SWDS.
- Ability to follow correct procedure at the SWDS.
- Ability to ensure the *safe* disposal of liquid hauled waste by following occupation health and safety protocols.
- Ability to ensure the disposal of liquid waste does not pose a threat to the wastewater treatment plant.
- Ability to undertake a pH test on waste loads.
- Ability to correct the pH to within acceptable range.
- Fully trained and licensed for vehicle being used,

3. Process details

Please also refer to the process flowchart at the end of this guideline.

#	Process step	Responsible
1.	The process begins each time liquid hauled waste is to be received. We will accept domestic septic tank sludge, domestic septic tank effluent/portable toilet contents within the conditions of your discharge authorisation and the restricted wastewater acceptance framework.	Licensed liquid waste contractor
2.	Waste contractor authorisation from SA Water Liquid waste contractors must obtain a liquid waste hauler authorisation before any liquid waste is accepted by SA Water into SWDS. This approval may be withdrawn at SA Water's discretion if the waste proves to be detrimental to the plant operation.	Licensed liquid waste contractor
3.	Tanker driver induction All tanker drivers delivering liquid waste to the SWDSs must be inducted at each individual site. They must present this information with a sign-off sheet (see Figure 1) and carry ID at all times. If a driver has not been inducted, they must leave the premise and contact our Hauled Waste Officer. Drivers will not be permitted to discharge waste until an induction has been completed.	Tanker driver

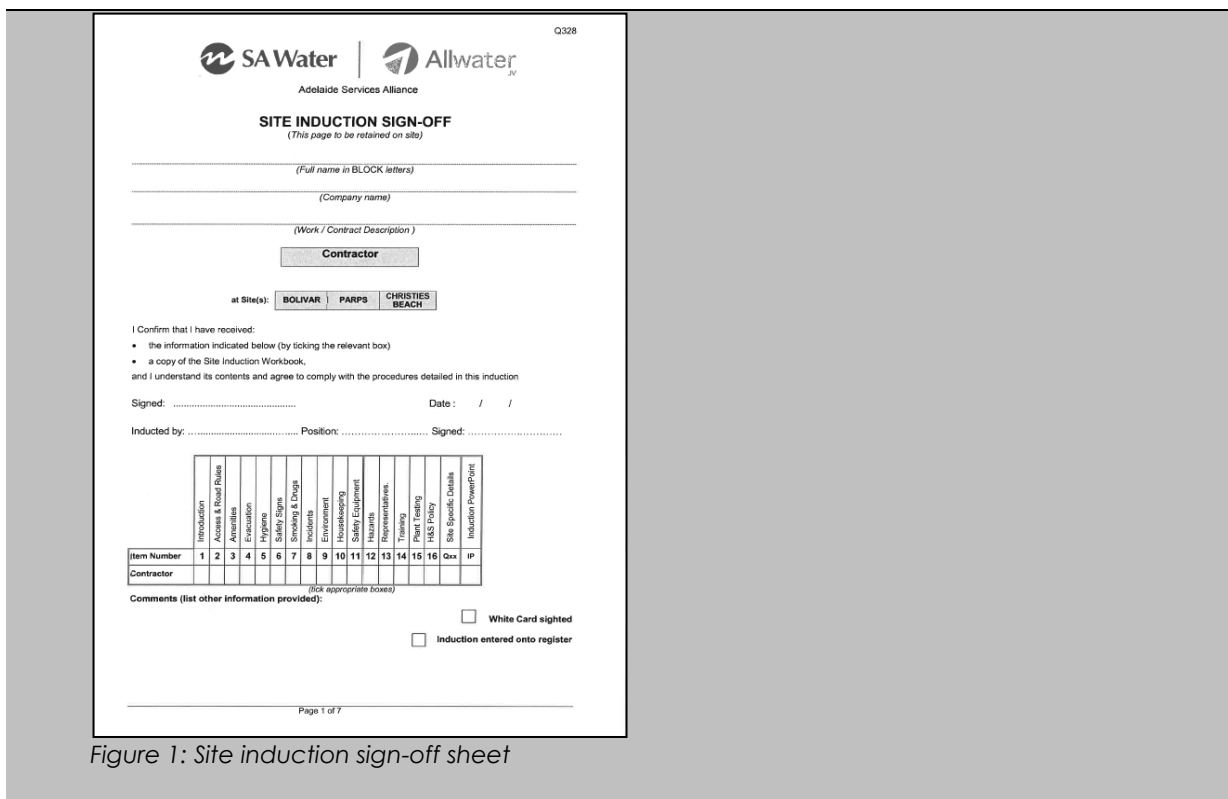


Figure 1: Site induction sign-off sheet

4. **Direct unauthorised tanker driver to leave site and seek SA Water approval**

If required, Allwater or our Hauled Waste Officer shall direct the tanker driver to vacate the site and contact our Trade Waste team for an authorisation application or to arrange an induction. A liquid waste hauler authorisation and a completed induction are required before waste can be accepted.

Allwater/
Hauled
Waste
Officer

5. **Liquid waste must be acceptable to dispose at SWDS**

We will accept the following domestic liquid hauled waste:

- septic tank sludge
- septic tank effluent/portable toilet contents.

This wastewater must be within the limits stipulated in your discharge authorisation. The hauler is responsible for ensuring their waste is compliant at all times.

Compliance sampling carried out by our Hauled Waste Officer will ensure waste is compliant and properly categorised.

Licensed
liquid waste
contractor/
Hauled
Waste
Officer

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6. **Unacceptable liquid waste is to be removed from site and disposed of in an alternate location** Hauled Waste Officer
Anything unsuitable for the SWDS are wastes that do not comply with the limits of standard acceptance such as grease, oil, high heavy metals and high hydrocarbons.

For further information please contact our Hauled Waste Officer to determine if your waste is suitable. Wastes that are not suitable need to be removed to licensed liquid waste disposal companies for further treatment.

7. **Take a sample and test the pH** Tanker driver
The liquid waste tanker driver will check each tanker load by using pH test paper or an electronic pH meter.

8. **Confirm the pH is within acceptable range** Tanker driver
The acceptable pH range is between 6.0-10.0. Ideally the pH should be around 7.0, to minimise the impact on the sewer network and the receiving. The pH will be recorded on the septic tank receipt form when it is required.

9. **Adjust incorrect pH** Tanker driver
If the pH of the waste is less than 6.0 the tanker driver must correct the pH with alkali to the required specification before transporting the waste to the SWDS. This allows thorough mixing before discharge. The addition of a suitable alkali, such as lime, will raise a low pH to an acceptable range. A high pH will need the addition of an acid to adjust to a suitable level.

10. **Arrive at waste disposal station and connect hose** Tanker driver
Connect the hose correctly (see Figure 2) and ensure there is no damage to hose or seal to prevent environmental spills. A solid green light will let drivers know that the station is ready to accept waste.



Figure 2: Cam-lock connection between tanker and SWDS discharge point

11. **Swipe ID Card** Tanker driver
Tanker driver swipes the appropriate card (for the category of waste to be discharged) over the card reader located on the cabinet at the septic waste disposal station (see figure 3).



Figure 3: Swipe card reader

12. **Select waste category**

Tanker driver

Tanker drivers select the relevant waste category corresponding to the domestic liquid waste type being discharged. Only one selection is to be made each time waste is disposed. The corresponding waste type is selected by pressing the black button under one of the categories type 1, type 2 (Type 3 is for non-domestic waste only) - refer to figure 4. The panel is located on the front of the cabinet at the SWDS.



Figure 4: Selection buttons to determine corresponding waste type

13. **Valve will open and discharge will commence**

Tanker driver

The valves open, allowing discharge by gravity of the tanker contents into the SWDS. The green light will start to flash indicating an acceptance of waste to the system and that the system is actively performing an activity.

The 'flow rate monitor' will also indicate flow. Discharge may be interrupted if:

- the pH is too low or too high; or
- the pipe work is/ becomes blocked; or
- the conductivity is high (Bolivar/Christies); or
- power fails

If an interruption occurs, the driver contacts the on-site plant operator / hauled waste officer to rectify the fault, or vacates the premises and adjusts out of specification liquid waste.

Contact the Hauled Waste Officer in the event of high conductivity domestic waste for further assessment.

14. **Complete discharge and ensure site is clean**

Tanker driver

Once the waste has been transferred, the red stop button must be pushed to end the cycle. The total volume discharged will be displayed on the monitor and the tanker driver must safely disconnect the hose from truck end. The tanker driver must take the following actions to ensure the site is left in an acceptable condition after discharge is completed:

- hose down any waste residues;
- pick up and dispose of plastic and rags;
- remove any rubbish from the area and dispose of in the bins provided;
- roll hose up in correct position

15. **Fill out septic tank receipt form and leave in box provided**

Tanker driver

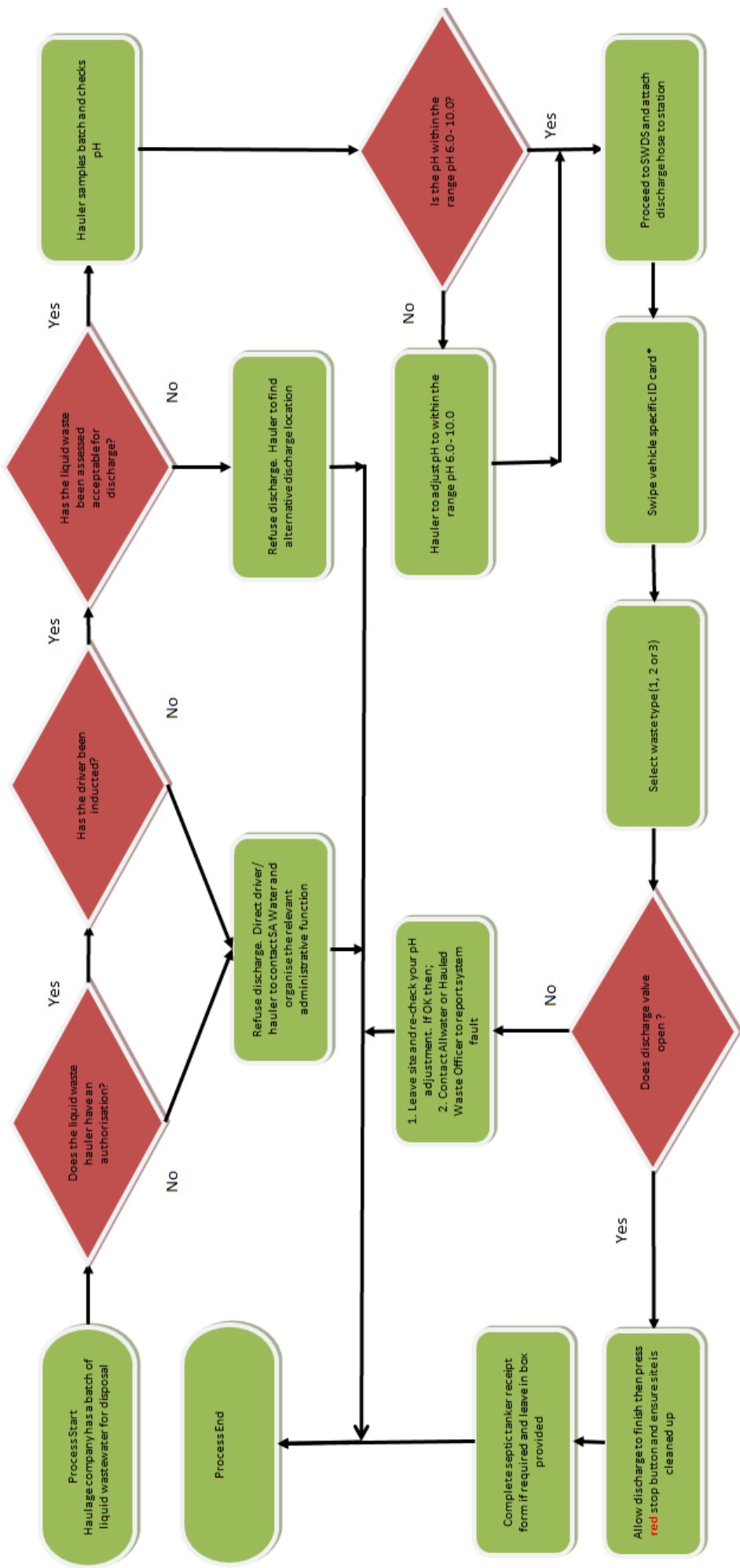
Septic tank receipt forms (Figure 5) must be complete and placed in the records box provided. The following information is required:

- Company name
- Date of disposal
- Time of disposal
- Volume disposed (Litres)
- pH of each load
- Description of the waste
- Waste Type
- Waste collection location
- Driver's signature

Form 1389		SEPTIC TANK RECEIPT ADVICE			ORIGINAL
		SOUTH AUSTRALIAN WATER CORPORATION G.P.O. BOX 1039, ADELAIDE 5001			A 35551
RECEIVING DEPOT				Date	19
Received from (Contractor)		Time		a.m.	p.m.
Postcode					
Vehicle Registration No.	Tanker Volume (Kilolitres)	pH	Charge	Voucher No.	
.....	
Comments			Signature of Departmental Officer		
.....			Certified Correct		
.....			Signature of Contractor's Operator		

Figure 5: Septic tank receipt advice form

Note: In comments, record if the waste is from SA Water or Allwater discharge (Contact the hauled waste officer for Allwater loads)



*A green light indicates the system is ready

* A green flashing light indicates the system is busy

* A red light indicates a fault