

Horse Stable Areas Trade Waste Guideline

KEY TRADE WASTE QUALITY REQUIREMENTS

PARAMETER	GENERALLY ACCEPTED LEVEL
pH	Between 6-10 units
Suspended Solids	<500mg/L
Total Dissolved Solids	<1,500mg/L
Flow rate to sewer	Dependant on capacity of receiving sewer

Note: Discharge limits may be varied under certain circumstances for individual dischargers

INTRODUCTION

Trade waste discharges from horse stabling areas have the potential to adversely affect the sewerage system. Waste waters may contain high levels of suspended solids and nutrients such as nitrogen and phosphorous. Appropriate management practices at each site are therefore necessary.

For the purpose of this Guideline 'horse stable area' refers to any facility or associated activity relating to the housing and movement of horses on hard paved areas.

DESIGN / INSTALLATION

- The facility is designed to minimise the area that is unroofed and is therefore limited to the handling of horses (i.e. yarding, washing, loading/unloading, and other movement of horses).
- Dry clean/sweep to remove solids from work areas prior to wash down.
- The area draining to sewer is constructed of an impervious material, with bunding to contain all waste / wash down water and exclude other stormwater runoff from entering the 'dirty' area from surrounding surfaces.

- Wash water and initial, 'first flush' stormwater falling on the 'dirty' area will be accepted to sewer after appropriate pre-treatment. The 'first flush' volume is to be specified by the [Environment Protection Authority \(EPA\)](#). A rain gauge coupled to the control panel monitors rainfall events.
- When a rainfall event exceeds the 'first flush' amount, further stormwater flow is automatically directed away from sewer to the stormwater drain. **Activities likely to introduce new contamination during rainfall events are not permitted.**
- Discharge of collected wash water and 'first flush' rainfall to sewer is delayed until after a rainfall event has passed so as to avoid flooding of the sewer.
- All tanks containing the waste water and treatment chemicals are bunded in accordance with [Trade Waste Bunding Guideline](#).

TYPICAL PRETREATMENT REQUIREMENTS

All wash water and contaminated 'first flush' stormwater is directed to sewer via;

- A suitably sized silt trap and/or screen with maximum 5mm mesh size, discharging via a stormwater bypass chamber to a pump chamber.

Reviewed January 2012

Further information
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- A float operated pump to transfer waste water to the settling tank (above ground).
- A settling pit / treatment tank of appropriate size to permit settling of solids from the unroofed 'dirty area' as well as wash down waste water.
- Chemical additions (e.g. coagulants and flocculants) into the solids settling tank if the suspended solids concentration exceeds the [Standards of Acceptance of Liquid Waste to Sewer](#).
- Waste water from the settling pit overflows to a holding tank of sufficient capacity to hold the 'first flush'. A solenoid valve on the outlet, coupled to a control panel, opens to discharge waste water to the sewer once the 'peak flow' has passed the site.
- All clean stormwater (i.e. that falling after the 'first flush') is diverted away from sewer and discharged to the stormwater system.
- See Figure 1 for a typical layout of a contaminated stormwater treatment system.

FEES AND CHARGES

An annual fee for discharge of stormwater to sewer will apply. A current fee schedule is available from the Trade Waste Branch.

ADDITIONAL INFORMATION

Mains Water Protection (AS/NZS3500 – 2003 Part 1),
[Trade Waste General Policy](#), [Trade Waste Blind Tank Guideline](#),

[Trade Waste Batch Treatment Guideline](#),

[Trade Waste Contaminated Stormwater Guideline](#)

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Figure 1: CONTAMINATED STORMWATER TREATMENT SYSTEM

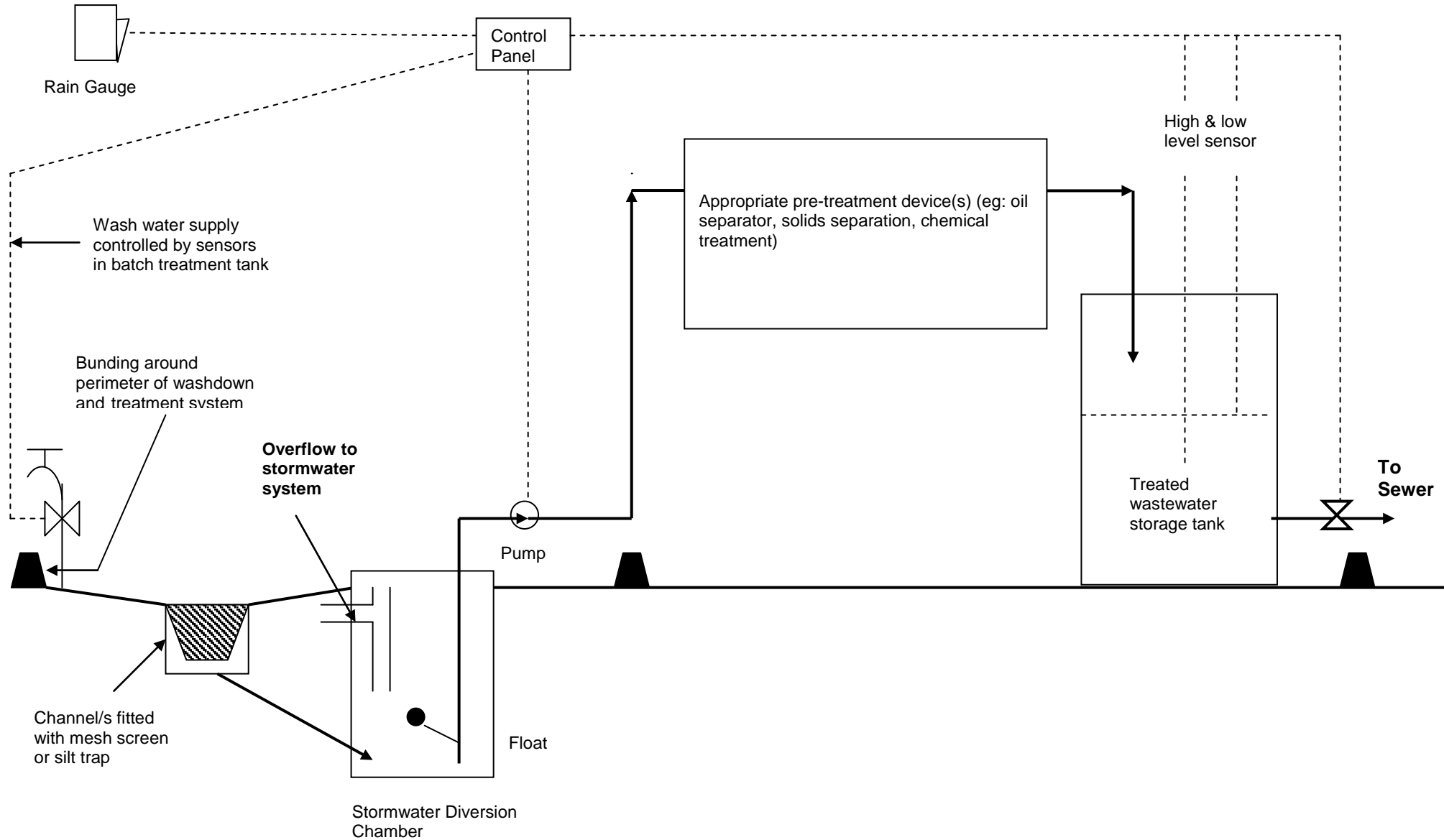
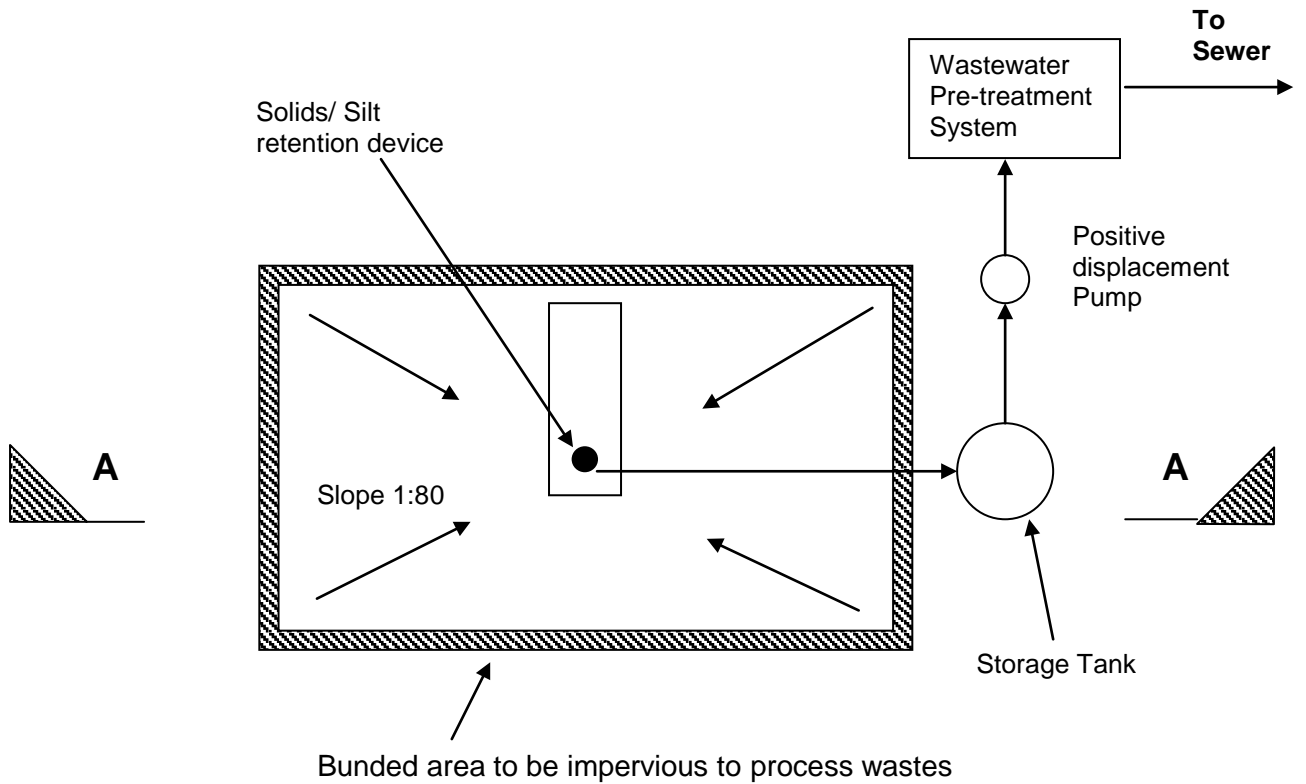


Figure 2: TREATMENT AND DISPOSAL

PLAN VIEW



SECTION (A – A) VIEW

