cleanawater
Award Winning Water Treatment & Water Recycle Systems Since 1996

Product Guide

FIRST FLUSH DIVERSION SYSTEMS

FUNCTION

Cleanawater first flush diversion systems are a perfect above ground solution for uncovered wash areas. Our systems ensure that the first 10mm (or designated amount) of rainfall flushes the wash area to sewer, with subsequent rainfall then discharged to stormwater as required by industry guidelines and regulations. First Flush diversion systems are required by regulations to ensure that sewer systems are not overloaded with rainwater from open air wash area's exceeding 20 square meters.

IDEAL FOR & COMMONLY USED IN

- Un-roofed open wash bay areas
- Vehicle wash down and degreasing bays
- Mining, crane and heavy equipment workshops
- Fuel, chemical or external bunded areas
- Service stations

PRODUCT RANGE

Cleanawater first flush diversion systems are built to meet all your uncovered wash down area requirements. Coupled with Cleanawater TS series oil/water/solids separators; complete above ground first flush diversion systems can be tailored to meet any requirements.

BENEFITS OF A CLEANAWATER SYSTEM

- Durable, reliable, compact and guaranteed performance
- Quick and easy to install with minimal maintenance required
- Total above ground solution for easy service access
- Low cost with finance and leasing packages available
- Full client support with after sales and maintenance service
- Fully automated diversion operation, no adjustments required

Smart Water Fund

AWA Australian Car Wash Association

winner savewater awards

TOTAL PROJECT MANAGEMENT

Complete site evaluation. Pits, civil works, bunding systems, customised plumbing and electrical works.

Head Office - Freecall: **1800 353 788** Phone: **(03) 9878 3888**
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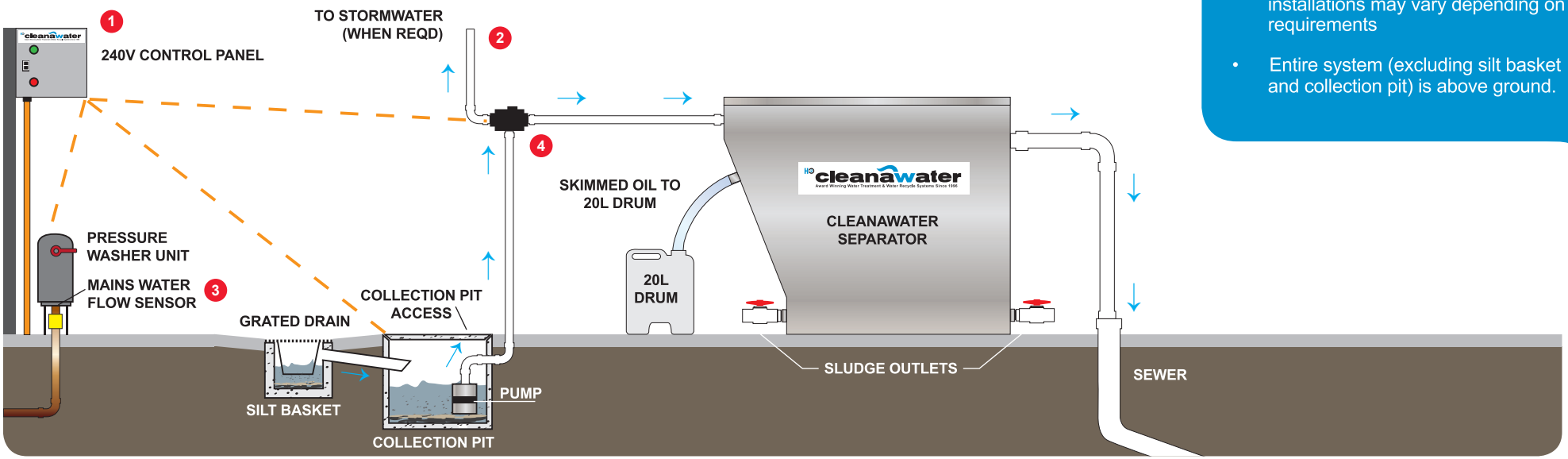
FIRST FLUSH DIVERSION SYSTEM SCHEMATIC

1. During vehicle washing, water obtained from the mains supply is feed through a flow sensor to the pressure washer. This flow is monitored by the controller and can continue indefinitely. In this "wash mode" the control valve on the inlet side of the separator is actuated to ensure that the wash water is pumped to the separator (and sewer) at all times that the pressure washer is in use.

2. When mains water ceases to flow through the flow switch the controller senses that washing has ceased. If rain then occurs at any time, and there is no mains water flow, any operation of the sump pump will be recorded by the controller as the start of the "flush" cycle.

3. A timer circuit is activated in the controller which is linked to the pump operation and will ensure that the pump operates for a preset total time to flush the wash surface (to separator and sewer). The pump may stop and start a number of times during this cycle, and the control system will cumulate the total active pumping time until the preset time is reached.

4. At the completion of the preset pumping period the first flush diversion system will switch from "separator to sewer" to "stormwater". The system will then stay in the "stormwater" mode until rain ceases and mains water use recommences.



NOTES

- First flush diversion system is required if wash pad exceeds 20m2 and is an uncovered area. Check with your local water authority for your individual regulations as they may vary.
- Schematic is not to scale
- Typical installation only, system installations may vary depending on requirements
- Entire system (excluding silt basket and collection pit) is above ground.

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