



GLOBAL WATER RESOURCES (“GLOBAL WATER”)

DESIGN STANDARD

AUTOMOBILE WASH AND REPAIR OPERATIONS

PURPOSE

This Design Standard defines the requirements for managing waste discharged directly or indirectly into a sewer connected to a wastewater facility from automobile wash and repair operations employing automobile wash and repair as a primary or secondary business operation.

This Design Standard applies to:

- a. Operators of automobile washes with floor drains that collect oil, grease and sand.
- b. Operators of automotive repair shops with floor drains that collect oil, grease and sand as a secondary influent.

DISCHARGE REGULATIONS

An operator of an automobile wash and/or repair operation must not discharge waste, which at the point of discharge into a sewer, contains:

- a. Oil and grease concentrations that are in excess of 100 milligrams per liter as analyzed into a grab sample;
- b. Sand, rocks or dirt which could interfere with the collection system.
- c. Additives used to break down surfactant loads shall comply with Design Standard, Definitions.
- d. At no time shall rain water be allowed to enter the collection system via floor drains.

SAND AND OIL INTERCEPTORS

Sand and oil interceptors are required to be installed and maintained by the owner of the automobile wash or repair operation within the collection system of Global Water



facilities. Sand and oil interceptors shall conform to the requirements of this Design Standard.

Design

Sand and oil interceptors shall be designed by using the 2000 International Plumbing Code (IPC) IPC 1003.3.4.2

Sand and oil interceptors shall have a minimum capacity of six (6) cubic feet for the first 100 square feet of area to be drained, plus 1 square foot for each additional 100 square feet of area to be drained.

Installation

A sand and oil interceptor must be located so that it is readily and easily accessible for inspection and maintenance. A sampling point shall be installed as follows:

- a. A sampling tee shall be located at the outlet of the sand and oil interceptor or downstream of the interceptor at a location upstream of any discharge of other waste;
- b. The sampling tee shall not be less than 10.2 cm (4 inches) in diameter, and shall be installed so that it opens in a direction at right angles to and vertically above the flow of the sewer pipe; and
- c. The sampling tee shall be readily and easily accessible at all times for inspection.

Maintenance

An operator of an automobile wash or repair operation shall maintain all sand and oil interceptors in accordance with the manufacturer's recommendations so that the sand and oil interceptor functions properly.

An operator of an automobile wash or repair operation must not permit sand and oil to accumulate in a sand and oil interceptor in excess of the lesser of six (6) inches or 25% of the wetted height of the interceptor.

An operator of an automobile wash or repair operation shall not dispose of oil and grease from an interceptor to a sewer. All cleaning shall be accomplished by employing



vactor trucks, or other means, to preclude any sand or oil from entering the collection system.

An operator of an automobile wash or repair operation must not use or permit the use of chemical agents, enzymes, bacteria, solvents, hot water or other agents to facilitate the passage of sand or oil through a sand and oil interceptor.

Connections to Sand and Oil Interceptors

An operator of an automobile wash or repair operation shall have the following fixtures connected to the sand and oil interceptor system:

- a. All floor drains, wash sinks and washing machines.

The following fixtures shall not be connected to a sand and oil interceptor:

- a. Toilets, urinals and hand sinks
- b. Storm drains

SAMPLING

At the request of Global Water, the operator of an automobile wash or repair operation shall confirm the operation of any sand and oil interceptor via analytical testing. This testing shall be performed by an accredited laboratory, and paid for by the owner of the sand and oil interceptor.

RECORDKEEPING AND RETENTION

An operator of an automobile wash or repair operation must keep a record at the automobile wash or repair operation of all sand and oil interceptor inspection and maintenance activities including:

- a. The date of inspection or maintenance;
- b. The maintenance conducted;
- c. The type and quantity of the material removed from the sand and oil interceptor; and



- d. The location of disposal of the material removed from the sand and oil interceptor.

The records shall be retained for a period of two years, and shall be available on request to Global Water.