



## **Sand, Oil & Grease (SOG) Policy Requirements**

### **1. Purpose**

The purpose of this document is to minimize the introduction of SOG into the City's Wastewater Collection System. Accumulation of SOG can adversely affect the City's Wastewater Collection System by producing blockages which can result in sanitary sewer overflows.

### **2. Applicability**

This document shall apply to all nonresidential establishments that discharge SOG in any concentration, including but not limited to car washes, auto service shops, laundromats, and elevator pits. These requirements shall also include:

- 2.1 New Construction
- 2.2 Interior remodeling to accommodate expansion or operational modifications
- 2.3 Changes of ownership / occupancy
- 2.4 Facilities which are experiencing difficulty in achieving compliance with maintenance and / or wastewater discharge limitations
- 2.5 Facilities adversely affecting the City's Wastewater Collection System and/or Wastewater Treatment Facility, as determined by the City.
- 2.6 Existing facilities without grease interceptors unless specifically exempted by the City

Establishments described above shall discharge all process wastewater to a City approved SOG interceptor.

Each business establishment for which an interceptor is required shall have an interceptor serving only that establishment. Common or shared interceptors are not permitted.

All under slab construction requires drawings from a professional engineer and must be approved by the City of Kalispell's Industrial Pretreatment coordinator (IPC) prior to construction. The City's IPC shall inspect/approve all pretreatment related construction prior to backfilling.

**3. Business Owner’s / Discharger’s Responsibilities:**

The standards set forth in this section are minimum standards; therefore, this section does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, nor unauthorized discharge of pollutants.

- 3.1 Implementation and adherence to the City’s SOG Best Management Practices (BMP’s).
- 3.2 Installation and other requirements for SOG interceptors:

- A. Sizing shall comply with the following SOG Sizing Calculation: The minimum capacity of a SOG is 500 gallons. The maximum size of a SOG is 2,500 gallons. Facilities requiring SOGs larger than 2,500 gallons shall install multiple interceptors in series to accommodate the additional system load.

*The Formula for SOG is:*

$$SOG\ Capacity = \frac{Process\ floor\ space\ (sq.ft.) \times 7.48\ gallons}{Use\ factor\ from\ Table\ below}$$

Use Category	Use Factor
Truck Wash	3 square feet
Heavy Equipment Wash	
Commercial Automatic Car Wash	
Commercial Car Wash (hand sprayer)	6 square feet
Automotive Service Shop	15 square feet
Storage Area	100 square feet
Warehouse	
Parking Garage	1,000 square feet

Contact the Industrial Pretreatment Coordinator for Use Categories not listed.

- B. Interceptor/sample port design shall comply with the City’s Standards for Design and Construction drawings “PT.3, PT.4, and PT.7”. Waterproofing all pretreatment related concrete structures shall conform with City’s Standards for Design and Construction drawing “SA.3”.
- C. Installation, operation and maintenance per manufacturer’s specifications.
- D. Interceptor shall be located in an area that allows for easy cleaning and inspection. Lids shall be installed in a manner that allows for easy removal. Concrete lids are prohibited.
- E. SOG interceptors and sample ports located in traffic areas shall meet H-20 loading requirements.
- F. City’s IPC shall determine cleaning frequency.
- G. Do not discharge the top level of a parking garage to an SOG if it is exposed to storm events. This level shall be drained to the stormwater system.

### 3.3 SOG Interceptor Abandonment

Abandoned SOGS shall be closed by:

- A. Removal of entire contents of SOG.
- B. Capping of the inlet and outlet pipes.
- C. Filling of the empty SOG with an appropriate fill material, e.g., sand.
- D. Permanently securing all openings to the interceptor, e.g., cement, weld.

## **4. City of Kalispell's Responsibilities:**

### 4.1 Inspections

Authorized personnel of the City, bearing proper credentials and identification, shall have the right to enter upon all properties subject to this program, at any time and without prior notification, for the purpose of inspection, observation, measurement, sampling, testing or record review, as part of this program.

### 4.2 Enforcement

Enforcement of these regulations shall be in accordance with the provisions of the City's Public Works "Pretreatment Program Enforcement Response Plan." The enforcement response is based on the type of violation(s) and the number of occurrences. Failure to comply with this program will be grounds for penalty imposition and/or discontinuance of service.

### 4.3 Permitting (Not Applicable at this time) – Memorandum of Understanding in place of as follows:

Permits shall be in place and enforced for all businesses that meet the following criteria:

- A. Businesses which are assessed surcharges for high strength waste as defined in the City of Kalispell's Resolution NO. 5968
- B. Businesses with a history of noncompliance with this policy and / or the City's FOG BMP's, as determined by the City.

Permitting shall follow all requirements described in the City of Kalispell's Ordinance \_\_\_\_\_. Articles 4-6.

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## **SOG Best Management Practices (BMP's)**

1. Ensure that your establishment is equipped with a properly sized and vented grease interceptor and sample port.
2. SOG Interceptors shall have oil absorbent socks / pillows in place at the liquid surface in the primary chamber. These socks / pillows shall be the type that absorb oil and repel water. Socks / pillows shall be replaced once saturated with oil.
3. Laundry equipment in commercial buildings shall discharge into a wire basket that is installed upstream of the interceptor. The mesh on the basket shall have openings no larger than 3/16" in size. The baskets shall be located where they can be easily removed for daily cleaning.
4. Elevator pits with sump pumps shall not be directly connected to the sanitary sewer system. Elevator pit wastewater shall discharge into an interceptor sized to handle the maximum flow rate of the sump pump, prior to discharging into the sanitary sewer system.
5. All hazardous liquid products shall have secondary containment in place to prevent spills reaching the sanitary and/or storm sewer.
6. Wipe up any spilled liquids. Sweep and mop floors. Do not rinse spills or sweep debris into the interceptor.
7. Use phosphate free soaps / cleaners. These products are prohibited.
8. Inspect the interceptor regularly. Clean (pump out) interceptor before it becomes 1/3 full of sand, oil, or grease.
9. Observe the cleaning of the interceptor to ensure a proper job is done. Visually inspect to ensure tee pipes are secure and walls are in good condition.
10. Keep a spill kit available for any spills. Place used absorbent material in sealed containers and place in a dumpster.
11. Keep an updated copy of the "Interceptor Maintenance Log". Track all maintenance (cleaning and repairs) performed on the interceptor. Keep receipts from any contracting companies used. These records shall be kept available for inspection for a minimum of (3) years.
12. Train staff on SOG BMP's. Document training.
13. Meet with the City's Pretreatment Department to establish an adequate cleaning frequency and set up a cleaning schedule with a pumping contractor.
14. Contact the City's Pretreatment Department with any questions at (406) 758-7817.

