



CONSIDERATIONS

- Soils
- Area Required
- Slope
- Water Availability
- Aesthetics
- Hydraulic Head
- Environmental Side Effects



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DESCRIPTION:

Oil/Water separators are designed to remove a specific group of contaminants: petroleum compounds and grease. However, separators will also remove floatable debris and settleable solids. Two general types of oil/water separators are used: conventional gravity separator and the coalescing plate interceptor (CPI).

APPLICATION:

- ▶ Applicable to situations where the concentration of oil and grease related compounds is abnormally high and source control cannot provide effective control. The general types of businesses where this situation is likely are truck, car, and equipment maintenance and washing businesses, as well as businesses that perform maintenance on their own equipment and vehicles.
- ▶ Public facilities where separators may be required include marine ports, airfields, fleet vehicle maintenance and washing, facilities, and mass transit park-and-ride lots.
- ▶ Conventional separators are capable of removing oil droplets with diameters equal to or greater than 150 microns.
- ▶ A CPI separator should be used if smaller droplets must be removed.

INSTALLATION/APPLICATION CRITERIA:

- ▶ Sizing relates to anticipated influent oil concentration, water temperature and velocity, and the effluent goal.
- ▶ To maintain a reasonable separator size, it should be designed to bypass flows in excess of first flush.

LIMITATIONS:

- ▶ The lack of data on oil characteristics in stormwater leads to considerable uncertainty about performance.
- ▶ An air quality permit may be required.

MAINTENANCE:

- ▶ Clean frequently of accumulated oil, grease, and floating debris.

TARGETED POLLUTANTS

- Sediment
- Nutrients
- Heavy Metals
- Toxic Materials
- Oxygen Demanding Substance
- Oil & Grease
- Floatable Materials
- Bacteria & Viruses
- High Impact
- Medium Impact
- Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- Training
- High
- Medium
- Low