

FABRICATED METAL PRODUCTS INDUSTRY FACT SHEET #2 Storm Water Pollution Prevention



Pima County Department of
Environmental Quality
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Storm-Water Pollution Prevention Requirements

The Arizona Department of Environmental Quality (ADEQ) has established requirements for controlling storm-water discharges from industrial facilities — including businesses engaged in fabricating metal products. These requirements are intended to protect all rivers, dry washes, and other water bodies in Arizona, and are part of the Arizona Pollutant Discharge Elimination System (AZPDES) permitting program.

Storm-water permittees are required to prepare and implement a Storm-Water Pollution Prevention Plan (SWPPP). The SWPPP must identify structural and non-structural controls or work practices that will be put in place to minimize impacts caused by offsite storm-water discharges. The following items must be addressed.

1. *Site Drainage Map* — identify the locations of any of the following activities or sources:
 - Metal fabricating areas
 - Storage areas for raw metals
 - Receiving, unloading, and loading areas
 - Heavy equipment storage areas
 - Treatment, storage, or waste disposal areas
 - Liquid storage tanks
 - Finished products storage areas
2. *Potential Pollutant Sources* — describe the potential for the following to contribute pollutants to storm-water discharges:
 - Onsite waste storage or disposal
 - Vehicle / equipment maintenance areas
 - Liquid storage tanks
 - Materials storage areas
3. *Effective Operating Measures* — describe measures that will prevent or minimize contamination of storm-water run-off from these following areas:
 - Vehicle/equipment storage, cleaning, or maintenance
 - Liquid storage tanks and/or hazardous waste storage
 - Materials storage
 - Paints and painting equipment
 - Metal fabricating
 - Loading/unloading

4. *Inspections* — perform regular inspections of all areas that may be subject to storm-water run-on & run-off
5. *Employee Training* — address the potential impacts that storm water could have on the following procedures or activities (if applicable):
 - Storage / disposal of chemicals, metals, etc.
 - Metal fabricating
 - Painting
 - Day-to-day operations

Best Management Practices

Best management practices (BMPs) are an integral part of a SWPPP. Storm water can become contaminated when rain mixes with fuel, grease, metals, paint, and many other metal fabricating-related chemicals. BMPs are developed to reduce the chance that storm water will become contaminated and released offsite.

Locate critical areas on a map or plan of the facility where chemicals and other materials are stored or used. Identify any materials or waste products that are exposed to rain or water flow. Review records to learn of past spills; conduct inspections to identify current leaks and spills. With this information, BMPs can be developed for your facility. A few BMPs are listed below:

METAL FABRICATING AREAS

Keep these areas clean through frequent sweeping to avoid accumulation of steel ingots, fines, and scrap.

RAW METALS & FINISHED PRODUCTS

Store under a covered area and on an impervious surface to minimize contact with rain and run-off.

RECEIVING, UNLOADING, AND LOADING AREAS

Enclose, where feasible, using either curbing, berming, diking, or other accepted spill containment systems.

METAL WORKING FLUIDS

Store used fluids, containing fine metal dust, indoors; use tight sealing lids on all containers; use absorbents to confine or contain spills; and establish a recycling program for used fluids.

VEHICLE AND EQUIPMENT MAINTENANCE

Place catch pans under leaking vehicles. Transfer used fluids to proper containers. Use absorbent materials to clean up oil spills. Sweep up and dispose of used absorbent materials. Do not pour liquid waste down floor drains, sinks, or outdoor storm drain inlets.

