# Identify Your Facility's Environmental Aspects

### What

Environmental aspects are the elements of your facility's activities that either impact the environment or could potentially impact the environment. For example, a spill from a parts washer is an environmental aspect because of its potential impact on water or land.

## Who

Assign people with process knowledge to determine your facility's environmental aspects. Or, assign the EMS Team to this task, with help from process-specific employees. Assign someone, such as the EMS Coordinator, to ensure that your environmental aspects are reviewed regularly to reflect facility changes, like new processes or materials.

# Why

Knowing your facility's environmental aspects allows you to manage your facility's impacts and potential impacts on the environment.

## How

There are several ways to identify your environmental aspects, such as:

- List the operations that fall within the scope of your EMS.
- Diagram your facility's inputs and outputs or processes to identify their environmental aspects.
- For each of your facility's operations, list the environmental aspects (environmental inputs such as water, energy, and raw materials) and environmental outputs (such as those that are discharged to water, air, or land).

Use Sample Form 2: Environmental Aspects and Impacts, below, to list the environmental aspects by operation, along with their actual or potential impacts (quantified to the extent possible).

Operation	Input/Out	Environmental Aspect (quantify if possible)	Environmental Impact
Material receiving/ storage	Cardboard boxes	Cardboard waste (500 lb./mo.)	Depletion of landfill space, air pollution from transport
	Wood pallets	Wood waste (500 lb./mo.)	Depletion of landfill space, air pollution from transport
	Plastic film	Plastic waste (70 lb./mo.)	Depletion of landfill space, air pollution from transport
	Energy (gasoline- powered fork lifts)	Air emissions (6 gal gasoline/mo.)	Depletion of oil, air quality degradation
Surface preparation	Abrasive blasting (cabinet)	Spent blasting media (average 50 lbs/mo.), particulate air emissions	Air quality degradation, depletion of landfill space
	Stripping solutions, acids, caustic cleaning solutions	Spent acids and solutions	Depletion of landfill space, air pollution from transport, air quality degradation, water quality degradation

### **Sample Form 2: Environmental Aspects and Impacts**

Operation	Input/Out	Environmental Aspect (quantify if possible)	Environmental Impact
	Trichloroethylene degreaser	VOC air emissions, spent degreasing solutions	Depletion of landfill space, air pollution from transport, water quality degradation, air quality degradation
	Energy (2.500 kWh/mo. For all operations and administration)	Air emissions	Depletion of energy-producing resources, air quality degradation
	Rinse water	Wastewater sent to pretreatment unit, then to POTW (gal/mo.)	Depletion of water supply, water quality degradation
Metal finishing processes	Zinc and nickel plating	Spent plating solution, air emissions, sludge	Depletion of landfill space, air pollution from transport, air quality degradation, depletion of zinc and nickel
	Hard chrome plating	Spent plating solution, air emissions, sludge	Depletion of landfill space, air pollution from transport, air quality degradation, depletion of chromium, worker health
	Rinse water	Rinse water sent to pretreatment unit, then POTW	Depletion of water supply, water quality degradation
	Energy	Air emissions	Depletion of energy-producing resources, air quality degradation
Wastewater pretreatment	Rinse water	Treated effluent, sludge	Depletion of water supply, water quality degradation, depletion of landfill space, air pollution from transport
	Spent acids	Treated effluent, sludge	Water quality degradation, depletion of landfill space, air pollution from transport
	Spent caustic cleaners	Treated effluent, sludge	Depletion of natural resources, water quality degradation,
	Treatment chemicals	Treated effluent, sludge	Depletion of landfill space, air pollution from transport
	Sulfides and other air contaminants	Air emissions	Air quality degradation, worker health
	Energy	(See above)	(See above)
Laboratory operations	Lab wastes	Paper waste (40 lb/year or 6.67 lb/1000 units)	Depletion of landfill space, air pollution from transport
	Testing	Air emissions	Air quality degradation
	Energy	(See above)	(See above)
Building and ground maintenance	Landscaping	Water use	Depletion of water supply
	Lawn maintenance	Herbicide and insecticide runoff and/or leaching	Water quality degradation

Operation	Input/Output	Environmental Aspect (quantify if possible)	Environmental Impact
	Energy from gasoline	Air emissions	Air quality degradation, depletion of oil
General administration	Paper/office trash	Paper waste (40 .b/year or 6.67 lb/1000 units)	Depletion of trees, depletion of landfill space
	Product transportation	Air emissions	Air quality degradation, depletion of natural resources, depletion of landfill space (tires, etc.)
	Energy	(See above)	(See above)