

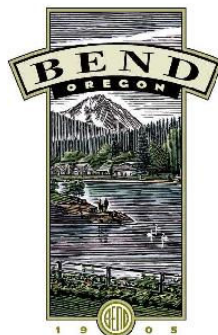
City of Bend

Illicit Discharge Minimization Best Management Practices Manual

Simple Steps to Protect Your Drinking Water and Our Beautiful Deschutes River



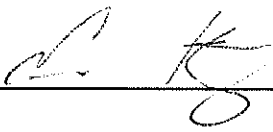
October 2014



City of Bend, Oregon
575 NE 15th Street
Bend, Oregon 97701
541-317-3000

Given that this City of Bend Illicit Discharge Minimization Best Management Practices Manual (Illicit Discharge Manual) is directly referred to in Bend Code Title 16.20, I certify that I have reviewed and approved this document as meeting the goals of Bend Code Title 16 to provide acceptable public guidance on illicit discharge minimization.

Signed,



Eric King, City Manager

4/30/13
Date

Note: The October 2014 revisions reflect only minor changes to improve formatting consistency and to update contact information.

The City of Bend would like to thank the City of Boise, Idaho for the original concept and best management practices utilized in this manual.

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Abbreviations and Acronyms

BMP: Best Management Practices

EPA: United States Environmental Protection Agency

MEP: Maximum Extent Practicable

MS4: Municipal Separate Storm Sewer Systems

NPDES: National Pollutant Discharge Elimination System

UIC: Underground Injection Control

WPCF: Water Pollution Control Facility

Introduction

Purpose

The purpose of this manual is to define minimum requirements and establish best management practices (BMPs) to reduce unauthorized discharges into storm drains within the City of Bend. However, these BMPs may not apply for all situations. Compliance with these BMPs does not relieve those that discharge to storm drains the responsibility to comply with additional regulations established by Federal, State, and other local agencies owning and operating municipal separate storm sewer systems (MS4s) or Water Pollution Control Facilities (WPCF).

Development and Modification

This manual was developed based on Best Management Practices that have been proven useful and practicable in other communities similar to Bend. It was initially developed in conjunction with internal City Stormwater Coordinators and the Stormwater Quality Public Advisory Group. The draft was made available for a public comment period before finalization and acceptance by the City Manager. This manual shall be revised and updated as necessary and as approved by the City of Bend Stormwater Coordinators and City Manager to reflect corrections and advances in the fields of storm drain protection and water resources management. Users who request changes to this manual shall provide data to the City of Bend that supports justification for the change.

Legal Authority

The Clean Water Act of 1972, as amended in 1987, prohibits the discharge of pollutants into waters of the United States unless the discharge is in compliance with the National Pollutant Discharge Elimination System (NPDES) permit. The City of Bend is subject to the Phase II Stormwater NPDES permitting requirements. These federal regulations require the City of Bend to control pollutants in stormwater discharges to the “maximum extent practicable” (MEP) standard. MEP means the technology based standard established by Congress in Clean Water Act section 402(p)(3)(B)(iii). The MEP standard generally emphasizes pollution prevention and source control BMPs in combination with structural or system treatment methods serving as a backup.

Additionally the Federal Safe Drinking Water Act and Oregon OARs 340 Division 40 and 44 require that discharges towards groundwater through Underground Injection Controls (UICs) must meet effluent limits at the point of discharge. Within this regulatory context, the City of Bend has established BMPs that reduce pollutants that may be carried in stormwater runoff. Please be aware that other City codes have established stormwater BMPs that are required for new development and significant redevelopment, construction site discharge controls, and other pollution prevention programs. Laws that provide City of Bend with the authority to regulate drainage within the City’s jurisdiction include, but are not limited to constitutional authority as a municipal corporation to promulgate purpose modifications and addendum authority; and City Code Title 16.

The City of Bend Code titled Grading, Excavation, and Stormwater Management ordinance Title 16 gives the City of Bend authority to control and secure the City’s storm drains; and authorizes the City to adopt standards for storm drains. Title 16 also serves to protect and enhance the water quality of our water bodies, groundwater, and to control non-stormwater discharges to storm drains and reduce pollutants in stormwater discharges.

Section 16.20.30 identifies that “discharges from the following activities will be allowed subject to application of City of Bend Non-Stormwater Disposal Best Management Practices:

- Water line flushing and other discharges from potable water sources
- Landscape irrigation and lawn watering
- Uncontaminated groundwater infiltration
- Uncontaminated pumped groundwater
- Discharges from potable water sources
- Water from potable groundwater monitoring wells
- Draining and flushing of municipal potable water storage reservoirs
- Foundation drains
- Air conditioning condensate
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering
- Individual residential car washing
- Charity car washing
- Vehicle washing that does not use detergents or hot water
- De-chlorinated swimming pool and fountain discharges
- Incidental street wash water
- Routine external building wash-down and pavement wash waters that do not use detergents or hot water.
- Discharges or flows from emergency fire-fighting activities provided you take precautions, to the extent practicable, to protect injection systems during emergency fire-fighting activities. Wash down of spills into any underground injection system is prohibited.
- Discharges of treated water from investigation, removal, and remedial actions selected or approved by DEQ pursuant to Oregon Revised Statutes (ORS) Chapter 465 (Hazardous Waste and Hazardous Materials).
- Start-up flushing of groundwater wells; and
- Other similar temporary discharges of uncontaminated water.

Best Management Practices

The following City of Bend general stormwater requirements apply to these and all other storm drain uses:

- ❖ Use all reasonable measures to reduce pollutants entering storm drains (e.g., litter, detergents, waste, oil, grease, fertilizers, etc.)
- ❖ Properly store grease, oil, de-icing materials, and hazardous and non-hazardous substances to prevent leaks and spills from entering storm drains. Maintain pavement, sidewalks, parking lots, gas stations, and streets or roads to prevent the accumulation of pollutants that may enter storm drains. Do not throw any pollutant into any body of water except as otherwise permitted under local, State, or Federal law.

When possible discharge pool or spa water to the sanitary sewer. Otherwise, these discharges can be directed to a landscape area or adjacent storm drain after the chlorine residual has been reduced (e.g., wait three days and test to see if chlorine is less than 1.0 parts per million (ppm)) and after all debris and sediment has been swept along the flow path to the storm drain.

In addition, the property cleaning BMPs (See BMP Section 1) are recommended for all, and the Waste Disposal Requirements (pages 12 - 15) should be followed by all.

Commercial and Industrial BMPs

Commercial and industrial facilities must manage stormwater consistent with Federal, State and Local requirements. To determine what BMPs to use, the activities that occur at the facility must be identified. The BMP directory has been developed to guide commercial and industrial facility operators to the applicable BMPs.

All facilities shall meet the property cleaning requirements established in BMP Section 1.

BMP Directory

	Examples	Yes <input type="checkbox"/> No <input type="checkbox"/>
➤ Are there any non-stormwater discharges to drains?	<ul style="list-style-type: none"> • Process wastewater • Cooling waters • Wash water • Sanitary wastewater • Graywater 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 3 🗑 See Disposal Requirements
➤ Does outdoor storage, materials loading, unloading, or transfer occur for any raw materials, finished goods, wastes, or other substances?	<ul style="list-style-type: none"> • Outdoor loading dock • Liquids • Bulk liquids or solids 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 4 🗑 See Disposal Requirements
➤ Are there any vehicle or equipment practices conducted outdoors on this site?	<ul style="list-style-type: none"> • Fueling • Routine maintenance, repair, painting • Washing, steam cleaning • Manufacturing 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 5 🗑 See Disposal Requirements
➤ Are building exteriors (including windows, roof gutters, rooftops, etc.) and grounds (including sidewalks, pools, gutters, etc.) maintained?	<ul style="list-style-type: none"> • Landscaping • Pesticide use • Washing, painting • Pools 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes see, BMP Sec. 1,2 and 6 🗑 See Disposal Requirements
➤ Can materials used, stored on-site, or contained in equipment accidentally spill?	<ul style="list-style-type: none"> • Outdoor loading/unloading, storage • Vehicle or equipment maintenance • Building or landscape maintenance 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 7 🗑 See Disposal Requirements
➤ Are there any building or equipment repairs, remodeling, or construction activities occurring on-site?	<ul style="list-style-type: none"> • Erodible surface areas • Temporary outdoor storage • Sandblasting • Painting • Equipment repair/replacement 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 8 🗑 See Disposal Requirements
➤ Are there any stormwater facilities on-site?	<ul style="list-style-type: none"> • Catch basins • Conveyance ditches • Gutters • Drains • Drywells • Swales / Bioretention / Detention, etc. 	Yes <input type="checkbox"/> No <input type="checkbox"/> ♠ If yes, see BMP Sec. 1,2 and 9 🗑 See Disposal Requirements

BMP Section 1: Property Cleaning BMPs

Property cleaning and maintenance activities can deliver pollutants such as heavy metals, oil and grease, and toxic chemicals to storm drains. When these pollutants enter storm drains they flow to the Deschutes River or towards ground water. Best Management Practices (BMPs), when applied, are able to reduce pollutants from this urban runoff. The City of Bend has established the following BMPs to reduce the discharge of pollutants.

Required

- ❖ Routine property maintenance that includes litter control, frequent sweeping, and ongoing spill containment and clean-up using dry clean-up methods is required and may help reduce the frequency of a more thorough pavement cleaning with water.
- ❖ Sweep paved areas to be cleaned just prior to pressure washing or steam cleaning and dispose of soil and debris in trash or landscaping. Do not place in storm drains.
- ❖ Do not discharge commercial wash water from steam cleaning or laden with detergents or cleaning chemicals to storm drains. Wash water with soap, even biodegradable soap, is not allowed into storm drains. Direct small amounts of this type of wash water onto landscaped areas for infiltration or collect and dispose of the wash water into City of Bend sanitary sewer. Individual residential and non-profit group car washes are exempt from this requirement.
- ❖ Any discharge to sanitary sewer must have prior approval through City of Bend Public Works and may be subject to permitting under the City's pretreatment program. Call 541-322-6348 for more information.

Recommended

- Minimizing the overall amount of water used for cleaning is encouraged (e.g., high-pressure washing). Small discharge amounts can be directed onto adjacent landscaped areas.
- Place filters for debris sediment, and oil and grease hydrocarbon booms or pads around storm drain inlets or access points if these materials are present, or apply other suitable BMP technology. There should be no visible sheen on the discharge entering the storm drain.

BMP Section 2: General Industrial and Commercial Business BMPs

Required

- ❖ Train employees to protect storm drains and to use good housekeeping techniques. Good housekeeping includes: spill prevention, control, and cleanup; equipment and storage area inspection; and proper disposal of both hazardous waste and non-hazardous waste. See the Waste Disposal Requirement section on page 12 for more information.
- ❖ Conduct property cleaning in accordance with the BMPs identified on page 4.
- ❖ Prevent and clean up spills immediately using dry cleanup methods.

BMP Section 2: General Industrial and Commercial Business BMPs (Cont.)

Required (continued)

- ❖ Depending on the type and quantity of materials present, keep and maintain spill cleanup kits in all activity areas.
- ❖ Review the materials at your facility and whether there are specific regulations pertaining to their use and disposal (i.e., hazardous materials).
- ❖ See the Waste Disposal Requirements section on page 12 for more information.

Recommended

- Conduct regular inspections and self-audits to identify hazardous materials and activities that impact stormwater.
- Mark storm drains with a “Dump No Waste” message to identify stormwater drains and to prevent non stormwater discharges.
- Look for ways to reduce, reuse, and recycle materials and use non-toxic or the least toxic materials available.
- Locate business activities indoors or in designated areas away from a gutter or storm drain to prevent stormwater from running onto and off of the site. Or, cover the activity, use curbing or berms, pave the work surface, and/or provide secondary containment with drainage to a treatment system or dead-end sump.
- Preserve and maintain existing on-site vegetation for infiltration opportunities.

BMP Section 3: Non-Stormwater Discharges BMPs

Required

- ❖ Eliminate illicit connections to the storm drainage system by inspection, piping schematic review, smoke testing, or dye testing. Contact the City of Bend Public Works Industrial Pretreatment Program at 541-322-6348 for more information about connecting to and using the sanitary sewer system.
- ❖ Train employees on how to properly dispose of non-stormwater discharges. See the Waste Disposal Requirements section (page 12) for more information.

Recommended

- Eliminate or reduce non-stormwater discharges to the stormwater collection system by isolating problem areas or re-plumbing to sanitary sewer lines in accordance with requirements.
- Provide well-marked procedures for proper disposal or collection methods for wastewater to prevent storm drain use violations.

BMP Section 4: Outdoor Storage and Loading BMPs

Required

Loading and Unloading:

- ❖ Install safeguards against accidental releases such as overflow protection devices and protection guards around tanks and piping.
- ❖ Train employees in spill control and clean up procedures.

Container, Bulk, and Waste Storage:

- ❖ Clearly label containers or tanks and place them in a designated storage area with secondary containment.
- ❖ Take steps to prevent unauthorized entry into the storage area.
- ❖ Inspect tanks, drums, containers, and equipment regularly for leaks or spills.
- ❖ Store and maintain spill cleanup materials near the storage area.

Recommended

Loading and Unloading:

- Load and unload toxic materials indoors. If this is not possible, then it is recommended to cover the outside loading and unloading docks to reduce exposing materials to rain or snow.
- Use drip pans and/or absorbent materials to catch leaks or spills under hoses and pipe connections, when transferring liquids, or if material is removed directly from tanks and containers.

Container, Bulk, and Waste Storage:

- Cover bulk solid materials (gravel, sand, lumber, etc.) and protect from rain, snow or stormwater run-on.

BMP Section 5: Vehicle and Equipment Practices, Processing, Manufacturing BMPs

Required

Vehicle Washing:

- ❖ When washing with detergents use designated wash areas that drain to either a sanitary sewer or an appropriate on-site treatment system.

Fueling:

- ❖ Connecting fuel-island drains to the storm drain system or sanitary sewer is prohibited. Contact City of Bend Industrial Pretreatment Program at 541-322-6348 for additional information regarding sewer connections.
- ❖ Install automatic shutoff protection devices on hoses. Consult City of Bend Fire Department at 541-322-6300 for additional information.

Maintenance, Repair, & Painting:

- ❖ Connect the process equipment area to either the sanitary sewer or the facility wastewater treatment system. Contact the City of Bend Permit Center before connecting to a system.

BMP Section 5: Vehicle and Equipment Practices, Processing, Manufacturing BMPs (Cont.)

Required (continued)

- ❖ Install a spill/drip collection system and secondary containment in the fueling area. Ensure that the fueling area drains to a treatment and collection system designed for petroleum products.
- ❖ Label and store recycling greases, used oil or oil filters, antifreeze, cleaning solutions, auto batteries, hydraulic fluids and transmission fluids separately.
- ❖ Properly dispose of mercury containing equipment (e.g., switches) and other hazardous waste.
- ❖ Sweep process areas frequently and avoid washing down the areas to storm drain.
- ❖ Inspect process lines for leaks or malfunctions regularly and repair leaks or malfunctions promptly.
- ❖ Ensure oil filters are drained before recycling or adding to solid waste.

Operation & Processing:

- ❖ Connect Processing equipment to sanitary sewer. Coordinate with City of Bend Industrial Pretreatment Program at 541-322-6348.

Recommended

Vehicle Washing

- Consider taking vehicles and equipment to a commercial washing facility that recycles its wash water or consider filtering and recycling wash water.
- If washing with detergents, use a phosphate free detergent.
- Look for ways to reduce the amount of water used when washing vehicles or equipment.

Fueling:

- Avoid “topping off” of fuel tanks.
- Cover fueling island areas to minimize runoff potential.

Maintenance, Repair, and Painting:

- Use drip pans underneath vehicles and equipment when performing maintenance or when putting vehicles or equipment into storage.
- Mercury is a highly toxic metal that is often found in pre-2003 vehicle hood or trunk light switches and ABS sensors. Consider having the mercury switches in your auto fleet changed to non-mercury by a qualified mechanic. See Additional Hazardous Waste Disposal Resources Section on page 15 for additional information on mercury switches.
- Reduce solvent use by using a wire brush or a bake oven to clean parts and equipment.

BMP Section 5: Vehicle and Equipment Practices, Processing, Manufacturing BMPs (Cont.)

Recommended (continued)

- Sweep or use a vacuum to clean up sanding metal or Bondo. For safety purposes never use a vacuum for cleaning up flammable liquids.
- Allow debris from wet sanding activities to dry overnight if possible and either sweep or vacuum the debris, or invest in sanding equipment that has an attached vacuum system.
- Place drip pans underneath potential leak points.

BMP Section 6: Outdoor Maintenance BMPs

Required

Landscaping:

- ❖ Ensure employees are trained in spill control and clean up procedures.
- ❖ Use pesticides, herbicides and fertilizers according to the manufacturer's recommendations.
- ❖ Train employees to use pesticides, herbicides and fertilizers properly to prevent accidents and to address spill control and cleanup measures.
- ❖ Store and maintain spill cleanup materials near pesticide, herbicides and fertilizers storage areas.
- ❖ Properly dispose of debris daily.

Structure Maintenance:

- ❖ Collect trash and yard debris and dispose of properly as needed.
- ❖ Store paints, solvents, and other maintenance materials in a covered area.
- ❖ Install secondary containment where required.
- ❖ Inspect and clean the storm drainage system as needed (e.g., twice a year) to ensure they operate as originally designed.
- ❖ When lead-based paint is present use ground or drop cloth under painting, scraping and during sandblasting activities. Contact 1-800-424-LEAD.

Recommended

Landscaping:

- Use integrated pest management practices where appropriate.
- Use up pesticide, rinse containers, use rinse water as product.
- Purchase only the amount of pesticides and fertilizer you need for your site.

BMP Section 6: Outdoor Maintenance BMPs (Cont.)

Recommended (continued)

- Avoid using metal-based algaecides (copper sulfate) in fountain water.
- Structure Maintenance:
- Store and maintain spill cleanup material near pesticides storage areas.
 - Sweep the area frequently to avoid accumulation of materials.
 - Avoid blowing trash, yard debris, and dust into streets or gutters.
 - Do not discharge wash water from steam cleaning or laden with detergents or cleaning chemicals to storm drains. Wash water with soap, even biodegradable soap, is not allowed into storm drains.
 - Establish an operation and maintenance schedule and track maintenance activities. List the contact person responsible for inspection and maintenance.
 - When lead-based paint is not present the use of a ground or drop cloth under painting, scraping and during sandblasting activities is encouraged.

BMP Section 7: Spill Prevention, Control and Cleanup BMPs

Required

- ❖ Train employees in proper spill control and spill response procedures. Post spill response procedures as well as phone numbers so they are visible to staff.
- ❖ Regularly inspect and maintain spill cleanup kits in all activity areas.
- ❖ Report all spills to the Oregon Emergency Response System (1-800-452-0311) that release:
 - Any amount of oil to waters of the state.
 - Oil on land in excess of 42 gallons.
 - Hazardous materials that are equal to or greater than, the quantity listed in the Code of Federal Regulations, 40 CFR Part 302 and amendments adopted before July 1, 2002. <http://www.epa.gov/oust/fedlaws/cfr.htm>

Recommended

- When posting required spill response procedures consider also posting in areas where spills may come in contact with stormwater.
- Utilizing the three-step cleanup process for spills and leaks is recommended:
 1. Always use dry methods to clean up spills. Clean spills with rags or absorbent materials.
 2. Sweep the floor using a dry absorbent material.
 3. Mop the floor. If the mop water does not contain hazardous constituents, then it may be discharged to the sanitary sewer via a toilet, sink or floor drain.
- Inventory hazardous materials used, stored on site, or contained in equipment. Seek out ways to remove or replace non-essential hazardous materials wherever possible.

BMP Section 8: Building & Equipment Repair, Remodeling, Construction & Demolition BMPs

Required

General Construction:

- ❖ Prevent sediment laden stormwater runoff during construction activities by complying with local and federal requirements. Contact City of Bend Community Development Department at 541-388-5580 for more information.
- ❖ Monitor subcontractors and employees to ensure they are practicing good housekeeping techniques and are aware of spill prevention, control, and cleanup procedures and proper waste disposal methods.
- ❖ Dispose of thermostats, fluorescent bulbs, and other mercury-containing equipment as hazardous waste.
- ❖ Stockpile soil, base rock, and other construction materials away from the street or storm drain.

Painting:

- ❖ Clean latex (water-based) paint brushes and equipment with water in a sink that is connected to the sanitary sewer.
- ❖ Clean oil-based paint brushes and equipment where waste paint and solvents can be collected and disposed as hazardous waste.
- ❖ When removing lead-based paint:
 1. Cover the ground with plastic sheeting (or other similar material) generally extending 10 feet beyond the perimeter of the exterior surface.
 2. Collect all of the paint chips, debris and seal in a heavy-duty bag.
 3. Mist or wet the plastic sheeting (which, presumably, is wet from the washing), fold the dirty side inward, and tape to seal or seal in a heavy-duty bag.
 4. Dispose of the sheeting and bag as waste.

Contact 1-800-424-LEAD for additional information.

- ❖ Wipe oil based paint out of brushes, then filter and reuse or properly dispose of thinners and solvents.

Recommended

General Construction:

- Minimize disturbed soil exposure time and stabilize exposed soils by mulching, hydromulching, or using geotextiles.
- Inventory hazardous materials used, stored on site, or contained in equipment. Seek out ways to remove or replace non-essential hazardous materials wherever possible.
- Store materials under cover or in areas with secondary containment.
- Provide a gravel pad on-site for materials and equipment delivery. Stockpile soil, gravel, or other construction materials away from a street or storm drain.

BMP Section 8: Building & Equipment Repair, Remodeling, Construction & Demolition BMPs (Cont.)

Recommended (continued)

Painting:

- Segregate wastes for recycling and/or disposal. See the Waste Disposal Alternatives section for more information.
- When lead-based paint is not present, use of a ground or drop cloth under painting, scraping and during sandblasting activities is encouraged.

BMP Section 9: Stormwater Facility Operation and Maintenance BMPs

Required

- ❖ Inspect and clean the storm drains, storm drain equipment, piping, valves, joints, and pavement as needed (e.g., twice a year) to ensure they operate as originally designed and to reduce stormwater pollution.
- ❖ Train employees to protect storm drains and to use good housekeeping techniques. (Good housekeeping includes spill prevention, control, and cleanup; equipment and storage area inspection; and proper disposal of both hazardous waste and non-hazardous waste.) See the Waste Disposal Requirements section for more information.

Recommended

- Store materials under cover or in areas with secondary containment.
- Establish an operation and maintenance schedule and track maintenance activities. List the contact person responsible for inspection and maintenance. Good housekeeping includes spill prevention, control, and cleanup; equipment and storage area inspection; and proper disposal of both hazardous waste and non-hazardous waste.

Waste Disposal Requirements

Construction Material Waste Disposal

Excess oil-based paint

- ❖ Recycle/reuse; donate to nonprofit organization. Dispose of as hazardous waste.

Clean-up of oil-based paint

- ❖ Donate to nonprofit organization or dispose of as hazardous waste.

Excess water-based paint

- ❖ Recycle/reuse; donate to nonprofit organization.
- ❖ Small quantities: let the paint residue dry in the cans; remove lid; dispose in trash.
- ❖ Large quantities: solidify with cat litter, air dry, then dispose in trash.
- ❖ Or dispose of as hazardous waste.

Cleanup of water-based paint

- ❖ Wipe paint out of brushes, then: Rinse to sanitary sewer or landscaping. Do not rinse to septic systems or storm drains.
- ❖ Empty paint cans (dry): Remove lids, dispose lids and cans in trash.

Paint stripping (with solvent)

- ❖ Dispose of as hazardous waste.

Exterior cleaning of buildings (Non-Hazardous materials present)

- ❖ Direct wash water into landscape areas and infiltrated into the ground.
- ❖ No wash water or debris is to be left in the street and no discharges to storm drains is allowed.

Exterior cleaning of buildings with paints containing lead

- ❖ Dispose of as waste. For assistance, contact 1-800-424-LEAD.
- ❖ Paint chips and debris shall be disposed of as a waste.
- ❖ Do not allow wash water to enter a storm drain.

Paint scraping/sand blasting (Non-hazardous materials)

- ❖ Dry sweep, dispose in trash.

Cleaning, Construction & Demolition Debris (Non-hazardous materials)

- ❖ Recycle/reuse concrete, wood, asphalt, or other construction materials.
- ❖ Transport to landfill as construction and demolition waste. For assistance, contact Knott Landfill at 541-317-3163 www.deschutes.org/Solid-Waste.aspx.
- ❖ Any stormwater or dewatering discharges to sanitary sewer must have prior approval from the City of Bend Industrial Pretreatment Program. Call 541-322-6348 for more information.

Cleaning, Construction & Demolition Debris (Hazardous Materials)

- ❖ Dispose of as hazardous waste debris.
- ❖ For asbestos follow landfill packaging requirements. For assistance, contact Knott Landfill at 541-317-3163 or www.deschutes.org/Solid-Waste.aspx.

Building & Property Maintenance Waste Disposal

Leaking Garbage Dumpsters & Grease Container

- ❖ Collect and contain leaking material. Repair leak and return to dumpster or contact disposal company for repair.

Wash Water from Cleaning

- ❖ Filter wash water through grease interceptor; contact City of Bend IPP at 541-322-6348 before discharging to sanitary sewer.

Exterior Building and Routine Property Maintenance (Non-hazardous materials)

- ❖ Recycle/reuse; Dispose of soil and debris in trash can.

Exterior Building and Property (Hazardous Materials)

- ❖ Cleaning Chemicals (Hazardous Waste) Dispose of as hazardous waste; contact Knott Landfill at 541-317-3163 or www.deschutes.org/Solid-Waste.aspx. No cleaning chemicals, wash water or debris is to be left in the street or discharged to storm drain.

- ❖ Cleaning (paint contains lead): For assistance, contact 1-800-424-LEAD.

- ❖ Fluorescent light bulbs: Dispose of as hazardous waste.

Note: Fluorescent bulbs contain mercury and must not be broken or crushed.

For assistance, contact Knott Landfill at 541-317-3163 or www.deschutes.org/Solid-Waste.aspx. Some manufacturers produce low mercury bulbs that, with additives, may not characterize as hazardous waste. Testing prior to disposal is necessary to verify compliance with federal universal waste regulations.

Vehicle Waste Disposal

Used Motor Oil (Hazardous Materials)

- ❖ Send to recycler. (Use secondary containment while storing). For assistance contact Knott Landfill at 541-317-3163 or www.deschutes.org/Solid-Waste.aspx.

Antifreeze (Hazardous Materials)

- ❖ Send to recycler (Use secondary containment while storing).

Other Vehicle Fluids and Solvents (Hazardous Materials)

- ❖ Dispose of as hazardous waste.

Automobile Batteries (Hazardous Materials)

- ❖ Send to auto battery recycler.

Mercury Containing Equipment (Hazardous Materials)

- ❖ Dispose of as hazardous waste. (switches, etc.).
For further assistance with vehicle waste disposal contact Knott Landfill at 541-317-3163 or www.deschutes.org/Solid-Waste.aspx.

Vehicle Washing / Mobile Vehicle Washing

- ❖ Recycle wash water when possible.
- ❖ Collect and dispose of wash water to sanitary sewer. Contact City of Bend, 541-322-6348 before discharging to oil/water separator connected to sanitary sewer.

Vehicle Waste Disposal (Cont.)

- ❖ Rinse Water (new car fleets): If rinse water is free of detergents or other cleaners, and as long as the wheels, undercarriage, and engine are not rinsed, discharge to the storm drain is allowed.

Vehicle Leaks (auto repair shops)

- ❖ Sweep up leaks using granular absorbent material (e.g., cat litter) and dispose of in trash.
- ❖ Dispose of mop water to oil/water separator connected to sanitary sewer.
For further assistance with vehicle waste disposal contact Knott Landfill at (541) 317-3163 or www.deschutes.org/Solid-Waste.aspx.

Landscape and Garden Maintenance Waste Disposal

Pesticides, Herbicides & Fertilizers (Hazardous Materials)

- ❖ Dispose rinsed containers in trash.
- ❖ Dispose unused material as hazardous waste.

Garden Clippings

- ❖ Compost or take to landfill.

Tree Trimming

- ❖ Chip, if necessary, before composting or sending to landfill.

Residential Swimming Pools or Spa

- ❖ For private swimming pools, when possible discharge pool or spa water to the sanitary sewer. Contact City of Bend Industrial Pretreatment Program at (541) 322-6348 before discharging to the sanitary sewer.
- ❖ Discharges can be directed to a landscaped area after the chlorine residual has been reduced to less than 1.0 parts per million (ppm)).
- ❖ With prior approval from the City stormwater program, discharges can be directed to a City catch basin after the chlorine residual has been reduced to less than 1.0 parts per million (ppm)). For approval contact City of Bend Stormwater program at 541-317-3000.

Public Swimming Pools

- ❖ Contact City of Bend Industrial Pretreatment Program at (541) 322-6348 before discharging to the sanitary sewer.
- ❖ Neutralize acid or other pool chemical products and discharge to the sanitary sewer. Reuse for irrigation water or dispose on landscape areas.
- ❖ With prior approval from the City stormwater program, discharges can be directed to a City owned catch basin after the chlorine residual has been reduced (e.g., wait three days and test to see if chlorine is less than 1.0 parts per million (ppm)). For approval contact City of Bend Stormwater program at 541-317-3000.

Fountain Water

- ❖ Direct to a landscaped area.
- ❖ With prior approval from the City, discharge to the sanitary sewer.

Other Wastes

Carpet Cleaning Discharge

- ❖ Dispose into the sanitary sewer via a filter. Contact City of Bend Industrial Pretreatment Program at (541) 322-6348 for more information.
- ❖ Do not dump carpet cleaning waste to storm drains, landscaping or septic systems. Store wastewater in a collection tank and transport to an authorized sewage discharge point via a filter (i.e., RV dump station or car wash with owner approval).

Contaminated Liquids

- ❖ Treatment may be necessary. Comply with all Oregon Department of Environmental Quality, City of Bend and Federal regulations, prior to any underground injection, infiltration, or disposal to the sanitary sewer. For more information call the City of Bend at (541) 317-3000.

Kitchen Grease

- ❖ Put in closed container and put in the trash. NEVER flush down the drain.
- ❖ Small amounts of cooking oil: fill disposal container with kitty litter and pour oil in. Add sufficient kitty litter to absorb all of the oil, reducing mess and spillage. Dispose to trash as solid waste.
- ❖ For additional information on fat/oil/grease call City of Bend Industrial Pretreatment Program at (541) 322-6348.

Graywater from Mobile Food Units

- ❖ Comply with Oregon Department of Human Services Mobile Food Unit Operations Guide: <http://public.health.oregon.gov/HealthyEnvironments/FoodSafety/>
- ❖ Dispose into the sanitary sewer via a grease interceptor as approved by City of Bend Industrial Pretreatment Program (call (541) 322-6348 for more information).

Restaurant & Commercial Exhaust Hood Cleaning

- ❖ Block storm drains, contain, collect and return spilled material through a grease interceptor then discharge to sanitary sewer.
- ❖ For additional information on fat/oil/grease call City of Bend Industrial Pretreatment Program at (541) 322-6348.

Decant Water from Stormwater Facility Maintenance

- ❖ Decant water through an oil/water separator then discharge to sanitary sewer or other DEQ approved disposal facility.
- ❖ For additional information call City of Bend Industrial Pretreatment Program at (541) 322-6348.

Solid Debris from Stormwater Facility Maintenance

- ❖ Material testing may be required prior to landfill disposal; coordinate with the Knott Landfill at (541) 317-3163 www.deschutes.org/Solid-Waste.aspx or other DEQ approved disposal facility.

Additional Hazardous Waste Disposal Resources

U.S Environmental Protection Agency - Wastes Quick Finder

www.epa.gov/osw/hazard

Oregon Department of Environmental Quality – Land Quality

www.deq.state.or.us/lq/hw

Oregon Office of State Fire Marshal - Hazardous Substance Information System

www.oregon.gov/OSP/SFM/Pages/CR2K_InfoAvailable.aspx

Oregon Department of Environmental Quality – Managing Mercury Switches

<http://www.deq.state.or.us/lq/pubs/factsheets/hw/ManagingMercurySwitches.pdf>

Additional Resources

Central Oregon Stormwater Manual
www.coic2.org/community-development/water-resources/

Contact Information

To Report a Stormwater Problem or Emergency Spill:

Emergency Spill.....911

City of Bend (Community Development)..... 541-388-5580
Permitting, Construction Site Erosion, Dust, Ordinances & Regulations
www.bendoregon.gov/cdd

City of Bend (Fire Marshall)..... 541-322-6300
Hazardous Material Storage, Fire Codes
www.bendoregon.gov/fire

City of Bend (Industrial Pre Treatment Program)..... 541-322-6348
Sanitary Sewer use & regulations, Fat Oils & Grease (FOG)

City of Bend (Police – Non Emergency)..... 541-322-2960
Report a Crime or Incident
www.bendoregon.gov/police

City of Bend (Public Works)..... 541-317-3000
Stormwater Operation and Maintenance, Street sweeping, flooding
www.bendoregon.gov/streets

City of Bend (Stormwater Pollution Hotline)..... 541-317-3000
Illicit Discharges, Improper use of storm drains, Minor Spills
www.bendoregon.gov/stormwater

Oregon Department of Transportation..... 541-383-0121
Highway Construction Site Erosion, Dust, Flooding
www.oregon.gov/odot

Oregon Emergency Response System (OERS)..... 1-800-452-0311
Industrial Hazardous Waste, Permits
www.oregon.gov/OMD/OEM/Pages/tech_resp/oers.aspx

Knott Landfill..... 541-317-3163
General Information, Hazardous Materials Collection and Recycling
www.deschutes.org/Solid-Waste.aspx

Mailing Address

City of Bend
Public Works Department
575 NE 15th Street
Bend, OR 97701