

9.0 SPILL PREVENTION, RESPONSE AND DISPOSAL

9.1 Overview

This section reviews the appropriate spill prevention practices employees should implement, describes response measures in the event of an emergency, and identifies disposal requirements for recyclable or waste materials.



Provided by the Muncie Sanitary District.

9.2 Site Assessment

9.2.1 Spill Prevention and Response

<p>Regulation: 327 IAC 15-13-17 (b) (2) (C)</p>	<p>Controls for reducing or eliminating the discharge of pollutants from operational areas, including roads, parking lots, maintenance and storage yards, and waste transfer stations. Appropriate controls shall include the following:</p> <p>(C) Providing facilities for containment of any accidental losses of concentrated solutions, acids, alkalis, salts, oils, or other polluting materials.</p>
<p>Implementation BMPs</p>	<ul style="list-style-type: none"> • Create and maintain written documentation/procedures. This could be in the form of SOPs, SWPPPs, P2&GHMs, or other applicable format. • Identify chemical storage areas and structural containment, containment equipment and spill equipment at municipal facilities and describe in the procedures or other documents. • Implement storage measures to prevent a spill or leak from exiting the building or entering a storm conveyance (secondary containment, spill equipment, etc.) • Inspect chemical storage areas, containment systems, and spill equipment for issues or concerns. • Describe employee emergency spill response and notification procedures in procedures or other documents. • Provide sufficient spill materials for cleanup of a spill. • Secondary containment is to be provided for containers/tanks storing oils or petroleum products in accordance with the Fire Prevention Code and the Water Quality Standards (327 IAC 2-10). • Implement spill response measures according to the Indiana Spill Rule (327 IAC 2-6.1) and other federal regulations including 40 CFR 110 & 112 (SPCC Rule) and EPCRA Emergency Release Notifications (40 CFR 302). • Implement employee training on spill prevention and response (refer to Section 2.0 for more information on training requirements).
<p>Programmatic Indicator</p>	<ul style="list-style-type: none"> • Number and location of municipal facilities that have containment for accidental releases of stored materials that could be a potential pollutant. • Number and location of municipal refueling areas that replace existing tank systems that have installed stormwater BMPs.

Possible Measurable Goals	<ul style="list-style-type: none"> • Store chemical containers with a capacity of 55-gallons and greater within secondary containment. • Provide all aboveground storage tanks and chemical containers with secondary containment. • Conduct regular inspections and perform good housekeeping as inspection results indicate. • Record the amount (in gallons or pounds) of chemicals stored at an MS4 owned facility annually. • Provide spill equipment near chemical storage areas. • Provide annual training to employees on spill prevention and response.
Documentation	<ul style="list-style-type: none"> • Document the chemical storage locations in procedures or other documents. • Document the types of containment or spill equipment provided in procedures, SWPPPs or other documentation. • Document routine facility inspections. • Document spills and response activities according to the Indiana Spill Rule (327 IAC 2-6.1) and other federal requirements. • Update spill prevention procedures and/or plans after a spill or when facility operations change.
Advanced BMPs (optional)	<ul style="list-style-type: none"> • Verify monthly that spill control and clean up materials are located near material storage, unloading, and use areas. • Replace or upgrade single-walled tanks with double-walled tanks that are equipped with leak detection gauges and liquid level devices. • Delegate the responsibility for management of hazardous materials to personnel trained and experienced in hazardous substance management. • Provide secondary containment for chemical containers 55 gallons and greater. • Provide a form of secondary containment for chemical containers five gallons and greater. • Seal or disconnect all floor drains within garages and maintenance areas. • Connect floor drains to a collection system or oil/water separator and the sanitary sewer and not the storm sewer. • Ensure sufficient aisle space to provide access for inspections and to improve the ease of material transport. • Store materials away from high-traffic areas to reduce the likelihood of accidents that might cause spills or damage to drums, bags, or containers. • Stack containers in accordance with the manufacturers' directions to avoid damaging the container or the product. • Only store on-site the amount of material or product needed to complete a job. • Schedule more frequent deliveries of materials and products to reduce the amount stored on-site at an MS4 owned facility. • Annually assess the amount of petroleum products stored on-site for possible regulation under the SPCC Rule (40 CFR 112).

9.2.2 Waste Disposal

Regulation: 327 IAC 15-13-17 (b) (3)	<p>Written procedures for the proper disposal of waste or materials removed from separate storm sewer systems and operation areas. All materials removed from separate storm sewer systems and operational areas, including dredge spoil, accumulated sediments, floatables, and debris, must be:</p> <ul style="list-style-type: none"> (A) reused or recycled; or (B) disposed of in accordance with applicable solid waste disposal regulations.
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<p>Implementation BMPs</p>	<ul style="list-style-type: none"> • Dispose of wastes according to state and federal regulations. • Identify wastes generated and complete a waste determination. Wastes could include: street sweeping debris, catch basin debris, vehicle wash waters, used oil, used absorbent, used antifreeze, used oil filters, waste fuels, parts washer liquids, flammable liquids, waste aerosol cans, empty drum/containers, used tires, scrap metal, trash, general recyclables, electronic waste (computers, phones, televisions, etc.), universal waste (bulbs, batteries, mercury containing devices and pesticides), polychlorinated biphenyls (PCB) transformers and waste, and other hazardous wastes. • Determine proper waste disposal methods or recycling options. Used oils and electronic/universal waste should be recycled. Collected vegetation (leaves, limbs, etc.) cannot be placed in a landfill. Catch basin and street sweeping debris cannot be stored in a floodway and should be disposed of at least every 6 months (typically in a landfill). • Determine appropriate waste storage practices, especially, if waste is stored outdoors (i.e. dumpsters, stockpiles, tanks). • Create and maintain written documentation /procedures. This could be SOPs, SWPPPs, P2&GHMs, or other applicable format. • Label all waste containers. • Implement employee training for waste disposal (refer to Section 2.0 for more information on training requirements).
<p>Programmatic Indicator</p>	<p>None.</p>
<p>Possible Measurable Goals</p>	<ul style="list-style-type: none"> • Decrease the amount of pollution to stormwater by properly disposing of or recycling waste materials. • Increase awareness of appropriate items to recycle. • Track the amount of materials reused. • Track the amount of materials disposed of at a landfill. • Track the amount of materials recycled including tires, electronic waste, universal waste (bulbs and batteries), used oil, scrap metal, etc.
<p>Documentation</p>	<p>Track the amount and type of materials disposed of or recycled. This can be through vendor invoices, shipping documents, or a tracking form.</p>
<p>Advanced BMPs (optional)</p>	<ul style="list-style-type: none"> • Identify all hazardous and nonhazardous substances present at a facility. This can be accomplished by reviewing all purchase orders for the facility and walking through the facility itself. Compile a list of all chemicals present at a facility and obtain a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS) for each one. • Label all containers with the name of the chemical, unit number, expiration date, handling instructions, and health or environmental hazards. Much of this information will be found on the MSDS or SDS. Often, insufficient labeling leads to improper handling or disposal of hazardous substances. • Make special note on the inventory of hazardous chemicals that require special handling, storage, or disposal. • Replace toxic chemicals with less toxic or environmentally friendly chemicals.
<p>Additional Resources:</p>	<ul style="list-style-type: none"> • IDEM Fact Sheet: Street Sweeping Debris Disposal and Management • IDEM Office of Land Quality: Permit Guide • IDEM Hazardous Waste • IDEM Universal Waste • IDEM Electronic Waste • IDEM Used Oil Rule

9.2.3 Management Procedures for Composting Locations/Facilities (if applicable)

Regulation: 327 IAC 15-13-17 (b) (2)	Controls for reducing or eliminating the discharge of pollutants from operational areas, such as, compost and vegetative matter piles.
Implementation BMPs	<ul style="list-style-type: none"> • Create and maintain written documentation/procedures for composting locations/facilities. This could be SOPs, SWPPPs, P2&GHMs, or other applicable format. • Review each procedure annually with municipal employees and update as needed. • Prevent runoff from composting areas from contacting stormwater. • Develop containment areas for composting locations so runoff is properly contained and treated. • Implement employee training on storage of stockpiles (refer to Section 2.0 for more information on training requirements). • Follow the Indiana Code 13-20-10-8 for requirements for composting facilities.
Programmatic Indicator	None.
Possible Measurable Goals	<ul style="list-style-type: none"> • Composting locations/facilities are open to the public at convenient hours. • Composting locations/facilities are adequately handling all compostable materials on a monthly basis.
Documentation	Registered composting facilities must submit an annual report by January 31 of each year to IDEM.
Advanced BMPs (optional)	<ul style="list-style-type: none"> • Record the amount of compostable materials dropped off by the public. • Record the amount of compostable materials dropped off by the MS4. • Record the amount of compostable materials products purchased or used by the public and MS4.
Additional Resources:	<ul style="list-style-type: none"> • IDEM Composting • IDEM Registered Composting Facility Annual Report • IDEM Guidance for the Design and Operation of Yard Waste Composting Facilities