## **Common Stormwater Pollutants, Sources, and Impacts**

On its way to creeks, rivers, and lakes, stormwater runoff can accumulate pollutants such as pesticides, pathogens (bacteria), sediment, automotive fluids, and heavy metals. These pollutants can degrade water quality and aquatic habitat, impair ecosystem functions, and harm human health. Understanding the sources of these pollutants and the impacts of each pollutant can help an auditor understand the goals and objectives when managing stormwater. Table 1 summarizes common stormwater pollutants, their sources, and potential impacts. During self-audits, make sure to look for these potential sources of pollution.

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| Table 1: Common Stormwater Pollutants, Sources, and Impacts |
| Pollutants | **Sources** | **Impacts** |
| Sediment | Construction sites; eroding stream banks and lakeshores; winter sand and salt application; vehicle/boat washing; agricultural sites | Destruction of plant and fish habitat; transportation of attached oils, nutrients, and other pollutants; increased maintenance costs; flooding |
| Nutrients (phosphorus, nitrogen) | Fertilizers; malfunctioning septic systems; livestock, bird, and pet waste; vehicle/boat washing; gray water; decaying grass and leaves; sewer overflows; leaking trash containers; leaking sewer lines | Increased potential for nuisance or toxic algal blooms; increased potential for hypoxia/anoxia (low levels of dissolved oxygen, which can kill aquatic organisms) |
| Hydrocarbons (petroleum compounds) | Vehicle and equipment leaks; vehicle and equipment emissions; fuel spills; improper fuel storage and disposal; equipment cleaning; pesticides | Toxic to human and aquatic life at low levels |
| Heavy metals | Vehicle brake and tire wear; vehicle/equipment exhaust; batteries; galvanized metal; paint and wood preservatives; fuels, pesticides, and cleaners | Toxic at low levels; drinking water contamination |
| Pathogens (bacteria) | Livestock, bird, and pet waste; malfunctioning septic systems; sewer overflows; damaged sanitary lines | Risk to human health, leading to closure of shellfish areas and swimming areas; drinking water contamination |
| Toxic chemicals | Pesticides; dioxins; polychlorinated biphenyls (PCBs); spills, illegal discharges, and leaks | Toxic to human and aquatic life at low levels |
| Debris/litter | Improper waste disposal and storage; fishing gear; leaking trash containers; cigarette butts; littering | Potential risk to human and aquatic life; aesthetically displeasing.  |

Source: “Guidelines and Standard Operating Procedures: Illicit Discharge Detection and Elimination and Pollution Prevention/Good Housekeeping.” Pollution Prevention

The lists below provide more information on measures that can help prevent pollution or improve surface water quality.

**Best Management Practices**

* Enclosure/containment of material or potential contamination sources
* Diversion of stormwater away from areas of potential contamination
* Installation of stormwater collection systems followed by storage and reuse where possible
* Provision of oil/water separators, sediment traps, or other treatment devices
* Erosion control using diversions, re-grading, revegetation, and use of rip-rap
* Use of drip pans or dry sweep material under leaking vehicles or equipment
* Use of absorbent devices to contain and reduce releases of liquids
* Moving industrial operations, storage areas, vehicle/equipment maintenance areas, etc., from outdoors to indoors
* Good housekeeping practices (see below for examples)
* Modification/labeling of storm drains or catch basins
* Implementation of a spill prevention and response program
* Employee training program
* Preventative maintenance program
* Covered roll-offs/dumpsters

**Good Housekeeping Practices**

* Frequent cleaning
* Proper disposal of trash, garbage, and other waste
* Proper storage and transfer of materials
* Frequent walkthroughs or inspections of work areas for potential problems

**Problems to Look For**

* Uncovered/exposed materials
* Dirty or cluttered surfaces exposed to stormwater
* Oils, grease, or other chemicals on the ground
* Spots, stains, and discoloration
* Leaking equipment
* Poor chemical storage or transfer operations
* Floor drains or other conduits that toxic chemicals are likely to enter
* Suspicious-looking puddles

## **Inspection Record**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Facility** | **Inspection Date** | **Inspector** | **Corrective Action Needed?**  | **Corrective Actions from Previous Inspection Done?**  |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |
|  |  |  | [ ]  Yes  | [ ]  No | [ ] NA | [ ]  Yes  | [ ]  No | [ ] NA |

|  |  |
| --- | --- |
| **Inspector Name** |  |
| **Inspector Title and Department** |  |
| **Name and Location of Facility/Site** |  |
| **Facility/Department Manager** |  |
| **High-Priority Facility**  | [ ]  Yes [ ]  No (See the High-Priority Determination checklist.) |
| **Date** |  |
| **Inspection Period** |  [ ]  Quarterly | [ ]  Semiannually | [ ]  Annually | [ ]  Other:  |

### **General**

|  |  |  |
| --- | --- | --- |
| **General** | **Yes No NA** | **Comments** |
| 1. Are there appropriate measures in place to control pollutants in stormwater discharge (e.g., silt fencing)?
 | [ ]  [ ]  [ ]  |  |
| 1. Are there structural practices (e.g., earth dikes and drainage swales) in place to divert flows or limit runoff and the discharge of pollutants?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the appropriate measures in place to control stormwater pollutants related to erosion and sediment?
 | [ ]  [ ]  [ ]  |  |
| 1. Has the maintenance of drains/inlets/drainage paths been checked to confirm these are properly functioning?
 | [ ]  [ ]  [ ]  |  |
| 1. Do runoff discharges from air compressors, cooling towers, and/or boilers drain to a sanitary sewer?
 | [ ]  [ ]  [ ]  |  |
| 1. Have the containment and/or filtering BMP controls been checked to make sure they are in good condition?
 | [ ]  [ ]  [ ]  |  |
| 1. If the facility conducts surface or pressure washing, is wastewater collected?
 | [ ]  [ ]  [ ]  |  |
| 1. Are there any signs of leaks, spills, or drips in exterior vehicle and equipment areas?
 | [ ]  [ ]  [ ]  |  |
| 1. If the facility has storm drains, are any toxic chemicals likely to enter them?
 | [ ]  [ ]  [ ]  |  |
| **Additional Notes/Corrective Action Needed:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Expected Completion Date for Actions:**  |
| **Person Responsible for Corrective Actions: Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature of Inspector:** |

### **Yard**

|  |  |  |
| --- | --- | --- |
| **Bulk Material Storage** | **Yes No NA** | **Comments** |
| 1. Are there any bulk materials stored outside, such as sand, gravel, asphalt, or mulch?
 | [ ]  [ ]  [ ]  |  |
| 1. Are these materials in a containment bay?
 | [ ]  [ ]  [ ]  |  |
| 1. Is the containment bay covered?
 | [ ]  [ ]  [ ]  |  |
| 1. Are erosion controls in place around the bulk materials?
 | [ ]  [ ]  [ ]  |  |
| **Waste Materials** | **Yes No NA** | **Comments** |
| 1. Are there any exposed litter, debris, or chemicals?
 | [ ]  [ ]  [ ]  |  |
| 1. If there are, have they been picked up, stored according to hazard, or disposed of properly?
 | [ ]  [ ]  [ ]  |  |
| 1. Are all dumpsters or outdoor trash containers covered?
 | [ ]  [ ]  [ ]  |  |
| 1. Do all dumpsters have their drains plugged to prevent waste from discharging?
 | [ ]  [ ]  [ ]  |  |
| **Chemicals** | **Yes No NA** | **Comments** |
| 1. Are chemicals in labeled containers?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers stored outside under cover or inside?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers stored on spill pallets?
 | [ ]  [ ]  [ ]  |  |
| 1. Are chemicals used outside?
 | [ ]  [ ]  [ ]  |  |
| **Materials Stored Outside in Containers (Drums, Barrels, Tanks, etc.)**  | **Yes No NA** | **Comments** |
| 1. Are there any materials or wastes stored outside in containers? If so, are the lids secure?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the containers stored on an impervious surface?
 | [ ]  [ ]  [ ]  |  |
| 1. If containers are stored on an impervious surface, are they under cover or is there a secondary containment (e.g., berms)?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers with dispensers stored properly (e.g., indoors)?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the containers empty and clean?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the containers in good condition and not leaking?
 | [ ]  [ ]  [ ]  |  |
| **Vehicles and Equipment Stored Outside** | **Yes No NA** | **Comments** |
| 1. Are vehicles and equipment stored outdoors?
 | [ ]  [ ]  [ ]  |  |
| 1. Are they stored under cover?
 | [ ]  [ ]  [ ]  |  |
| 1. Are they stored on a paved/impervious surface?
 | [ ]  [ ]  [ ]  |  |
| 1. Are there any signs of leaking from vehicles or equipment?
 | [ ]  [ ]  [ ]  |  |
| 1. Are drip pans placed under leaking vehicles and equipment?
 | [ ]  [ ]  [ ]  |  |
| **Additional Notes/Corrective Action Needed:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Expected Completion Date for Actions:**  |
| **Person Responsible for Corrective Actions: Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature of Inspector:** |

### **Fuel and Fleet Maintenance**

|  |  |  |
| --- | --- | --- |
| **Fuel Facility** | **Yes No NA** | **Comments** |
| 1. Is the fuel facility paved?
 | [ ]  [ ]  [ ]  |  |
| 1. Is the fuel facility under cover?
 | [ ]  [ ]  [ ]  |  |
| 1. Are fuel dispensers locked?
 | [ ]  [ ]  [ ]  |  |
| 1. Is an emergency shutoff switch present?
 | [ ]  [ ]  [ ]  |  |
| 1. Are written spill cleanup procedures posted and a spill kit readily available?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there signage prohibiting “topping off”?
 | [ ]  [ ]  [ ]  |  |
| 1. Is a spill containment device and/or spill kit readily available?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there evidence of leaked vehicle fluids on the ground?
 | [ ]  [ ]  [ ]  |  |
| 1. Does the fuel facility have a Spill Prevention, Control, and Countermeasures (SPCC) Plan?
 | [ ]  [ ]  [ ]  |  |
| **Vehicle Service Bays** | **Yes No NA** | **Comments** |
| 1. Are vehicles serviced indoors?
 | [ ]  [ ]  [ ]  |  |
| 1. Do spill pallets, fire cabinets, and parts cleaners appear to be used effectively?
 | [ ]  [ ]  [ ]  |  |
| 1. Are drip pans placed under leaking vehicles?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers properly labeled and stored, without any signs of fluid leakage?
 | [ ]  [ ]  [ ]  |  |
| 1. Are written spill cleanup procedures posted and is there a spill kit readily available?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there evidence of leaked vehicle fluids on the ground?
 | [ ]  [ ]  [ ]  |  |
| 1. Is used oil disposed of properly?
 | [ ]  [ ]  [ ]  |  |
| 1. Does the oil/water separator drain to the sanitary sewer?
 | [ ]  [ ]  [ ]  |  |
| 1. Does the facility have up-to-date maintenance records for the oil/water separator?
 | [ ]  [ ]  [ ]  |  |
| **Vehicle Washing** | **Yes No NA** | **Comments** |
| 1. Are vehicles washed on site?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there a designated washing area?
 | [ ]  [ ]  [ ]  |  |
| 1. Are there standard operating procedures (SOPs) for vehicle washing to ensure that vehicle wash water does not drain directly to the municipal storm sewer system or a water body? *For example, vehicles are washed indoors, or wash water is redirected to flow to a vegetated area or sent to the sanitary sewer system.*
 | [ ]  [ ]  [ ]  |  |
| 1. Are sand trap records maintained?
 | [ ]  [ ]  [ ]  |  |
| **Chemicals** | **Yes No NA** | **Comments** |
| 1. Are chemicals in labeled containers?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers stored outside under cover or inside?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers stored on spill pallets?
 | [ ]  [ ]  [ ]  |  |
| 1. Are chemicals used outside?
 | [ ]  [ ]  [ ]  |  |
| **Additional Notes/Corrective Action Needed:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Expected Completion Date for Actions:**  |
| **Person Responsible for Corrective Actions: Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature of Inspector:** |

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## **Spills/Solid Waste**

|  |  |  |
| --- | --- | --- |
| **Spills** | **Yes No NA** | **Comments** |
| 1. Is staff training on spill response documented?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there a spill response plan in place?
 | [ ]  [ ]  [ ]  |  |
| 1. Are spill protocol notices posted?
 | [ ]  [ ]  [ ]  |  |
| 1. Do employees know where the spill kit is located?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the spill response plan and spill kits readily available close to where they are needed?
 | [ ]  [ ]  [ ]  |  |
| 1. Are spill kits labeled on the site plan?
 | [ ]  [ ]  [ ]  |  |
| 1. Are spill kits stocked? (Also check the level of absorbent material.)
 | [ ]  [ ]  [ ]  |  |
| 1. Are spills reported as required?
 | [ ]  [ ]  [ ]  |  |
| 1. Which staff members are responsible for spill response?
 | Name(s): |
| 1. Is the contact information for reporting a spill up to date?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there a disposal plan in place?
 | [ ]  [ ]  [ ]  |  |
| 1. Are there signs of spill stains? (Suspicious-looking puddles, spots/stains/discoloration, etc.)
 | [ ]  [ ]  [ ]  |  |
| **Solid Waste** | **Yes No NA** | **Comments** |
| 1. Does the facility keep waste manifests for the 3-year minimum requirement?
 | [ ]  [ ]  [ ]  |  |
| 1. Are outdoor trash receptacles overflowing?
 | [ ]  [ ]  [ ]  |  |
| **Additional Notes/Corrective Action Needed:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Expected Completion Date for Actions:**  |
| **Person Responsible for Corrective Actions: Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature of Inspector:** |

### **Storage Tanks/General Equipment**

|  |  |  |
| --- | --- | --- |
| **Storage Tanks/General Equipment** | **Yes No NA** | **Comments** |
| 1. Are drums, barrels, tanks, and other containers in good condition?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the containers properly labeled?
 | [ ]  [ ]  [ ]  |  |
| 1. Are the containers properly sealed?
 | [ ]  [ ]  [ ]  |  |
| 1. Are there visible leaks from the containers?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there visible damage to the containers?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers with dispensers stored properly (e.g., indoors)?
 |  |  |
| 1. Do drums have adequate secondary containment and cover?
 | [ ]  [ ]  [ ]  |  |
| 1. Are bulk fluids and wastes double-contained to prevent accidental discharges?
 | [ ]  [ ]  [ ]  |  |
| 1. Is there liquid in the secondary containment storage?
 | [ ]  [ ]  [ ]  |  |
| 1. Are aboveground storage tanks inspected on a periodic basis for leaks and other hazardous conditions?
 | [ ]  [ ]  [ ]  |  |
| 1. Are used batteries protected from contact with stormwater?
 | [ ]  [ ]  [ ]  |  |
| **Additional Notes/Corrective Action Needed:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Expected Completion Date for Actions:**  |
| **Person Responsible for Corrective Actions: Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature of Inspector:** |

## **Parks and Grounds**

|  |  |  |
| --- | --- | --- |
| **Parks and Grounds** | **Yes No NA** | **Comments** |
| 1. Is landscape maintenance debris contained and stored away from drainage paths?
 | [ ]  [ ]  [ ]  |  |
| 1. Are irrigation systems regularly maintained to avoid overwatering?
 | [ ]  [ ]  [ ]  |  |
| 1. After mowing, are grass clippings left or swept/blown on the grass, or swept/blown into a pile for removal?
 | [ ]  [ ]  [ ]  |  |
| 1. Is trash picked up from the grounds in conjunction with mowing?
 | [ ]  [ ]  [ ]  |  |
| 1. Are outdoor trash receptacles overflowing?
 | [ ]  [ ]  [ ]  |  |
| 1. Is the spraying of pesticides avoided within 50 feet of surface water, creek, etc., or within designated “no-spray” zones?
 | [ ]  [ ]  [ ]  |  |
| 1. Is spot spraying the preferred practice for weed and insect control?
 | [ ]  [ ]  [ ]  |  |
| 1. Is broadcast spraying avoided?
 | [ ]  [ ]  [ ]  |  |
| 1. Are fertilizers and pesticides not applied before rain events?
 | [ ]  [ ]  [ ]  |  |
| 1. Is dog waste disposed of properly?
 | [ ]  [ ]  [ ]  |  |
|  **Chemicals** | **Yes No NA** | **Comments** |
| 1. Are chemicals in labeled containers?
 | [ ]  [ ]  [ ]  |   |
| 1. Are containers stored outside under cover or inside?
 | [ ]  [ ]  [ ]  |  |
| 1. Are containers stored on spill pallets?
 | [ ]  [ ]  [ ]  |  |
| 1. Are chemicals used outside?
 | [ ]  [ ]  [ ]  |  |
| **Additional Notes/Corrective Action Needed:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Expected Completion Date for Actions:**  |
| **Person Responsible for Corrective Actions: Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Signature:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Signature of Inspector:** |

## **Definitions**

**Best management practices (BMPs):** Schedules of activities, prohibitions of practices, maintenance procedures, structural controls, local ordinances, and other management practices to prevent or reduce the discharge of pollutants. BMPS also include treatment requirements, operating procedures, and practices to control runoff, spills or leaks, waste disposal, or drainage from raw material storage areas.

**Catch basins:** Storm drain inlets and curb inlets to the storm drain system. Catch basins typically include a grate or curb inlet that may accumulate sediment, debris, and other pollutants.

**Control measure:** Any BMP or other method used to prevent or reduce the discharge of pollutants to water in the state.

**Conveyance:** Curbs, gutters, manmade channels and ditches, drains, pipes, and other constructed features designed or used for flood control or to otherwise transport stormwater runoff.

**Discharge:** When used without a qualifier, refers to the discharge of stormwater runoff or certain non-stormwater discharges as allowed under the authorization of this general permit.

**High-priority facilities:** High-priority facilities are facilities with a high potential to generate stormwater pollutants. These facilities must include, at a minimum, the MS4 operator’s maintenance yards, hazardous waste facilities, fuel storage locations, and other facilities where chemicals or other materials have a high potential to be discharged in stormwater. Among the factors that must be considered when giving a high-priority rating are: the amount of urban pollutants stored at a site, the identification of improperly stored materials, activities that must not be performed outside (for example, changing automotive fluids, vehicle washing), proximity to water bodies, proximity to sensitive aquifer recharge features, poor housekeeping practices, and discharge of pollutant(s) of concern to impaired water(s).

**Impaired water:** A surface water body that is identified on the latest approved Clean Water Act CWA §303(d) List as not meeting applicable state water quality standards. Impaired waters include waters with approved or established total maximum daily loads (TMDLs), and those where a TMDL has been proposed by the Virginia Department of Environmental Quality (VDEQ) but has not yet been approved or established.

**Pollutant(s) of concern:** Biochemical oxygen demand (BOD), sediment or a parameter that addresses sediment (such as total suspended solids, turbidity, or siltation), pathogens, oil and grease, and any pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from a municipal separate storm sewer system (MS4).

**Stormwater and stormwater runoff:** Rainfall runoff, ice/snow melt runoff, and surface runoff and drainage.

**Structural control or practice:** A pollution prevention practice that requires the construction of a device, or the use of a device, to capture or prevent pollution in stormwater runoff. Structural controls and practices may include but are not limited to: wet ponds, bioretention, infiltration basins, stormwater wetlands, silt fences, earthen dikes, drainage swales, vegetative lined ditches, vegetative filter strips, sediment traps, check dams, subsurface drains, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.