



Good Housekeeping & Pollution Prevention Manual

Programmatic Overview of CVCC's Good
Housekeeping and Pollution Prevention Practices



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3506 Wards Road
Lynchburg, VA 24502

For concerns related to Good Housekeeping/Pollution Prevention
or for reporting pollution into stormwater runoff contact the
Facilities Manager at 434-832-7736

**Central
Virginia
Community
College**

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APPENDICES

- APPENDIX A: Training Documentation
- APPENDIX B: Findings & Follow-up Form
- APPENDIX C: Spill Response Procedures

ACRONYMS

BMP	Best Management Practice
CCA	Chromated Copper Arsenate
DEQ	Department of Environmental Quality
EPA	Environmental Protection Agency
FLB	Fluorescent Light Ballasts
HID	High-Intensity Discharge
MS4	Municipal Separate Stormwater Sewer System
MVAC	Motor Vehicle Air-Conditioning
NMP	Nutrient Management Plan
CVCC	Central Virginia Community College
NPDES	National Pollutant Discharge Elimination System
PCBs	Polychlorinated Biphenyls
PCP	Pentachlorophenol
RCRA	Resource Conservation and Recovery Act
SDS	Safety Data Sheets (formerly MSDS)
SWPPP	Stormwater Pollution Prevention Plan
TCLP	Toxicity Characteristic Leachate Procedure
TMDL	Total Maximum Daily Load
TSCA	Toxic Substance Control Act
VSMP	Virginia Stormwater Management Program

1.0 INTRODUCTION AND PURPOSE

College staff engage in a variety of activities that have the potential to influence surface water quality. This manual presents the standard protocol which Central Virginia Community College (CVCC) will utilize to implement its Good Housekeeping & Pollution Prevention Program. The manual provides a set of written procedures and Best Management Practices (BMPs) which are meant to ensure that campus operations are managed in ways that will minimize pollutants from entering CVCC's small municipal separate storm sewer system (MS4). The written procedures are required to be developed, implemented, and updated by CVCC as a condition of the college's MS4 General Permit (MS4 Permit), the permitting mechanism designed to prevent pollutants from entering surface waters through stormwater runoff. The MS4 Permit authorizes stormwater discharges from MS4s to surface waters in urbanized areas of the Commonwealth of Virginia.

The MS4 program is part of the Federal National Pollutant Discharge Elimination System (NPDES), which is authorized through the Clean Water Act. With delegation from the Environmental Protection Agency (EPA), MS4 permits in Virginia are issued through the Virginia Pollutant Discharge Elimination System (VPDES) and administered by the Virginia Department of Environmental Quality (DEQ). To ensure compliance with Good Housekeeping & Pollution Prevention requirements of the MS4 Permit, CVCC is required to perform the procedures outlined in this manual.

CVCC's Good Housekeeping & Pollution Prevention Manual includes five distinct components:

- **Training** – Procedures to train applicable Facilities staff related to the Program are discussed in Section 2.0 of this manual.
- **Documentation and Reporting** – Procedures to document all efforts related to the Good Housekeeping & Pollution Prevention process are outlined in Section 3.0 of this manual.
- **Good Housekeeping & Pollution Prevention Inspections** – Procedures and schedules for inspection of the CVCC campuses with the Stormwater Pollution Prevention Plan (SWPPP) map is outlined in Section 4.0 of this manual.
- **Maintenance & Operational Procedures** – Procedures for daily maintenance and operational activities observed at the CVCC campuses are outlined in Section 5.0 of this manual.
- **Waste Management & Disposal Procedures** – Procedures for waste management and disposal of pollutants are outlined in Section 6.0 of this manual.

2.0 GOOD HOUSEKEEPING & POLLUTION PREVENTION TRAINING

The MS4 Permit requires CVCC to provide training once every 24 months to applicable maintenance and operations staff, identified by the Facilities Manager, who play a role in the recognition and reporting of Good Housekeeping & Pollution Prevention. As part of CVCC's Program, this manual and documents incorporated by reference (such as the SWPPP Maps and SWPPP Inspection Form) serve as training material to meet the permit requirement.

The written procedures herein serve as the foundation for a successful Good Housekeeping & Pollution Prevention Program that assists CVCC in achieving MS4 Permit compliance. However, implementation and documentation of the procedures are critical for achieving the Good Housekeeping & Pollution Prevention Program goal to eliminate non-stormwater discharges to CVCC's storm sewer system and ultimately receiving surface waters. As referenced throughout this Manual, the Good Housekeeping & Pollution Prevention Program relies on staff knowledge and supplemental materials to assist with implementation and documentation. Applicable maintenance and operations staff should be familiar with each section of this Manual and the supplemental materials provided in the Appendices, which include:

- **Training Documentation Form** – Appendix A is intended for use by the CVCC Facilities Manager or their designee for documenting training that has been given. For the applicable maintenance and operations staff identified, once every two years a training session will be scheduled by the CVCC Facilities Manager or their designee.
- **Findings & Follow-up Form** – This form is used to follow-up on items identified in the annual SWPPP inspection and also for day-to-day findings or reports from student, faculty, or staff. This document can be found in Appendix B.
- **Spill Response Procedures** – Provides a step-by-step instructional reference for spill response located in Appendix C.

In addition to the documentation above, CVCC incorporates by reference the following:

- **SWPPP Map** - The SWPPP map identifies campus locations most likely to generate pollutants that could be exposed to stormwater runoff, indicates surface flow directions, and identifies discharge locations from the campus. A copy of this map should be accessible to all staff that play a role in Good Housekeeping & Pollution Prevention. The map should be utilized during field inspections as guidance for inspection locations and location-specific concerns.
- **SWPPP Inspection Form** - The SWPPP Inspection Form is used in conjunction with the SWPPP map and completed annually by the Facilities Manager or designee.

Also incorporated by reference into this document and included in the training is the **Nutrient Management Plan (NMP)**. This plan includes conservative practices for the use of nutrients such as fertilizer, and how they can be effectively applied while minimizing adverse effects to surface waters.

3.0 DOCUMENTATION AND REPORTING

CVCC Facilities staff are the first line of defense for preventing generating sites from contributing to an illicit discharge. If Facilities staff detects an Illicit discharge as defined in Section 4.1, report the illicit discharge immediately to the Facilities Manager who shall report the discharge to DEQ within 24 hours. See the IDDE manual for illicit discharge reporting requirements and procedures.

VDOT and the City of Lynchburg have interconnected MS4s with CVCC, meaning there is stormwater being conveyed to and from CVCC property via a point source discharge. Any report from an interconnected MS4 of an illicit discharge originating from the CVCC campus should be immediately reported to the Facilities Manager for investigation and documentation.

Actions that are taken to prevent an illicit discharge are designated as good housekeeping practices and do not need to be reported to DEQ. Facilities staff shall report a good housekeeping issue within 24 hours to the Facilities Manager. A Findings & Follow-up Form shall be used to document good housekeeping issues. Documentation will enable CVCC to access this information if future requests are received concerning the good housekeeping issue in question.

A good housekeeping issue may also be reported by other individuals who are not trained or authorized to perform necessary actions, such as students, faculty, staff, or contractors. These individuals may recognize a good housekeeping issue after learning about pollution in stormwater runoff through CVCC's public education and outreach efforts, or by other means. The CVCC stormwater webpage directs these individuals to contact the Facilities Manager, who will subsequently perform the appropriate follow-up action and complete the documentation. If Facilities staff is notified of a good housekeeping issue, the appropriate action should be taken, and the Facilities Manager shall be notified. Figure 1 summarizes this procedure.

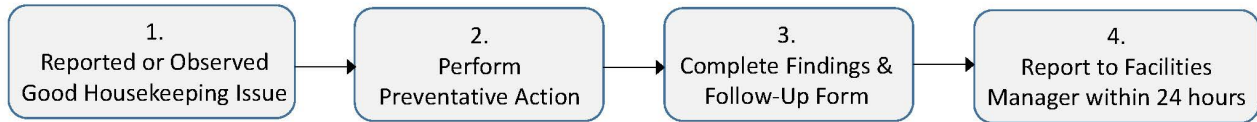


Figure 1. Good Housekeeping Issue reporting procedures for CVCC Facilities staff.

The Good Housekeeping & Pollution Prevention Findings & Follow-up Form is shown in Appendix B of this Manual. This Form demonstrates that any issues found were appropriately addressed, and includes the following information:

- Date of incident;
- Material discharged, released, or spilled;
- Quantity discharged, released or spilled;
- Resolution details; and
- Follow-up on an issue.

3.1 Annual Reporting to DEQ

CVCC must annually report to DEQ information pertaining to its Good Housekeeping & Pollution Prevention efforts. The information is included in CVCC's MS4 Annual Report due by October 1st of each year. Information required for reporting includes:

- Information regarding the development and implementation of the daily operational procedures;
- Information regarding the inspections and necessary follow-up of campus and contractor activities; and
- Information regarding the required training, including a list of training events, the training date, the number of staff attending training, and the objective of the training.

3.2 Good Housekeeping & Pollution Prevention Program Updates and Modifications

Modifications to the Good Housekeeping & Pollution Prevention Program may occur as part of an iterative process to protect water quality at any time. Updates and modifications shall be consistent with the conditions of the MS4 Permit and documented in the annual report.

4.0 STORMWATER POLLUTION PREVENTION PLAN

Under the MS4 Permit, CVCC is required to develop and implement stormwater pollution prevention plans (SWPPPs) for the CVCC campus that:

- Identifies areas with a high potential of generating pollutants or being sources of illicit discharges; and
- Provide procedures to eliminate and/or prevent the sources from entering the MS4.

At the CVCC campus, these can be related to maintenance and operations activities in specific areas, such as a maintenance yard, or they can be general operations activities that might occur at different locations. Once these areas and activities are identified, staff can be more aware of potential sources of pollutants, make annual inspections of facilities and operations, and provide reporting and follow-up documentation as needed.

4.1 Defining an Illicit Discharge

The conveyance systems of an MS4 are vulnerable to contamination and can carry pollutants in stormwater runoff to receiving waters or wetlands. Substances other than stormwater that enter receiving waters are considered an illicit discharge. An illicit discharge can:

1. Be a measurable flow from a storm drain during dry weather that contains pollutants or pathogens;
2. Have a unique frequency, composition, and mode of entry in the storm drain system;
3. Be caused when the sewage disposal system interacts with the storm drain system; and
4. Can be discharges from pollutants from specific source areas and operations known as “generating sites.” Generating sites are identified in this Manual.

For the purposes of CVCC’s Good Housekeeping & Pollution Prevention Program, the Virginia Stormwater Management Program (VSMP) regulation definition for an illicit discharge is generalized as:

Illicit Discharge - Any discharge to an MS4 that is not composed entirely of stormwater, except discharges specifically identified in the Virginia Administrative Code and determined not to be a significant contributor of pollutants to the MS4.

Most sources of an illicit discharge on the CVCC campuses are likely to originate from a generating site or activity, such as from a vehicle washing area or maintenance area. These could result from daily practices or from a specific spill incident. Table 1 provides some of the source pollutants that could be generated from areas of the campus.

Table 1. Examples of source pollutants of an illicit discharge.

<ul style="list-style-type: none">• Automotive fluids (oil, fuel, antifreeze)• Cooking oil and grease• Solvents• Paints• Chemical cleansers (detergents, soaps)• Improperly applied pesticides/herbicides• Improperly managed salts	<ul style="list-style-type: none">• Landscape waste (grass clippings, etc.)• Improperly applied fertilizer• Sediment• Vehicle wash water• Sanitary sewer wastewaters• Dumpster leachate• Trash
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The regulations do have exemptions for some non-stormwater discharges that would not be considered an illicit discharge if not a significant contributor of pollutants to the MS4. Table 2 includes some of the discharges relevant to CVCC that are not a significant contributor of pollutants and are not considered illicit discharges. If there is uncertainty regarding the source or constituents within an observed discharge, the CVCC Facilities Manager should be contacted immediately so a determination can be made.

Table 2. Examples of sources that are not considered illicit discharges.

<ul style="list-style-type: none">• Fire-fighting activities*• Water line flushing• Landscape/lawn irrigation• Diverted stream flows• Rising groundwater• Uncontaminated groundwater infiltration• Uncontaminated pumped groundwater• Individual residential car washing• Noncommercial fundraising car washes if the washing uses only biodegradable, phosphate-free, water-based cleaners	<ul style="list-style-type: none">• Air conditioning condensate• Footing or foundation drains• Springs• Water from crawl space pumps• Dechlorinated swimming pool wastewater• Discharges from potable water sources• Flows from riparian habitats and wetlands• Street wash water• Other activities generating discharges identified by the department as not requiring VPDES authorization
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* Discharges or flows from fire-fighting activities need only be addressed where they are identified as significant sources of pollutants to surface waters.

Additional detail for identification of an illicit discharge is provided in the CVCC **Illicit Discharge Detection & Elimination Manual**.

4.2 Awareness During Daily Activities and Operations

Potential illicit discharges can be identified and removed prior to entering the storm sewer with effective inspections and appropriate follow-up when pollutants appear to be potentially exposed to precipitation, and subsequently stormwater runoff. CVCC’s maintenance and operations staff are in the best position to identify these pollutants such as those identified in Table 1. Figure 2 provides several examples of the observations and actions that could prevent an illicit discharge. If the observer is not qualified or appropriately trained to take the appropriate action, or if illegal dumping is observed, notify the CVCC Facilities Manager or designee.

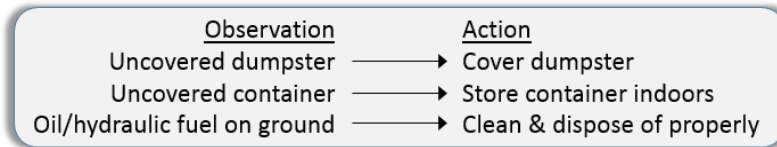


Figure 2. Example daily observations and subsequent actions that can prevent an illicit discharge.

4.3 Special Local Water Quality Concerns

CVCC’s MS4 ultimately discharges to receiving waters that have been identified by DEQ to not meet water quality standards. Subsequent studies, called Total Maximum Daily Load (TMDL) studies, have been performed by DEQ. The TMDL studies identify specific pollutants causing the impairments to the receiving waters and designate the amount of the pollutant the receiving water can assimilate to achieve water quality standards. A required reduction of the pollutant is typically assigned to the MS4s that drain to the impaired segment of the waterway. It is important that CVCC’s maintenance and operations staff be aware of these special pollutants shown in Table 3.

Table 3. Special pollutants of concern.

TMDL	Pollutants of Concern	Approval Date
Chesapeake Bay	Nitrogen, Phosphorous, Total Suspended Solids	12/29/2010
James River - Lynchburg	E. coli	9/27/2017

Nitrogen (N) & Phosphorous (P) considerations: CVCC utilizes its **Nutrient Management Plan** when applying nutrients on campus. This plan includes conservative practices for the use of nutrients such as fertilizer, and how to effectively apply them while minimizing adverse effects. In addition, CVCC utilizes good housekeeping practices and a general sense of awareness for possible nutrient sources in day to day operations.

Sediment (Total Suspended Solids (TSS)) considerations: Possible sediment sources include, but are not limited to, construction and maintenance activities, soil erosion, and stockpiles of sediment-laden material. Proper source controls (e.g., silt fence, gutter buddies, etc.) should be utilized to prevent the

transportation of sediment. In addition, CVCC should utilize good housekeeping practices and a general sense of awareness for possible sediment sources in day-to-day operations.

Bacteria (E. coli) considerations: Possible bacteria sources include, but are not limited to, animal feces and portable toilets. Proper source controls should be utilized to prevent the transportation of bacteria. In addition, CVCC should utilize good housekeeping practices and a general sense of awareness for possible bacteria sources in day-to-day operations.

4.4 Good Housekeeping & Pollution Prevention Inspections

Inspection is an integral practice to CVCC's successful Good Housekeeping & Pollution Prevention Program. The inspection process identifies any items or areas of concern where pollutants have potential to be exposed to precipitation and subsequently discharged to downstream surface waters. If a good housekeeping issue is identified during an inspection, corrective action should immediately be taken to reduce the risk of pollution or contain an existing spill before it reaches the stormwater system.

The SWPPP Inspection Form for inspecting current activities on the CVCC campuses is incorporated via reference. The Facilities Manager or designee shall use this form during inspections as part the annual SWPPP inspection that is required by the MS4 Permit. The inspection serves not only as a means to identify potential issues, but also as documentation that shows CVCC is actively working to prevent illicit discharges in conformance with the MS4 Permit. The MS4 Permit requires an annual SWPPP inspection for each campus; however, because Good Housekeeping & Pollution Prevention plays an integral part in day-to-day operations and is often the first means to prevent pollutants from entering waterways, it is recommended that facilities be visually inspected on a regular basis. The operations staff responsible for the inspection should use the SWPPP Map and SWPPP Inspection Form together during annual site inspections. Completed inspection forms shall be kept on record for three years.

Section 5.0 outlines critical items relevant to Good Housekeeping & Pollution Prevention along with Best Management Practices that should be employed. These sections provide a means to review relevant information prior to a site inspection, a platform on which to conduct training, and as a reference for corrective action in the case that a potential pollution issue is found.

4.5 SWPPP Map

The Stormwater Pollution Prevention Plan (SWPPP) map, incorporated by reference, is intended to relate on-the-ground field operations with Maintenance and Operational Procedures identified in Section 5.0 of this Manual. The map is based on field investigations where the CVCC campuses were evaluated to determine operations and activities that could potentially generate pollutants.

This map should be utilized during Good Housekeeping & Pollution Prevention inspections of each campus. The front of the map shows the campus and several important components associated with

pollution prevention. The MS4 stormwater pipes are depicted along with flow direction arrows, and outfalls are indicated by a yellow triangle. Receiving surface waters are also shown, if on the property. Red circles indicate potential generating sites, or locations where specific operations occur that could potentially be sources of pollutants. These areas are numbered sequentially, such that a person can efficiently walk the site to perform inspections.

The back of the SWPPP Map corresponds with areas identified on the front of the map. For each area, the activity and associated pollutant(s) that could possibly be generated at the location is summarized. For each location, applicable Best Management Practices, the possible pollutants, and identified controls available for addressing sources of pollutants are provided. A reference to the appropriate subsection of the Good Housekeeping & Pollution Prevention Manual is also provided if additional information is necessary to address a concern.

5.0 MAINTENANCE & OPERATIONAL PROCEDURES

The following sections review common procedures and operations that take place at specific locations on the CVCC campuses. These operations may be potential sources of pollutants that can enter and contaminate the stormwater system and the receiving downstream waters. An overview of risk factors associated with each operation is provided, in addition to suggested Best Management Practices to help reduce the potential for contamination.

5.1 Vehicle Washing

Improper vehicle washing can introduce a number of compounds into the MS4, including solvents, grease, sediment, and petroleum products as point source pollution (illicit discharge). Washing vehicles near any part of the MS4, including inlets, ditches, or other conveyances that lead to the storm sewer system, may cause these compounds to pollute a nearby waterway. In order to avoid this, wash vehicles away from the storm sewer system and areas such as mixing pads, staging areas, or other hardened surfaces where vehicle washing is not permitted.

Best Management Practices

- ✓ Wash in designated wash bays that drain directly to the sanitary sewer.
- ✓ Use commercial car washes for typical fleet vehicles.
- ✓ Wash vehicles on pervious surfaces, such as grass (only water - no soap, detergents, wax, etc.).
- ✓ Use nozzles that automatically turn off water when not in use.
- ✓ If detergents or cleaners must be used, collect wash water and dispose of in the sanitary sewer using berms or pumps. Alternatively, use biodegradable detergents/cleaners and ensure that wash water is directed onto a pervious surface (i.e., grass).
- ✓ If washing is done outdoors on a flat pervious surface, the washing area should be visually inspected after each washing event to ensure that no unexpected pollutant sources are visually apparent in the wastewater.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Potential Pollutants

- ❖ Vehicle soap or solvents
- ❖ Oil and hydraulic residue
- ❖ Sediment

5.2 Vehicle/Equipment Maintenance

Vehicle and equipment maintenance practices involve a number of solvents, petroleum products, and other toxic compounds that must be stored and handled in accordance with procedures that prevent potential contamination of the MS4 or associate waterways.

Best Management Practices

For general maintenance:

- ✓ Vehicles/equipment should be maintained inside and under cover with the exception of emergency maintenance not involving fluids.
- ✓ Vehicles/equipment that are leaking any fluids should be put inside and under cover unless a drip pan can be utilized and emptied into the designated hazardous waste containers.
- ✓ Wastewater should be disposed of in the sanitary sewer only.
- ✓ Remove leaking vehicles/equipment from service until repaired.
- ✓ Store leaking batteries in a secondary container.
- ✓ Use detergent-based or water-based cleaning systems instead of organic solvents and degreasers.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Oil and hydraulic fluid
- ❖ Antifreeze
- ❖ Batteries
- ❖ Grease
- ❖ Fuel

5.3 Vehicle/Equipment Storage

Vehicles and equipment are stored at the college due to seasonal operations (snow removal), infrequent use, etc. Vehicles and equipment are potential sources of pollutants into the MS4 and other bodies of water, and therefore, must be stored appropriately. Maintenance should take place in designated locations indoors or under cover, otherwise special care should be taken to ensure spilled or leaked fluids are contained.

Best Management Practices

- ✓ Store vehicles/equipment inside or under cover, if possible.
- ✓ If vehicles/equipment must be stored outside, locate vehicles away from storm drains should leaking occur.
- ✓ Leaking vehicles/equipment should be placed inside or undercover unless a drip pan can be utilized and disposed of into designated waste containers.
- ✓ Clean up any observed spills or leaks and address the source. Ensure that parking areas are free of sediment and debris. Street sweep or clean as required to reduce mobilization of materials in stormwater.
- ✓ Regularly inspect individual pieces of equipment.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Coolant (Antifreeze) – Typically green, yellow, or orange; sometimes pink or blue
- ❖ Oil – Brown or black
- ❖ Fuel – Odor
- ❖ Brake Fluid – Clear, yellow, blue, or red
- ❖ Power Steering Fluid – Red, yellowish brown, reddish brown, or dark brown
- ❖ Transmission Fluid – Pink, red, reddish brown, or black
- ❖ Washer Fluid – Blue or green

5.4 Fueling

CVCC utilizes a number of vehicles for campus maintenance and operations, in addition to other gas-powered equipment. Fuel for fleet vehicles and equipment presents a particularly hazardous set of toxic compounds that can seriously impair the water quality of receiving waterways if spilled or leaked. Extra care must be taken to ensure that staff are adequately trained to avoid spills, clean them if they do occur, and prevent them from entering the storm sewer or any receiving waterways. Other Best Management Practices can also be employed to reduce the risk, in addition to other procedures in applicable permits governing storage tanks.

Best Management Practices

- ✓ Refuel vehicles and equipment offsite at locations with designated fuel areas
- ✓ Onsite refueling locations should be designed to prevent runoff and spills by having an impervious surface graded away from storm sewer inlets.
- ✓ Fuel stations should be covered by a roof at least as large as the grade break or fuel dispensing area, and this cover should direct stormwater to a perimeter drain or away from the area.
- ✓ Install oil control devices in storm drains or basins that may receive contaminated runoff.
- ✓ Install vapor recovery nozzles to reduce drips and vapor.
- ✓ Routinely inspect refueling structures and equipment for proper function and condition, as well as any signs of corrosion or potential failure. Above ground tanks should be inspected periodically by a professional.
- ✓ Always fill tanks and containers in such a manner as to avoid dripping.
- ✓ Avoid “topping off” or filling beyond the normal fill capacity.
- ✓ Fueling should be supervised and never left unattended.
- ✓ Fuel vehicle and equipment on a hard surface, downgradient, and at the farthest practical distance from any storm drain, conveyance, or waterway.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Gasoline and Diesel Fuel
- ❖ Waste Oil

5.5 Dumpsters - Solid Waste Collection and Recycling

Dumpsters and trash cans are potential producers of illicit discharges if polluted materials leak and travel to the storm sewer or receiving waterways. However, as with other waste and chemical storage, proper storage and careful handling will minimize exposure. Dumpsters and trash cans without lids or covers allow rainwater to mix with the waste inside and produce polluted leachate that could then spill during unloading. Dumpsters and trash cans must also remain in good condition where nothing can leak out of the bottom and possibly contaminate the storm sewer and receiving waters.

Best Management Practices

- ✓ Provide only covered containers, rather than those with completely open tops, to reduce the amount of rainwater entering the container and the potential for leaking during normal use.
- ✓ Place recycling containers, cigarette butt receptacles, and trash dumpsters and cans in high pedestrian traffic areas, building entrances, and sidewalks adjacent to parking lots. Increase the number of containers if overfilling is a problem.
- ✓ Install adequate number and size of temporary trash receptacles for special events.
- ✓ Provide adequate containers at service entrances so trash materials from within the buildings are immediately transferred to covered containers during routine cleaning.
- ✓ If collected trash materials are hauled using a vehicle, install an impermeable liner to contain any leakage during transfer. Wash any leakage in designated wash areas that drain directly to the sanitary sewer.
- ✓ Provide a secure area for dumpster loading and unloading to prevent tampering, unwanted dumping, and damage from other vehicles.
- ✓ Routinely inspect dumpster and trash can lids and other surfaces for deterioration or damage that may cause exposure to stormwater or allow leakage.
- ✓ Ensure only proper materials are loaded into the dumpster to avoid accidental mixing of chemicals or introduction of corrosive materials.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Leachate
- ❖ Trash and Debris

5.6 Chemical Storage

CVCC has a number of chemicals onsite that are related to routine cleaning and maintenance, and contractors possessing chemicals and chemical-dispensing equipment may also be on campus. All chemicals that could potentially contaminate stormwater and receiving waters should be clearly marked and stored indoors or in a secure secondary containment outdoors.

Best Management Practices

- ✓ Plainly label containers that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if a spill occurs.
- ✓ Store materials away from high traffic areas and on structures that keep them from coming into contact with the floor.
- ✓ Storage areas, loading, and unloading areas should be covered or enclosed to reduce potential contact with stormwater.
- ✓ Storage spaces and containers should be routinely checked for leaks or signs of deterioration.
- ✓ Provide contract language that requires contractors to appropriately store chemicals and hazardous materials and to be responsible for safe handling and cleanup of any potential spills.
- ✓ Set up periodic pick-up of waste chemicals through a third-party contractor who can assist with providing the proper storage containers and proper disposal.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Solvents
- ❖ Automotive lubricants
- ❖ Pesticides
- ❖ Fertilizer

5.7 Outdoor Loading

Outdoor loading areas are potential sources of illicit discharge if polluted materials leak during transport to/from vehicles and containers. Spilled materials can mix with stormwater and be carried into receiving waters, so proper storage and handling is necessary to help minimize exposure.

Best Management Practices

- ✓ If possible, perform outdoor loading under a tarp or covered structure.
- ✓ Preferably load material in dry weather.
- ✓ Avoid positioning loading areas near storm drains.
- ✓ Grade or berm the loading area so that stormwater drains to a dead-end connection or sanitary sewer, rather than a storm drain or waterway.
- ✓ Routinely inspect loading areas for leaks or signs of deterioration that may cause exposure to stormwater or allow leakage.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Varies based on material being loaded

5.8 Outdoor Material Storage

CVCC stores materials outdoors made of various metals, plastics, erodible materials in bags, or containers with lids. These materials must be stored and handled in accordance with procedures that prevent potential contamination of the MS4 or associated waterways.

Best Management Practices

- ✓ Store all materials in appropriately labeled containers, if applicable.
- ✓ Avoid placing materials near storm drains.
- ✓ Make sure all outdoor storage containers have lids that are kept closed to prevent stormwater contamination.
- ✓ If materials are too large to store in containers, cover with a tarp and appropriately label the area to indicate the stored materials that are present.
- ✓ Provide perimeter controls for erodible stockpiles of materials such as mulch, sand, and gravel to prevent migration into the stormwater system.
- ✓ Routinely inspect outdoor material storage areas for leaking or corrosion of stored substances.
- ✓ Clean up all migrating materials upon discovery and contain the source of the pollutant to prevent potential contamination of stormwater and waterways.
- ✓ Train staff in spill cleanup so that leaks and spills are addressed in a timely fashion.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where an identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Corroded materials
- ❖ Wood preservatives
- ❖ Sediment
- ❖ Mulch

5.9 Outdoor Material Stockpiling

CVCC has material stockpiling areas for the storage of bulk materials such as sand, mulch and gravel. These materials must be stored and handled in accordance with procedures that prevent potential contamination of the MS4 or associated water bodies. Long-term stockpiling is any material that will remain on site for more than 14 days. Inert demolition debris such as broken asphalt and concrete should only be taken for disposal to approved permitted sites with properly designed, installed, and maintained erosion and sediment perimeter controls in place as determined by the Facilities Manager.

Short-Term Best Management Practices

- ✓ Consider placing material on top of an impermeable membrane for quick clean-up.
- ✓ Consider placing an impermeable membrane on top of the stockpile and secure with cinder blocks/weight.
- ✓ When utilizing a portion of the stockpile, remove only a section of the protective covering to prevent moisture absorption and to minimize exposure to precipitation and wind.
- ✓ Store materials sufficiently away from storm drains or water bodies.
- ✓ Clean up all migrating materials upon discovery and repair the source of the migrating pollutant to prevent potential contamination of stormwater.
- ✓ Routinely inspect outdoor material stockpiles for migrating materials.

Long-Term Best Management Practices

- ✓ For soil stockpile storage over 14 days, cover with a tarp or provide temporary turf stabilization to prevent erosion.
- ✓ Store materials sufficiently away from storm drains or water bodies.
- ✓ Provide three-sided jersey barriers to serve as perimeter controls and sediment barriers. Install additional ESC controls as necessary (e.g., erosion eels, etc.).
- ✓ Provide inlet protection or move stockpile where migrating materials may enter storm drains.
- ✓ Clean up all migrating materials upon discovery and repair the source of the migrating pollutant to prevent potential contamination of stormwater.
- ✓ Routinely inspect outdoor material stockpiles for migrating materials.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Migrating bulk material

5.10 Salt Storage/Operations

Road treatment materials used during inclement weather, such as deicing salt and sand grit, should be carefully stored and handled to prevent migration into storm drains and waterways. Currently there are no salt ponds on the CVCC campuses. CVCC stores pallets of bagged salt in an enclosed shed on campus. A snow removal contractor spreads the majority of the salt with salt spreading equipment onto roads, parking lots and sidewalks. CVCC staff will occasionally spread salt on sidewalks by hand as needed.

No deicing agents containing urea or other forms of nitrogen or phosphorus shall be applied to paved surfaces. For proprietary deicing mixtures, request a letter from the manufacturer stating that no forms of nitrogen or phosphorus are in the product and retain records for three years, or keep a product sheet available for reference.

Best Management Practices

- ✓ Storage, loading, and unloading areas should be covered or enclosed to reduce potential contact with stormwater.
- ✓ Another option for seasonal storage of sand/grit is to cover all outdoor material stockpiling areas with a tarp and secure tarp edges with sandbags or other heavier objects.
- ✓ Clean up all migrating materials upon discovery and repair the source of the migrating pollutant to prevent potential contamination of stormwater.
- ✓ During material delivery or loading, immediately clean spilled or tracked materials.
- ✓ Routinely inspect storage areas for migrating materials or deterioration of containment structures.
- ✓ Any salt spreading equipment and deicing materials should be stored such that they are not exposed to precipitation and subsequent stormwater flows, other than during normal use.
- ✓ Utilize written checklist inspections at least once annually.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Salts
- ❖ Sand and sediment

5.11 Power Washing

Power washing can concentrate organic sediment, precipitates, surface material, and cleaning solutions into wash water, which is characterized as an illicit discharge if it enters the MS4. Power washing water, cleaning agents, and other compounds should not enter the storm sewer system or waterways. Care should be taken to prohibit the wash water from flowing into the storm sewer, including roof drains, downspouts, and any other conveyances leading to them.

Best Management Practices

- ✓ Identify storm drains and possible conveyances to storm drains prior to commencing with cleaning or washing and take measures to prevent wash water from entering them.
- ✓ Use dry cleanup methods to remove debris prior to washing surfaces.
- ✓ Determine where wash water may pool and vacuum up or allow it to evaporate.
- ✓ Water not containing chemicals or cleaning agents may be allowed to infiltrate in grass or gravel areas. Wash water containing chemical pollutants must be captured and disposed of in the sanitary sewer. Suspended solids and oils must be removed from the wastewater using booms, absorbent pads, or other devices.
- ✓ Apply minimal water and prioritize dirty areas rather than cleaning or pressure washing an entire surface.
- ✓ Inspect work areas after completion to ensure all potential pollutants have been contained and adequately disposed of.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Sediment
- ❖ Detergents

5.12 Pesticide Application

Anywhere pesticides and herbicides, even when used occasionally, are used or loaded into equipment is subject to an accidental discharge into the MS4. Care should be taken to properly store, handle, and apply these chemicals in much the same manner as other hazardous materials, and only adequately trained staff should be responsible for their use. Applications of pesticides and herbicides over waters of the state or at water's edge are governed under a separate NPDES permit from DEQ.

Best Management Practices

Application:

- ✓ Pesticide and herbicide application must be done by a certified applicator.
- ✓ Apply herbicides and pesticides only after other, non-chemical approaches fail.
- ✓ Determine which products are the most useful and least environmentally harmful for a given situation and use sparingly and in accordance with the manufacturer's recommendations.
- ✓ Use chemical products only during weather conditions appropriate for the application and that will not potentially mix with stormwater in a rain event.
- ✓ Avoid applying chemicals within 5 feet of pavement, 25 feet of storm drain inlets, or 50 feet from a waterway.

Spill Prevention:

- ✓ Spray equipment must be emptied of solutions before loading into vehicles, transportation, and storage.
- ✓ Wash water from application equipment must be disposed of in the sanitary sewer and any leftover material resealed in a container or disposed of at a hazardous waste collection location.
- ✓ Store materials in a secure location and keep containers clearly labeled.
- ✓ Routinely inspect storage areas for leaks or signs of deterioration that may cause exposure to stormwater or allow leakage.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Pesticides

5.13 Street Sweeping

Streets and parking areas are prone to collect and concentrate significant amounts of materials that contribute to polluted runoff into storm sewer systems and waterways. Sediment, debris, trash, automotive fluids, road salt, and trace metals can be minimized by such practices as street sweeping. Standard street sweeping vehicles can be employed for roadways and parking lots with curb and gutter, while smaller equipment can be used in other hardscape areas where material accumulates. In addition to reducing the chance and severity of polluted discharges into downstream waters, the practice also extends the useful life of stormwater basins by reducing the sediment load.

Best Management Practices

- ✓ Establish a schedule that best addresses the rate of accumulation of materials on pavement and hardscapes and adjust the schedule after significant events such as snowfall (sand, salt).
- ✓ Materials collected during cleaning activities should not be temporarily stored onsite. If stored onsite, dewater the material, and then move the material to a location away from water bodies and drainage systems. Provide perimeter controls at the location until such time that the material can be hauled offsite.
- ✓ Equipment washout areas should be kept clean and inlets free of debris and sediment to prevent bypass. Use the minimum amount of water to wash equipment.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Sediment
- ❖ Trash
- ❖ Heavy Metals
- ❖ Automotive lubricants

5.14 Parking Structure Cleaning

Parking structures can accumulate the same materials associated with parking lots, roads, and vehicle storage areas. Automotive lubricants, oils, and antifreeze, even in covered areas of a garage, may be swept into the storm drain system or tracked elsewhere by way of stormwater or vehicle tires. An additional, larger concern with parking structures is the need to apply sand and salt more often than regular parking lots, as the structure will freeze before the ground. These materials can accumulate in significant amounts and pose a serious threat to local waterways, clog stormwater inlets, as well as increase the sediment load to stormwater basins. Regular parking structure cleaning will extend the useful life of stormwater basins and reduce accumulation in inlet sumps and downstream transport.

Best Management Practices

- ✓ Contract a local street sweeping service provider to clean accessible areas of the parking structure. Use smaller, more portable machines to access tighter spaces. Clean remaining areas with vacuum recovery surface cleaners, rather than standard power washers.
- ✓ If vacuum recovery cleaners cannot be employed, all power washing material and wash water must be prevented from entering the stormwater system. Use a series of dams, berms, and diversions to isolate water and material for recovery. Water may be allowed to evaporate, at which point leftover material can be collected. Only wash water free of oils, grit, and material that could clog pipes should be disposed of in the sanitary sewer.
- ✓ Materials collected should be directly transported to an offsite landfill.
- ✓ Ensure oil leaks and spills are managed appropriately. If leaking vehicles are stored in parking garages or structures, consider moving the vehicle away from storm drains and placing a drip pan beneath the leaking equipment. Captured leaking fluids should be disposed in designated hazardous waste containers.
- ✓ Install inlet protection before performing any maintenance operations where sediment or other pollutants could enter the storm system.

Maintenance Schedule

Establish a schedule that best addresses the rate of accumulated salt and sand on parking structures and amend the schedule as needed after precipitation events. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Oil and hydraulic fluid
- ❖ Antifreeze
- ❖ Grease
- ❖ Fuel

5.15 Storm Drain Maintenance

Storm drains are often the point of entry into the storm sewer system, and they need to be cleaned and maintained on a regular basis to reduce the amount of pollution, trash, and debris into receiving waterways. Clogged drains can overflow, thereby increasing the volume of water flowing into downstream structures and waterways, as well as the chances for damage and erosion.

Best Management Practices

- ✓ Maintain an accurate storm sewer map and information table depicting all components of the MS4 and receiving waterways.
- ✓ Establish a routine inspection schedule for observing structural conditions and for screening potential illicit discharges.
- ✓ Utilize a vacuum truck for emptying materials trapped in drainage inlets and junction sumps or otherwise dispose of materials in accordance with state and federal regulations.
- ✓ Keep impervious surfaces clean of trash, debris, and sediment.
- ✓ Mark drainage inlets to maintain public awareness about illegal dumping.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Trash and debris
- ❖ Sediments
- ❖ Oil and Grease
- ❖ Antifreeze
- ❖ Paints
- ❖ Cleaners and solvents
- ❖ Pesticides
- ❖ Fertilizers
- ❖ Animal waste
- ❖ Detergents

5.16 Exterior Building Maintenance

Maintenance of building exteriors may involve a number of different practices, from cleaning to resurfacing. Pressure washing, for example, can concentrate organic sediment, precipitates, surface material, and cleaning solutions into the wash water, which is characterized as an illicit discharge if it enters the MS4. Power washing water, cleaning agents, and other compounds should not enter the storm sewer system or waterways. Care should be taken to prohibit fluids from flowing into roof drains, downspouts, and any other conveyances leading to them.

Best Management Practices

Cleaning:

- ✓ Identify storm drains and possible conveyances to storm drains prior to commencing with cleaning or washing and take measures to prevent wash water from entering them.
- ✓ Use dry cleanup methods to remove debris prior to washing surfaces.
- ✓ Determine where wastewater may pool and vacuum up or allow it to evaporate.
- ✓ Water not containing chemicals or cleaning agents may be allowed to infiltrate in grass or gravel areas. Wash water containing chemical pollutants must be captured and disposed of in the sanitary sewer. Suspended solids and oils must be removed from the wash water using booms, absorbent pads, or other devices.
- ✓ Prioritize dirty areas rather than cleaning or pressure washing an entire area.

Painting:

- ✓ Use water-based paints and thinners instead of oil-based whenever possible.
- ✓ Mix paint indoors before starting work to minimize the potential for spills entering the MS4.
- ✓ When spray painting, use smaller paint containers with high pressure sprayers to minimize waste.
- ✓ Clean water-based paint off of brushes in a sink connected to the sanitary sewer. Oil-based paint waste must be reused, recycled, or disposed as hazardous waste.
- ✓ Use impermeable drop cloths.
- ✓ Immediately clean up all spills when they occur.
- ✓ Recycle or donate excess paint.
- ✓ Allow paint containers to completely dry before disposal.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Paints and Solvents

5.17 Landscape Management

Typical landscape maintenance practices can produce stormwater contaminants such as pesticides, soil, fertilizers, and debris which can pollute receiving waterways. Maintaining an attractive campus landscape can require considerable efforts in pruning, dressing, watering, and fertilizing. Steps can be taken to reduce the harmful effects of these practices on the stormwater system and water flowing into waterways by reducing the number of inputs and waste, and by keeping maintenance crews adequately trained in Best Management Practices. CVCC should never apply any de-icing agents containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces. The MS4 permit requires that a turf and landscape nutrient management plan be developed by a certified turf and landscape management planner on all lands owned by CVCC where nutrients are applied to a contiguous area greater than one acre.

Best Management Practices

- ✓ Compost lawn wastes and re-till into the soil of planting areas or mix into mulch.
- ✓ Minimize turf areas by planting groundcovers, wildflowers, and shrubs, thereby reducing mowing and water requirements.
- ✓ Select drought and heat resistant turf species, and do not cut turf shorter than 3 to 4 inches. Mulching mower clippings should be left on the turf as a natural fertilizer, and ensure clippings are swept away from paved surfaces.
- ✓ Replace exotic plant species when necessary with regional, indigenous plants, which are typically more water efficient and disease resistant.
- ✓ Utilize low-volume irrigation methods and only water areas as needed to enhance plant root growth and avoid excessive runoff.
- ✓ Avoid stockpiling materials leftover from landscape maintenance. Install composting facilities for light litter and remove other materials to an offsite recycling/composting facility.
- ✓ Routinely inspect work areas to ensure materials do not migrate to storm sewer inlets or water bodies.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Sediment
- ❖ Landscape Materials
- ❖ Fertilizers & Pesticides

5.18 Road Maintenance

Campus roads are traveled frequently by campus users and for maintenance activities. Vehicles have the potential to contaminate the MS4 and nearby waterways, but careful maintenance of these areas will prevent these consequences from occurring.

Best Management Practices

- ✓ Ensure roads are free of sediment and debris. Street sweep or clean as required.
- ✓ Ensure oil drippings and spills are managed appropriately. If leaking vehicles are stored in the street, consider moving the vehicle away from storm drains and placing a drip pan beneath the leaking equipment. Captured fluids should be disposed in designated hazardous waste containers.
- ✓ Park maintenance equipment and portable toilets away from storm sewer connections.
- ✓ Install inlet protection before performing any maintenance operations where sediment or other pollutants could enter the storm system.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Fuel
- ❖ Oil
- ❖ Hydraulic Fluids
- ❖ Grease

5.19 Dewatering Structures

Dewatering structures are devices designed to temporarily settle and filter water discharged from dewatering activities by means of pumping for utility construction and various maintenance activities. The purpose is to filter the sediment-laden water prior to the water being discharged off-site.

Best Management Practices

- ✓ A well-stabilized, vegetated area onsite may be used to filter sediment, if the area can withstand the velocity of the discharged water without eroding; and a minimum of 75 feet filtering length must be available.
- ✓ Size and operate a dewatering structure to allow pumped water to flow through the filtering device without overtopping the structure.
- ✓ Portable Sediment Tanks, Filter Boxes and Straw Bales/Silt Fence Pits are all dewatering devices with specific design criteria that can be found in the Virginia Erosion and Sediment Control Handbook Standard and Specification 3.26.
- ✓ An excavated basin (applicable to straw bale/silt fence) may be lined with filter fabric to help reduce scour and prevent inclusion of soil within the structure.
- ✓ Manufactured dewatering devices such as filter bags can also be used per manufacturer's recommendations.

Maintenance Schedule

Immediately place source controls where the identified issue is a potential concern to water quality. Conduct maintenance on the pollutant source as soon as practicable. The Facilities Manager should retain records of any maintenance work and store on-site alongside this document.

Commonly Generated Pollutants

- ❖ Sediment

6.0 WASTE MANAGEMENT & DISPOSAL PROCEDURE

Responsible management of chemical and materials wastes can greatly reduce the amount of pollution in stormwater runoff. The following sections describe the recommended procedures for managing and disposing of waste materials CVCC staff may encounter. For any of the materials listed below, always see the Safety Data Sheets (SDS) if available. The Good Housekeeping & Pollution Prevention Manual is not meant to supersede or replace any Material Safety Data Sheet or manufacturer's instructions, but rather supplement them and further reduce stormwater pollution.

6.1 Aerosol Cans

Aerosol cans should be properly disposed of as hazardous waste. Contact a local hazardous waste disposal vendor to transfer the materials offsite to their facility. Recycling is also an acceptable option; however, cans must be punctured and emptied after final use, and the contents must be separately stored and disposed of as hazardous waste. CVCC is a minimal quantity generator of aerosol cans, mainly relating to janitorial services, and is not likely to accumulate the necessary volume to make recycling efficient.

A waste disposal vendor will typically provide either a 55-gallon steel drum, fiber drum, or fiber box for collection of aerosol cans, and this container should be placed at a location central to waste collection and storage of other chemicals. The container should remain closed and labeled as "Aerosol Cans." Once the 55-gallon limit is reached, contact the vendor within three days and have them transfer the container offsite. Do not move the container to another offsite location. Obtain a hazardous waste manifest from the vendor and keep the records on file for three years.

6.2 Animal Carcasses

Roadside and property management of animal carcasses is generally dictated by the location and situation, with priority given to ensuring public safety by immediately removing the carcass from the area. Carcasses should be disposed of at a landfill or in a covered dumpster that is frequently emptied.

6.3 Antifreeze

Place used antifreeze in a drum or tank and clearly label as "Used Antifreeze." The container should remain closed when not in use and must be in good condition, with no other fluids being added. Contract a local hazardous waste disposal vendor to transfer the container offsite when it is full and maintain records about the vendor and the final destination of the container for three years.

6.4 Batteries

Traditional alkaline batteries (AA, AAA, C, D, 9-volt) are not regulated by the EPA and can legally be thrown away with other, non-hazardous waste. However, types of batteries that are classified as Universal Waste must be collected, stored, and recycled include: Nickel Cadmium, Nickel Metal Hydride, Lithium Ion, Lithium, Mercury, Silver, Lead Acid, Lead Acid Flooded Cell Batteries, Non-Spillable Lead Acid Batteries, Sodium Batteries, and Potassium Hydroxide.

Recycling vendors are available and may provide a storage container and option to mail the materials to their location, or the batteries can be transported to the nearest recycling facility. Batteries to be recycled should be clearly marked as “Waste Batteries” or “Used Batteries.” The battery collection container should have the date that the first battery is collected marked on the outside. Batteries can be stored in the container for up to one year of the marked date. Maintain records for the final destination of the batteries once they leave the site to a recycling facility or vendor for three years.

6.5 Empty Containers

All empty containers should be properly stored to reduce degradation until such time as they are recycled or disposed of at a landfill. Best practices include keeping the containers closed and storing them together in a covered area. Label the containers as “Empty.”

- Disposal of empty containers previously storing non-hazardous/non-RCRA materials such as oils and diesel fuel:
 - Empty the containers. Use absorbents such as rags or oil dry (no liquids) to help capture the remaining material. Dispose of the containers.
- Disposal of empty containers previously storing hazardous/RCRA non-acute hazardous materials or wastes such as gasoline, low flashpoint solvents, and some paints:
 - Empty the containers so that the remaining residue at the bottom is one inch or less. Use absorbents such as rags or oil dry (no liquids) to help capture the remaining material. Dispose of the containers.

Containers not yet disposed of or recycled can be kept in a central, secure, storage area. Containers must be closed and clearly labeled “Empty Container – Hazardous Waste” and inspected weekly. Containers can be stored for up to 180 days and disposed of by a hazardous waste vendor. Obtain a hazardous waste manifest from the vendor and keep it on file after disposal for three years.

6.6 E-Waste (Monitors and Computers)

All computers, monitors, and other electronic waste should be properly disposed of and/or recycled through an electronic waste vendor. Maintain records of the final destination of the e-waste from the waste hauler for three years.

6.7 Filters - Oil, Gas, or Diesel

Used filters may either be disposed as solid waste or as hazardous waste under the following conditions:

Used Oil Filters

Oil filters can be disposed of as solid waste when punctured and drained. Drain into an enclosed container labeled "Used Oil." Maintain records of the final destination of the filters from the waste hauler for three years.

Used Diesel Fuel Filters

Diesel fuel filters can be disposed of as solid waste when punctured and drained. Drain into an enclosed container labeled "Used Diesel Fuel." Maintain records of the final destination of the filters from the waste hauler for three years.

Used Gasoline Filters

Used gasoline filters must be managed according to hazardous waste requirements, at or near their point of generation with storage limits up to 55 gallons. Place drained filters into a container labeled "Used Gasoline Filters". Once the 55-gallon threshold is met, the container must be shipped off-site by a hazardous waste hauler. Maintain records of the final destination of the filters from the waste hauler for three years.

6.8 Fluorescent Lamps, HID, and Metal Halide Lights

Types of lamps that are considered Universal Waste under the Resource Conservation and Recovery Act (RCRA) and must be collected, stored, and recycled include: fluorescent bulbs, high-intensity discharge (HID), metal halide, neon, mercury vapor, and high-pressure sodium lights.

Lamps may be collected in an empty box the new ones came in or purchased from a lamp recycling vendor. The lights must be securely stored and unbroken. Label the containers as "Waste Lamps" or "Used Lamps" and indicate the date the first lamp was placed there. Broken bulbs must be contained in leak proof containers. Check with the vendor to see if they will take broken bulbs as well as unbroken. Dispose of the lamps at the nearest recycling facility and maintain a record of disposal for three years.

6.9 Fluorescent Light Ballasts (PCB and Non-PCB)

Polychlorinated biphenyls (PCBs) can be present in the solid potting material and in the capacitors of fluorescent light ballasts (FLB) manufactured before 1979, and these devices may still be in use with fluorescent lights in buildings from that era¹. Non-leaking light ballasts are restricted to disposal in sanitary or industrial landfills with leachate collection, liners, and appropriate groundwater monitoring.

¹ PCB-containing fluorescent light ballasts that are currently in use have exceeded their designed lifespan and pose significant risk. EPA recommends removing PCB-containing FLBs from buildings as soon as possible to prevent potential inhalation or dermal exposure.

A PCB-containing FLB failure, leak, smoking condition, or fire requires the following:

- Isolate the affected area from central ventilation and ventilate the air separately.
- Relocate persons from the affected area.
- Hire experienced cleanup personnel to clean up and decontaminate equipment and surfaces.
- Comply with environmental regulations for proper storage and disposal of contaminated equipment and cleanup materials.

Storage of Non-Leaking Equipment

- Non-leaking equipment can be stored for 30 days, after which point storage is subject to more stringent requirements.
- Dispose of the non-leaking ballasts as a solid waste in a municipal solid waste landfill.

6.10 Freon

EPA requires service shops to use approved refrigerant recovery equipment for repair of air conditioning systems in motor vehicles. CVCC technicians using refrigerant recovery equipment must be trained and certified by an EPA-approved organization. To comply with the requirements, service shops must send the Motor Vehicle Air-Conditioning (MVAC) Certification form to EPA along with the facility name and address, name of equipment manufacturer, equipment model and serial number, and a manufacture date. Maintain records for three years of the technician certifications and the name and address of the reclamation facility.

6.11 Landscape Materials

Leaves, twigs, lawn clippings and brush can accumulate from landscape maintenance activities. Haul landscape waste to a dump that accepts landscape materials.

6.12 Mercury Switches and Equipment

A mercury switch or equipment is any device containing mercury integral to its function (e.g. thermostats, appliances). Spilled or exposed mercury poses significant risk as it can evaporate and become an invisible, odorless and toxic vapor. They are classified as Universal Waste and must be collected, stored, and recycled while intact in the device.

- Collect unbroken mercury switches and equipment in an empty container marked “Waste Mercury Switch/Equipment” or “Used Mercury Switches/Equipment.” Mark the outside of the container with the date the first item is placed in the container.
- Store for up to one year in an enclosed container onsite. Transfer the materials to a local recycling facility or contact the local hazardous waste authority to be properly disposed.
- Maintain a record of the final destination of the equipment for three years.
- If mercury is spilled or exposed, isolate the area and hire experienced professionals to clean up and decontaminate equipment and surfaces.

6.13 Oil, Gas, Diesel, and Cooking Grease Waste

Waste fuels and oils must be stored in separate, enclosed drums or tanks and clearly labeled as “Used Oil,” “Used Diesel Fuel,” “Used Gasoline,” or “Used Grease.” Each container should remain closed unless in use and should remain in a covered, secured area. Contact a waste vendor when the container is full and maintain records from the vendor for three years.

Used oil can be burned provided that:

1. Only used oil that the facility generates or received from household DIYs is burned in the heater,
2. The space heater is rated more than 0.5 million Btu/hour; and
3. Combustion gases from the space heater are vented to the ambient air.

If the space heater does not meet all of the above requirements, Part 279, Subpart G burner standards apply.

6.14 Paint Waste - Latex, Solvent, or Oil-Based

Paints and liquid surface coverings such as polyurethane should be stored in containers that are clearly labeled and remain closed. Store containers in a secure, covered area off the floor.

Latex Paint

Latex paint is non-hazardous, and its containers may be discarded once completely empty and does not contain free liquid. Absorbents can be used to remove any remaining free liquid or spread the paint on cardboard or newspaper and allow the container to dry completely before disposal as solid waste.

Solvent or Oil-Based Paints

These paints, including stains, sealers, and associated thinning agents, should be managed as hazardous waste due to their flammability or hazardous components they may contain. If minor amounts are leftover and cannot be used, use absorbents to remove any remaining free liquid, or spread the paint onto newspaper or cardboard and allow to dry completely before disposal as solid waste. If the quantity is large, contact a hazardous waste disposal vendor and maintain records of the disposal for three years.

6.15 Parts Cleaners

Low-Flashpoint Solvents

Low-flash solvents contained in parts washers become hazardous waste once the solvent becomes too contaminated to clean effectively. Unless the parts washers are under a regularly scheduled service agreement, a hazardous waste vendor should be contacted when the solvents become ineffective at cleaning. Maintain records of the final destination from the waste hauler for three years.

High Flashpoint Solvents

Waste solvents with a high flashpoint are not typically hazardous and can be recycled, unless the solvent is tested for pH and toxicity and is determined to be hazardous waste. Contact the vendor for related information or contact a hazardous waste vendor for disposal. Maintain records of the final destination from the waste hauler for three years.

Aqueous Solvents

Waste aqueous solvents are typically not hazardous and can be recycled, unless they have become highly contaminated with materials from the washed parts, such as toxic metals and oils. Unless the spent liquid is tested, it should be assumed that it is hazardous and should be treated as other solvents by a waste vendor. Maintain records of the final destination from the waste hauler for three years.

6.16 Pesticides

Herbicides, insecticides and fungicides, etc. are all considered pesticides under EPA regulation. Containers should be stored in a covered area on impervious flooring, and containers should be segregated according to type. Ensure all containers are labeled and kept closed and remove only the amount expected to use until the container is empty.

Never pour leftover pesticides down the sink, into the toilet, or down a sewer or street drain. Pesticides may interfere with the operation of wastewater treatment systems or pollute waterways, where they may harm fish, plants, and other living things. Pesticide containers may be managed as a hazardous waste, recycled, or returned to the vendor, as described below.

Partially Full Containers as Hazardous Waste

- Pesticides that cannot be completely used and the containers are partially full should be marked as “Waste Pesticide” or “Used Pesticide.”
- Contact the local hazardous waste authority for disposal as hazardous waste. Maintain a record of the final destination for used pesticide containers for three years.

Empty Containers for Disposal or Recycling

- Containers should be rinsed three times with potable water and disposed as solid waste or recycled. Save the rinse water in separate container for future applications. If the rinse water is not reused it must be properly managed. Contact the local hazardous waste authority for guidance on proper disposal.

Partially Full Containers Returned to the Vendor

- Some vendors may accept returned pesticides. Keep all containers clearly marked with original labeling and contact vendor for proper handling and shipment.

6.17 PCB-containing Materials

Dispose of non-liquid PCB-containing materials in a Toxic Substance Control Act (TSCA) approved chemical waste landfill or TSCA-approved incinerator. Dispose of PCB oils in a TSCA-approved incinerator.

6.18 Rags, Wipes, and Absorbents

Disposal methods vary for rags, wipes, and absorbents, depending on the type of substance absorbed. They will either fall under the Used Oil Regulation, the Hazardous Waste Regulations, or the Solid Waste Regulations.

Absorbents Used to Capture Used Oil

Waste rags, wipes, and absorbents containing oil (such as motor oil, hydraulic oil, etc.) may be discarded in the trash or laundered at an industrial facility if they are not dripping or completely saturated with oil. Materials that are saturated with used oil should be wrung out or otherwise managed to remove as much free-flowing oil as possible. The extracted oil should be contained with other used oil and recycled by a used oil vendor, and the non-saturated absorbent materials can be discarded in the trash. Any materials that are saturated with oil should be kept in a closed container marked "Used Absorbents" and picked up by a used oil vendor for disposal. Maintain records of the final destination of all materials from the waste hauler for three years.

Absorbents Used to Capture Diesel Fuel

Waste rags, wipes, and absorbents containing diesel fuel may be discarded in the trash or laundered at an industrial facility if they are not dripping or completely saturated with diesel fuel. Materials that are saturated with used oil should be kept in a closed container marked "Used Absorbents." Contact a used oil vendor when the container is full and keep records of the final destination from the waste hauler for three years.

Absorbents Used to Capture Hazardous Materials

Waste rags, wipes, and absorbents containing hazardous materials such as gasoline, solvent or oil-based paint, and some solvents and cleaners must be managed as hazardous waste. Collect the materials into a barrel or bucket with a tightly fitting lid and marked as "Waste Absorbents" and contact a hazardous waste vendor when full and keep records of the final destination from the waste hauler for three years.

6.19 Scrap Tires

The primary means of scrap tire disposal is recycling through a registered waste tire hauler or at a scrap tire facility. If tires cannot be recycled, they can be taken to a landfill that accepts waste tires. Virginia regulation states that no more than 100 scrap tires may be stored on site at any one time without a Solid Waste Permit. When the tires are transported off the site, keep records of the final destination for three years.

6.20 Solid Waste Trash

All solid items not recycled or managed as hazardous waste may be considered as solid waste and disposed of using a trash collection service or municipal landfill. Liquids generally cannot be disposed of in regular trash collection service and the local hazardous waste authority should be consulted if suspect liquids are in the waste collection. Recycling vendors may collect additional liquid wastes that are not listed in this document.

Waste should be collected in bags that are securely closed and transferred to a lidded dumpster in good condition. Loose trash from unsecured collection could blow into stormwater drainage areas or come in contact with stormwater and potentially contribute pollutants into receiving waters.

6.21 Surplus and Excess Property

Materials and property that are no longer in use and stored should be managed carefully so that they are expeditiously transferred to their next user or location. Materials should not be stockpiled in locations where they might deteriorate and potentially cause pollutants to enter the stormwater.

6.22 Treated Lumber

The priority for treated timber is to first find potential for reuse in another project. If the materials are being discarded, conditions apply based on the chemicals used to treat the wood.

Timber Treated with Chromated Copper Arsenate (CCA):

The Resource Conservation and Recovery Act (RCRA) exempts CCA treated lumber from hazardous waste regulation as long as the wood is in the same form it was for its intended use. Mulch, for example, is not exempt and cannot be legally sent to the landfill.

Timber Treated with Creosote:

Though not required by EPA regulation on weathered wood, a disposal facility may require Toxic Characteristic Leachate Testing (TCLP) prior to disposal. New creosote treated timber must be tested to

determine if it is hazardous prior to disposal. Contact the local hazardous waste authority for further guidance on testing.

Timber Treated with Pentachlorophenol (PCP):

All PCP treated timber must be tested prior to disposal. Contact the local hazardous waste authority for guidance.

APPENDIX A: Training Documentation

MS4 Training Documentation Form

Trainer: _____ Training Objective: _____ Date: _____

	Print Name	Position
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APPENDIX B: Findings & Follow-up Form

Good Housekeeping FINDINGS & FOLLOW-UP FORM

This finding was a result of: Routine Inspection Day to Day Good Housekeeping Complaint

If a result of a complaint, who was the source? _____

Location of incident or finding: _____

Date of incident or finding: _____ Material discharged, released, or spilled: _____

Quantity discharged, released, or spilled: _____

Was finding resolved? Yes No

If yes, please explain clean-up measures and disposal. If no, please explain why it was not resolved.

Is any follow-up action required? Yes No

If yes, please explain.

Notes:

Date Follow-up Action Taken: _____

Description of Follow-up Action:

Has Finding Been Addressed: Yes No

If no, describe any action necessary:

Attach photographs to this form and retain for records.

APPENDIX C: Spill Response Procedures

In the Event of a Spill or Discharge

1. Contact Facilities. Report any spill or discharge immediately to the Facilities Manager at (434) 832-7736. If spill is large and hazardous call The Fire Department at 9-1-1.

2. Assess the risk. When a spill occurs, determine the risks that may affect human health, the environment and the property. This may be done easily in cases where the type of contaminant spilled is known. In situations where the contaminant is unknown, determining risks may involve some investigation. In cases where the chemical is unknown, the spilled material may be identifiable from the container label or the Safety Data Sheet.

3. Select personal protective equipment (PPE). It is crucial that the appropriate PPE is chosen to stop, confine, and cleanup the contaminant. Appropriate PPE may be a pair of gloves, eye and foot protection, or face masks. If the chemical is unknown and the risk level uncertain, use the highest level of caution and protection. Refer unknown chemical cleanup to the Fire Department and do not attempt to cleanup without appropriate guidance.

4. Stop the source. Stopping the source of a spill may involve turning a container upright, plugging a leak or moving an operation. In any case, the source leak or spill should be controlled as quickly as possible.

5. Confine the spill. It is crucial to confine the spill before it reaches waterbodies or storm drains. In some cases, this step may need to occur before stopping the source. The proper containment measures necessary should be assessed based on the size and type of the spill. A small spill may be confined with the application of absorbent, whereas a larger spill may require absorbent pads/socks. Spill kits should be utilized where applicable to block nearby storm drains and prevent the movement of the spill. If a large spill of fuel, sewage, or other hazardous materials occurs, contact the Fire Department to assist in response and cleanup.

6. Evaluate the incident and implement cleanup. Once the spill is stopped and confined, the person responsible for cleanup should develop a plan of action to cleanup the spill. The person conducting the cleanup should make sure that they have enough spill response supplies to adequately deal with the spill. Once the chemical is cleaned up or the absorbents are saturated, they may contain hazardous waste and should be disposed of properly. See the Waste Management and Disposal Procedures section of Good Housekeeping & Pollution Prevention Manual for disposal guidance.