

SOUTHERN MAINE COMMUNITY COLLEGE
Municipal Separate Storm Sewer System
2022-2027 State/Federal General Permit
Permit # MER042004

YEAR 2 (2023-2024) ANNUAL COMPLIANCE REPORT



2 Fort Road
South Portland, ME 04206

Prepared by Jennifer Oteni
Environmental Health and Safety Coordinator

SUBMITTED ELECTRONICALLY
SEPTEMBER 2024

INTRODUCTION

This is the annual compliance report for Southern Maine Community College (SMCC) as required under the *General Permit for the Discharge of Stormwater from Small State and Federally Owned Municipal Separate Storm Sewer Systems* (MS4) issued by the Maine Department of Environmental Protection (DEP).

The information herein reflects stormwater activities and compliance for the period from July 1, 2023 to June 30, 2024. This time period will be referred to as Permit Year 2 (PY2).

The Stormwater Management Plan and the General Permit require SMCC address six Minimum Control Measures or MCMs. For each MCM, SMCC has defined specific Best Management Practices (BMP's) which will be implemented in accordance with the schedule of compliance established in the college's Modified Stormwater Management Plan dated September 23, 2022.

During PY2, editorial changes were made to Section 10 of SMCC's SWMP list of Duly Authorized Representatives to ensure job titles listed reflect current roles/responsibilities at the college.

MCM 1 - EDUCATION/OUTREACH PROGRAM

Southern Maine Community College is a member of the Casco Bay Interlocal Stormwater Working Group (ISWG) – pronounced “izzy-wig”. ISWG is a coalition of 14 MS4 municipalities and two nested colleges in the greater Portland and Saco. This coalition is facilitated by the Cumberland County Soil and Water Conservation District (CCSWCD).

Southern Maine Community will fulfill the requirements for the Public Education/Outreach Program (MCM1) through participation in ISWG.

BMP 1A: Outreach to Raise Awareness Campaign

Message: “Water that lands on our roads, roofs, and other hard surfaces picks up pollutants and carries them to our local waterbodies without being treated.”

Tool 1: Think Blue Maine Website Content updated in September 2023 by adding a new page on road salts as a water pollutant and providing tips to reduce salt use safely and act as landing page for chloride ads. Website traffic: 1,148; updated January 2024 by adding instructions on how to brew your own salt brine to the "Road Salt" page. Website traffic: 4,293.

Tool 2: 12 posts on Think Blue Maine Instagram account on 10/6/23, 10/16/23, 10/31/23, 11/10/23, 12/1/23, 1/3/24, 2/7/24, 3/5/24, 4/15/24, 5/17/24, 6/1/24, 6/15/24. Post engagement: 42 Post Views: 324

Tool 3: Social media ad on Think Blue Maine Instagram account from 1/4/24-4/4/24. Ad engagement: 471 People reached: 3,288

BMP 1B: Outreach to Change Behavior Campaign

Behavior Change - Ages 25-34

Message: "Dispose of dog waste as a solid waste, so it does not end up in our stormwater. Once in the stormwater, dog waste contributes nutrients, bacteria, and pathogens to our ponds, lakes, streams, rivers, and bays, which can lower property values, harm our drinking water, and hinder recreational and economic opportunities."

Tool 1: 12 posts shared on Think Blue Maine Instagram account on 10/12/23, 10/31/23, 11/11/23, 11/24/23, 12/10/23, 12/24/23, 1/1/24, 1/17/24, 1/30/24, 2/13/24, 2/28/24, 3/14/24 Post Engagement: 30 Post Views: 310

Tool 2: 3 Instagram Videos on 3/6/24, 4/12/24, 5/14/24. Video engagement: 7 Video reach: 348

Tool 3: 3 Outreach Events 7/15/23, 8/27/23, 9/15/23, 10/20/23, 62 interactions in age group.

Pet waste bag refill rolls distributed (branded item for both BMP 1.2 audiences): 1,071
Field survey second survey deposits (for both BMP 1.2 audiences): 3 deposits on the Willard Beach & Spring Point Trail in South Portland. SMCC observed ZERO catch basins with dog waste during PY2 drain cleaning.

Behavior Change - Ages 35-55

Message: "Dispose of dog waste as a solid waste, so it does not end up in our stormwater. Once in the stormwater, dog waste contributes nutrients, bacteria, and pathogens to our ponds, lakes, streams, rivers, and bays, which can lower property values, harm our drinking water, and hinder recreational and economic opportunities."

Tool 1: 12 posts shared on Think Blue Maine Facebook account 10/7/23, 10/25/23, 11/1/23, 11/16/23, 12/4/23, 12/17/23, 1/10/24, 1/25/24, 2/8/24, 3/23/24, 4/3/24, 4/30/24 Post Engagement: 30 Post Views: 4,817

Tool 2: 3 Outreach Events 9/15/23, 9/28/23, 9/28/23, 10/2/23, 10/5/23, 10/6/23, 10/10/23, 36 interactions in age group.

Tool 3: 90-day Facebook ad(s), 2 ads; 12/19/23-3/18/24 Ad engagement: 653, People reached: 2,283; 1/4/24-4/4/24 Ad engagement: 263, People reached: 3,411

BMP 1C: Effectiveness Evaluation

The details presented above provide an evaluation of program effectiveness for MCM1.

The Effectiveness Evaluation - PY5 is not applicable this permit year.

Non-Permit Required Activities Which Took Place During PY2

Throughout PY2, [SMCC continued to link our intranet](#) to the Think Blue Maine.org website and the Cumberland County Soil & Water Conservation District YardScaping website as resources for our employees.



On 9.13.2023, educational signage was installed at SMCC's two pet waste dispensers to educate dog walkers on the impact pet waste has on stormwater and the Casco Bay. *Photos above.*

MCM 2 - PUBLIC INVOLVEMENT AND PARTICIPATION

Southern Maine Community will fulfill the requirements for the Public Education/Outreach Program (MCM2) through participation in ISWG.

BMP 2A: Public Notice Requirement

In PY2, SMCC had no stormwater activities which required Public Notice.

A copy of SMCC's Stormwater Management Plan (SWMP) which contains our Notice of Intent (NOI) is posted on the "[Consumer Information](#)" section of the [SMCCME.edu website](#) under the section titled "Health & Safety."

Details on the college's participation in ISWG and information on ISWG meetings is posted on the Environmental Health & Safety portlet of the [my.smccme.edu](#) website which is accessible to staff, students, and the general public.

ISWG met on: 7/20/23, 9/21/23, 11/16/23, 1/18/24, 3/21/24, and 5/16/24. The SMCC EH&S Coordinator attended all six ISWG Meetings. ISWG meetings are public noticed through CCSWCD website.

BMP 2B: Public Event

81 people participated in April Stools Day on April 27, 2024. SMCC partnered with the City of South Portland at Willard Beach and talked to dog walkers and provided educational resources and proper disposal tools. On 4/16/2024 SMCC hung event fliers on 8 prominent bulletin boards on campus and the event was advertised through the college's website and social media accounts on 4/19/24, 4/26/24. The event was promoted on the Cumberland County Soil & Water Conservation District's social media accounts and website on Meta 4/15/24, 4/24/24.



MCM 3 - ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM

Southern Maine Community College continues to implement its Illicit Discharge Detection and Elimination (IDDE) program, which includes:

- A Watershed-based map of the stormwater infrastructure,
- Maintain a Non-Stormwater Discharge Procedure
- A written IDDE Plan which describes:
 - Inspections of the infrastructure during dry weather
 - Investigations of potential illicit discharges,
 - A Quality Assurance Project Plan (QAPP)
- A list of outfalls that have the potential to cause illicit discharges during wet weather.

Below is a summary of how SMCC meet MCM3 during PY2.

BMP 3A: Maintain the College's Non-Stormwater Discharge Procedure

On 10.11.2023 the EHS Coordinator reviewed the SMCC Non-Stormwater Discharge Procedure for accuracy and found updates or revisions were not required.

BMP 3B: Creation of a Written IDDE Plan

A written IDDE Plan, which includes a QAPP was written in 2022 and submitted with the Modified Stormwater Management Plan on September 23, 2022. Revisions were not required during PY2.

BMP 3C: Stormwater Infrastructure Map

On 11.8.2023, SMCC reviewed its online stormwater infrastructure map and determined revisions were not necessary. There have been no changes to the college's stormwater infrastructure.

BMP 3D: Dry Weather Inspections

During PY2, SMCC inspected each of its six outfalls. A summary table of inspection findings is located in the table below. For formatting purposes, several fields were omitted.

Inspection Date	Outfall ID	Temperature	Wind Present	3 Day Precipitation	Pipe Flow	Seepage Flow	Sediment	Structure Condition	Color	Odor	Water Clarity	Solids	Notes
9/7/2023	WB_12	77	Yes	0	None	None	Open	Good					In good order photo taken
9/7/2023	WB_11	77	Yes	0	None	Trickle	Open	Poor					Someone has cut down plants and left debris to block full view of pipe. Also some overgrowth will ask facilities to trim back. Photo taken
9/7/2023	BW_11	77	Yes	0	None	None	3/4 Full	Good					Tidal influence photo taken
9/7/2023	BW_10	77	Yes	0	None	None	Open	Good					Plastic rim continues to deteriorate few small stones inside. Photo taken
9/7/2023	BW_12	77	Yes	0	None	None	Open	Good					Photo taken
3/14/2024	WB_15	41	No	0	Steady	None	Open	Good	Clear	None			Flow as documented in prior reports. Photo taken

BMP 3E: Wet Weather Assessment

This goal must be achieved by September 30, 2027.

BMP 3F: Review of Allowable Non-Stormwater Discharges

On 10.11.2023. the EHS Coordinator reviewed campus activities and confirmed there have been no new significant contributors identified during PY2.

Non-Permit Required Activities Which Took Place During PY2

On January 19, 2024, the EH&S Coordinator walked the seawall and Willard Beach to inspect the state of our outfalls after the January 13th storm. Both areas saw erosion due to storm surge.

Willard Beach

- Outfall WB_15 was buried ¾ of the way by sand but did not appear to be damaged. The sand has since moved and the opening to this outfall is fully visible again. *Photo below*



- The status of Outfall WB_12 remains undetermined (damaged or intact) as of 6.30.2024. A large tree fell across the area during the storm, blocking access to the outfall. The college is assessing if/how this tree can be removed and more will be known in PY3. *Photo below*



- Outfall WB_11 saw significant soil erosion around the pipe. The storm did not appear to damage the pipe further as it was already rusted out along the bottom. The outfall

marker for this location was missing from the fence on the walkway above. The marker was located amongst the beach debris and reattached to the fence. *Photo below*



Seawall

The outfalls were not significantly impacted by the storm however the ground around the catch basins at the seawall eroded due to storm surge.

- Conditions at Outfall BW_11 had not changed. *Photo below*



- Conditions at Outfall BW_12 had not changed though larger rocks/debris has been pushed into the outfall pipe. *Photo below*



- Conditions at Outfall BW_15 had not changed. *Photo below*



MCM 4 - CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

SMCC must implement and enforce a program to minimize or eliminate pollutants in any stormwater runoff to the regulated small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more.

SMCC does not anticipate new development or redevelopment projects of this scale will occur during this permit cycle.

Below is a summary of how SMCC met MCM4 during PY2.

BMP 4A: Erosion and Sediment Control Procedure

The SMCC College Construction Site Stormwater Control Statement was written on 8.14.2023 to align internal erosion sediment control procedures with the City of South Portland's Regulation No 2. A copy of this statement is enclosed as Attachment 1.

BMP 4B: Erosion and Sediment Control Procedure

On 8.14.2023 the EHS Coordinator notified the Interim Dean of Administration, the Interim Facilities Manager and Interim President of the new South Portland Regulation No 2 for erosion sediment control and Inspection requirements on disturbed areas over 2,000 sqft. A copy of the notification is enclosed as Attachment 2.

BMP 4C: Procedures to Notify Construction Site Developers and Operators

There were no new development or redevelopment projects on campus during PY2.

During PY1, SMCC created the "[SMCC Contractor's Corner](#)" with links to relevant stormwater related procedures and policies. This portal is used to educate contractor who are bidding on jobs or working on campus.

BMP 4D: Construction Site Stormwater Recordkeeping

There were no new development or redevelopment projects on campus during PY2.

Effective 8.14.2023, SMCC will follow South Portland Regulation No 2 with regard to erosion control practices and inspections. This is documented in the college's Construction Site Stormwater Control Statement referenced above.

MCM 5 - POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

SMCC must implement and enforce a program to address post construction stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development that discharge into the MS4.

SMCC does not anticipate new development or redevelopment projects of this scale will occur during this permit cycle.

Below is a summary of how SMCC meet MCM5 during PY2.

BMP 5A: Required LID Techniques

The Southern Maine Community College Low Impact Development Statement is located in the college's PY1 Annual Report. Changes to this document were not required during PY2.

BMP 5B: Post Construction BMP Inspections

The post-construction BMP's on SMCC property were installed before July 1, 2008 and/or are under 1 acre in size. This permit requirement is not currently applicable.

SMCC will ensure that future/new post-construction stormwater BMP's installed after the date of this SWMP and which fall under the scope of MCM4 and MCM5, are inspected, managed, and documented following the requirements of this permit.

Non-Permit Required Activities Which Took Place During PY2

SMCC inspects the stormwater BMPs installed prior to July 1, 2008. Observations are listed below:

Date	Device/Area Inspected	Inspected By	Observations, Deficiencies and Recommended Corrective Actions	Action Taken
4/2/2024	Infiltration Basin- Hildreth Hall	Jen Otenti	WO# 2245424 to weedwack around rocks WO# 22454549 to clear off CB_5009	Completed 4.26.2024 Completed 5.2.2024
4/2/2024	Rain Garden- Spring Point Residence Hall	Jen Otenti	WO# 22454685 to remove large debris from garden and weedwack before new growth	Completed 4.12.24
4/2/2024	Infiltration Swale- Lot D	Jen Otenti	WO# 22454657 to remove large debris pile from center of swale as observed 7.2023	Completed 5.22.2024
4/2/2024	Infiltration Swales- Lot B	Jen Otenti	WO# 22454606 to clear debris from around CB_6883	Completed 4/10/24
5.21.2024	StormTreat System	Otenti & Kelley	Observed roots growing from one of the ports.	Vendor appears to be out of business. Email sent on 5.24.24 received no response and emails sent on 6.21.24 and 6.24.24 bounced. Unit is slated to be vacuumed in PY3
5.16.2024	Pickett St. StormTECH Treatment System	Chris Baldwin CCSWCD	None	No actions required. Report will be sent to City of South Portland

MCM 6 - POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR FACILITY OPERATIONS

The objective of this program is to mitigate or eliminate pollutant runoff from state and federal facility roads, other paved surfaces, infrastructure and facility operations on property that is owned or managed by the permittee.

In 2014, the DEP determined that SMCC did not require a stormwater pollution prevention plan (SWPPP). Our operations have not changed. SMCC will continue to operate via a written Stormwater O&M Plan.

Below is a summary of how SMCC meet MCM6 during PY2.

BMP 6A: Stormwater O&M Plan

SMCC operates via a written Stormwater O&M plan which was revised in September 2022 to align with the MS4 Permit and the Modified SWMP. No changes were required during PY2.

BMP 6B: Stormwater O&M Plan Training

During PY2, SMCC Stormwater O&M training was conducted on-line. Between December 4, 2023 and January 30, 2024, 9 (out of 24) Facilities staff completed the Winter 2023 SMCC Stormwater Pollution Prevention Training which was a 25 minute video designed to explain staff's role and responsibilities under the SMCC MS4 Permit and our Stormwater O&M Plan. A copy of the powerpoint portion of the training presentation is attached as Appendix A.

Due to poor participation in the online training in PY2, in-person training will resume PY3.

BMP 6C: Annual Street Sweeping

For PY2, a property maintenance company was contracted to sweep SMCC owned paved streets and parking lots. The contracted vendor used a vacuum truck with water for dust control to sweep roads and parking areas. The work was performed over two non-consecutive days in May 2024 and resulted in three loads of sand and debris being collected from the property

BMP 6D: Catch Basin Management

In PY 2, 38 drains were inspected and cleaned. Pet waste bags were not observed in the catch basins. All basins were found to be in good condition and no maintenance necessary. Data from this task is shown in the table below.

ID #	Location Information	Sump Depth	Sediment Depth	Is Sediment $\geq 50\%$ of Sump?	List Debris or Pollution Present
CB-7200	Seawall Center	24	12 - 18 inches	Yes	Excessive Sediment
CB-7201	Seawall Center Ocean	24	0 - 6 inches	No	None
CB-5001	Lighthouse Building MCCS	24	12 - 18 inches	Yes	Excessive Sediment
CB-7199	Lighthouse Building Seawall	24	12 - 18 inches	Yes	Excessive Sediment
CB-7202	Seawall MMFish	24	6- 12 inches	No	None
CB-3310	Parking Lot C/Slocum Drive -inlet	28	0 - 6 inches	No	None
CB-4996	Slocum Dr- Parking lot SS	48	0 - 6 inches	No	None

CB-4997	Adams Street- Hague	24	0 - 6 inches	No	None
CB-4998	Adams Street- Horticulture	24	0 - 6 inches	No	None
CB-4999	Adams Street- Casco Baykeeper	24	0 - 6 inches	No	None
CB-5000	Slocum Dr- Horticulture	24	0 - 6 inches	No	None
CB-5982	Adams Street- Ebcot	24	0 - 6 inches	No	None
OT-6120	Horticulture- outlet control	No	6- 12 inches	No	None
CB-2544	Parking Lot A- behind bar	24	0 - 6 inches	No	None
CB-5067	Parking Lot A- east/middle	24	6- 12 inches	No	None
CB-5068	Parking Lot A-Far south	28	12 - 18 inches	No	None
CB-7136	Pickett Parking lot (bar)	24	0 - 6 inches	No	None
CB-7137	Pickett Parking lot (broadway)	24	0 - 6 inches	No	None
DM-0271	Parking Lot A- drain in lot	24	0 - 6 inches	No	None
DM-6470	Pickett Parking lot (street facing front right)	36	0 - 6 inches	No	None
DM-6471	Pickett Parking lot (street facing front center)	36	6- 12 inches	No	None
DM-6472	Pickett Parking lot (street facing front left)	36	0 - 6 inches	No	None
CB-9999	Sodexo Dinning Hall	18	6- 12 inches	Yes	Excessive Sediment
CB-0827	Parking Lot B- swale inlet	48	0 - 6 inches	No	None
CB-0828	Parking Lot B-McKernan	24	6- 12 inches	No	None
CB-1341	Parking Lot M- CSEC	24	6- 12 inches	No	None
CB-5002	Bunker Lane- yard	36	0 - 6 inches	No	None
CB-5003	Bunker Lane	Invert	6- 12 inches	No	None
CB-5005	Bunker Lane	Invert	0 - 6 inches	No	None
CB-6887	McKernan Entry	24	0 - 6 inches	No	None

DM-4812	CSEC WB11 Parking Lot Center	Invert	0 - 6 inches	No	None
CB-5007	Shoreway Ln- Corner Lot CC	24	6- 12 inches	No	None
CB-5008	Shoreway Ln- Hildreth	24	6- 12 inches	No	None
CB-5009	Shoreway Ln-	24	6- 12 inches	No	None
CB-5010	Shoreway Ln- infiltration basin	24	6- 12 inches	No	None
CB-5011	Shoreway Ln- In grass at light pole	24	6- 12 inches	No	None
CB-5107	Campus Center Dr- at sign post by café	18	6- 12 inches	No	None
CB-5102	Cates Sump	No	6- 12 inches	No	None

Excess accumulation of sediment is greater than or equal to 50% of the sump filled. Drains determined to have excess sediment are shown in the table below and will be cleaned following the stipulations of BMP 6D Measurable Goal 2 within the college's SWMP.

ID #	Location Information	PY1	PY2	PY3	PY4	PY5
CB-5001	Lighthouse Building M CCS	Cleaned	Excess Sediment			
CB-5107	Campus Center Dr- at sign post by café	Excess Sediment	Cleaned			
CB-7199	Lighthouse Building Seawall	Excess Sediment	Excess Sediment			
CB-7200	Seawall Center	Cleaned	Excess Sediment			
CB-9999	Sodexo Dinning Hall	Excess Sediment	Excess Sediment			

BMP 6E: Stormwater Structure Repairs

SMCC will evaluate and implement a schedule for repairing or upgrading the conveyances, structures and outfalls under SMCC's jurisdiction in accordance with the necessity of needed repairs or maintenance. Repairs did not occur during PY2.

Non-Permit Required Activities Which Took Place During PY2

The following additional stormwater related items were addressed on campus:

- 7.7.2023 SMCC Security Student Officers and EHS hosted a campus trash pick-up.

Security Office Campus Clean Up

SMCC takes pride in keeping its campus clean.

We're proud of members of our Security Office, who recently held a campus cleaning session, spending the afternoon cleaning up campus, Willard Beach and areas around the Bunker and Fort.



- 9.18.2023 SMCC hosted 50 people from the National Association of Conservation Districts for an Urban MS4 Stormwater Tour sponsored by the by Maine Association of Conservation Districts
- 9.19.2023 EH&S Coordinator provided SPCC Plan and Stormwater Permit Training to the new Interim Dean of Administration and the Interim Facilities Manager
- 1.26.2024 EH&S Coordinator attended Wisconsin Salt Wise presentation (online) entitled Winter Ops that Reduce Salt Use and shared findings with Facilities
- 3.26.2024 EH&S Coordinator provided SPCC Plan and Stormwater Permit Training to the new Facilities Manager. Explained their obligations, role/responsibilities under the MS4 Permit
- 5.30.2024 EH&S Coordinator earned a Green Infrastructure Champion Certificate from Rutgers
- Between July 1, 2023 and June 30, 2024, 112 new hire employees (including student workers) completed the online awareness course "SMCC Campus Stormwater Pollution Prevention for Staff"

Duly Authorized Representatives

The following positions are deemed duly authorized representatives with the authority to sign and certify documents under the current permit:

- EH&S Coordinator
- Director of Human Resources
- Vice President of Operations

Permit Year 2 MS4 Annual Report Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Suzanne Bentley, VP of Operations
Signature & Title

9/5/24
Date

ATTACHMENT 1

Southern Maine Community College Construction Site Stormwater Control Statement

Effective August 2023, Southern Maine Community College (SMCC) will require its contractors to follow the Erosion Sediment Control and Inspection Procedures documented in the City of South Portland (City) revised Planning Board Regulation #2 which requires sets Erosion and Sediment Control Standards for construction activity which results in 2,000 square feet (or more) of disturbed area as defined in the City's Code of Ordinances, Chapter 27, Section 27-201..

Contractors will be responsible for the creation, approval and implementation of an Erosion and Sedimentation Control (ESC) Plan where required by Regulation #2 and will be held accountable by SMCC and the City for the timely performance of all tasks within the ESC including, but not limited to, those written in Appendix 1 Section A.2 "Inspection, Maintenance and Corrective Action by Applicant On-Site Personnel During Construction" and Section A.3 "Housekeeping Requirements."



ATTACHMENT 2

Jennifer Otenti <jotenti@smccme.edu>

Revised South Portland Erosion Control Ordinance For Construction

1 message

Jennifer Otenti <jotenti@smccme.edu>

Mon, Aug 14, 2023 at 12:47 PM

To: Joseph Manhardt <jmanhardt@smccme.edu>, Andrew Napoli <anapoli@smccme.edu>

Cc: Tiffanie Bentley <tbentley@smccme.edu>

Hello Jay and Andrew,

Under the new Municipal and Federal/State MS4 Permit, permittees must enact an ordinance or other procedure to meet specific Erosion Sediment Control (ESC) practices and inspection/maintenance activities required by the Maine DEP. SMCC will meet this permit requirement by adhering to the recently (8/9/23) revised South Portland Planning Board Regulation No. 2.

Regulation No. 2 now contains ESC requirements and an inspection schedule that is consistent with the new MS4 Permit. South Portland has increased the threshold for requiring an erosion and sediment control plan from 1,000 sf of disturbed area, to 2,000 sf of disturbance. Contractors will be responsible for the creation, approval and implementation of an Erosion and Sedimentation Control (ESC) Plan where required by Regulation #2 and SMCC & South Portland will hold them accountable for the timely performance of all tasks within the ESC including, but not limited to those written in Appendix 1 Section A.2 "Inspection, Maintenance and Corrective Action by Applicant On-Site Personnel During Construction" and Section A.3 "Housekeeping Requirements." For your reference, I've attached Regulation No 2. and a summary of changes written by the City Engineer to the Planning Board.

With the new Stormwater Permit, there are new construction obligations required of our construction contractors. I've done my best to summarize and consolidate the requirements into the attached "Contractor's Corner" which can be shared with any vendor working on the South Portland campus or placed into bid documents when/if construction work is to be scheduled. This document is also on the Environmental Health and Safety portal of the mysmccme.edu website which is accessible from any computer.

Please let me know if you have any questions and I'll do my best to help you get answers.

Thank you,

Jen Otenti
207.741.5932

PS. The [City's definition of Disturbed Area](#) is: The area of the lot or parcel that is stripped, graded, grubbed, filled, or excavated at any time. Any area that has its vegetation removed is considered as disturbed area even if the area is revegetated; however the cutting of trees or other plant material, without grubbing, stump removal, or disturbance or exposure of soil, does not create disturbed area.

Any area of the lot or parcel that was previously developed or improved that is altered or reconstructed in a manner that:

- (1) changes the topography of the lot (alters the original surface elevations or line and grade), or
- (2) that alters the drainage pattern of the lot, or
- (3) that changes the purpose or use of the parcel or a portion thereof (for example, constructing a building on a previously paved parking lot), is considered as disturbed area.

A change in the occupancy of an existing building or structure, or the paving of impervious gravel surfaces, while maintaining the original topography (line and grade), hydraulic capacity, and purpose of the facility, does not create disturbed area.

3 attachments



8.11.23 Contractor Corner MS4 Permit Requirements.pdf

130K



MEMO - Eng. Division Manager - Planning Board Regulation #2.pdf

560K



new Planning Board Reg 2_08.09.2023.pdf

928K

Stormwater Pollution Prevention

Facilities role at Southern Maine Community College

A blue starburst graphic with a purple outline, containing the text 'Winter 2023 Edition' in black.

**Winter
2023
Edition**

What is Stormwater?

- Stormwater is rain or snow melt that runs over impervious surfaces such as streets, parking lots, driveways, and roof tops.
- All properties with impervious surfaces generate stormwater runoff.



What is Stormwater Pollution?

- Stormwater pollution is all of the chemicals, dirt, trash, grass clippings, leaves and pet waste which is picked up by stormwater and carried into storm drains and the Casco Bay as rain or snowmelt travels



What is Stormwater Pollution?

- Stormwater pollution is all of the chemicals, dirt, trash, grass clippings, leaves, and other debris which is picked up by stormwater runoff from streets, lawns, and other areas and then carried to the water body (e.g., Casco Bay as rainwater runs down the street).

Is stormwater pollution present in either of these photos?



What is Stormwater Pollution?

Yes, both photos show stormwater pollution

- Below Left: Sediment continuously washes out after a heavy rain on Campus Center Drive and flows into a nearby storm drain
- Below Right: Right is sawdust observed on Slocum Drive.

Location of storm drain



Examples of Stormwater Pollution on Campus

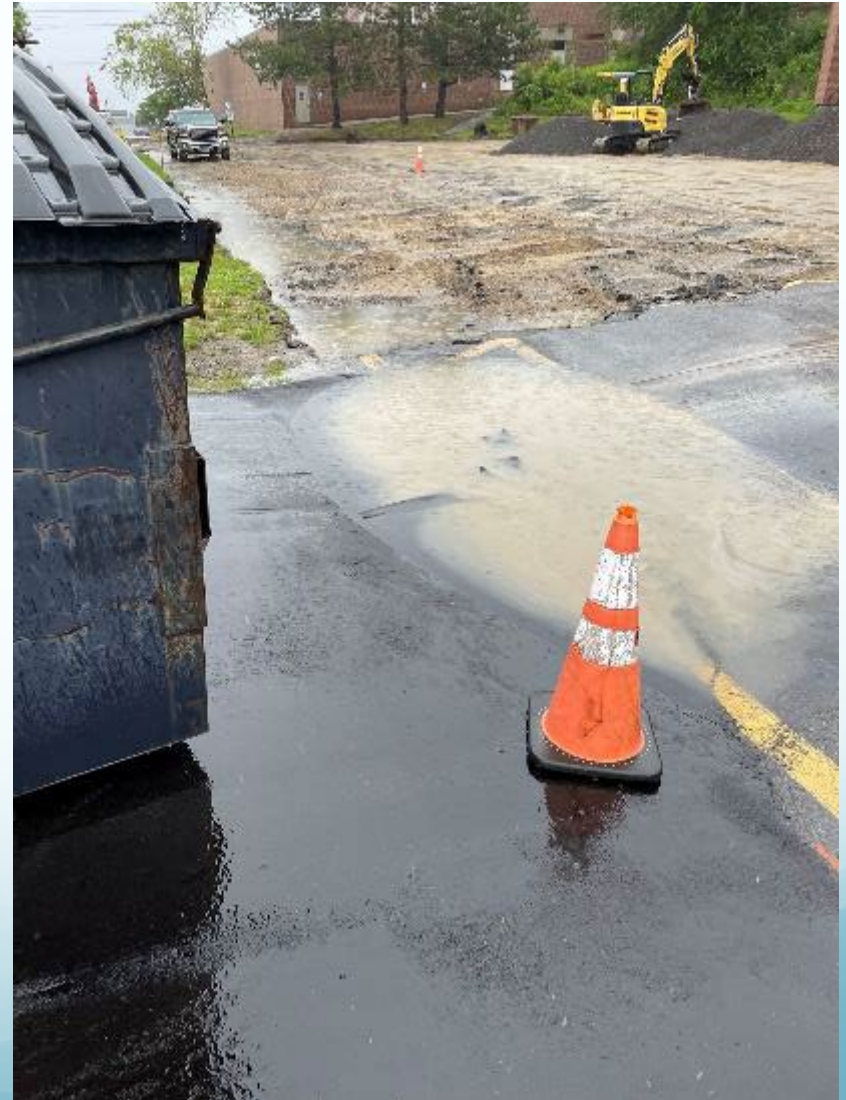
- Road salt
- Mop or rinse water
- General trash
- Leaking dumpsters
- Paint or chemicals including gasoline and oil
- Organic materials such as grass clippings, mulch, loose soil or dirt and leaves



Grass clippings frequently wash down into storm drains on campus. Please remember to mow so that grass clippings go back into the grass wherever possible.

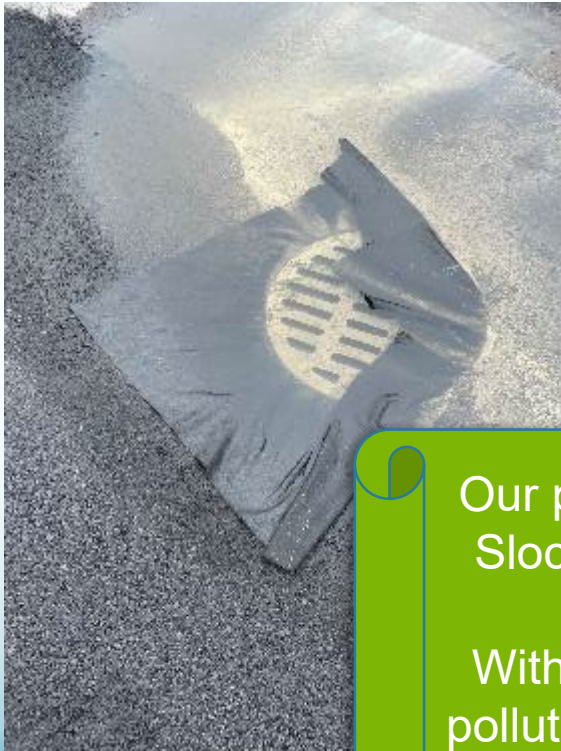
Why is Stormwater Pollution a Problem?

- Stormwater is **not** filtered or treated before it flows into the Casco Bay.



Why is Stormwater Pollution a Problem?

- Stormwater is **not** filtered or treated before it flows into the Casco Bay.



Our paving vendor installed sediment catchers on Slocum Drive prior to digging up the old asphalt.

Without the sediment catchers in place, all of this polluted stormwater would have flowed out into the Casco Bay.



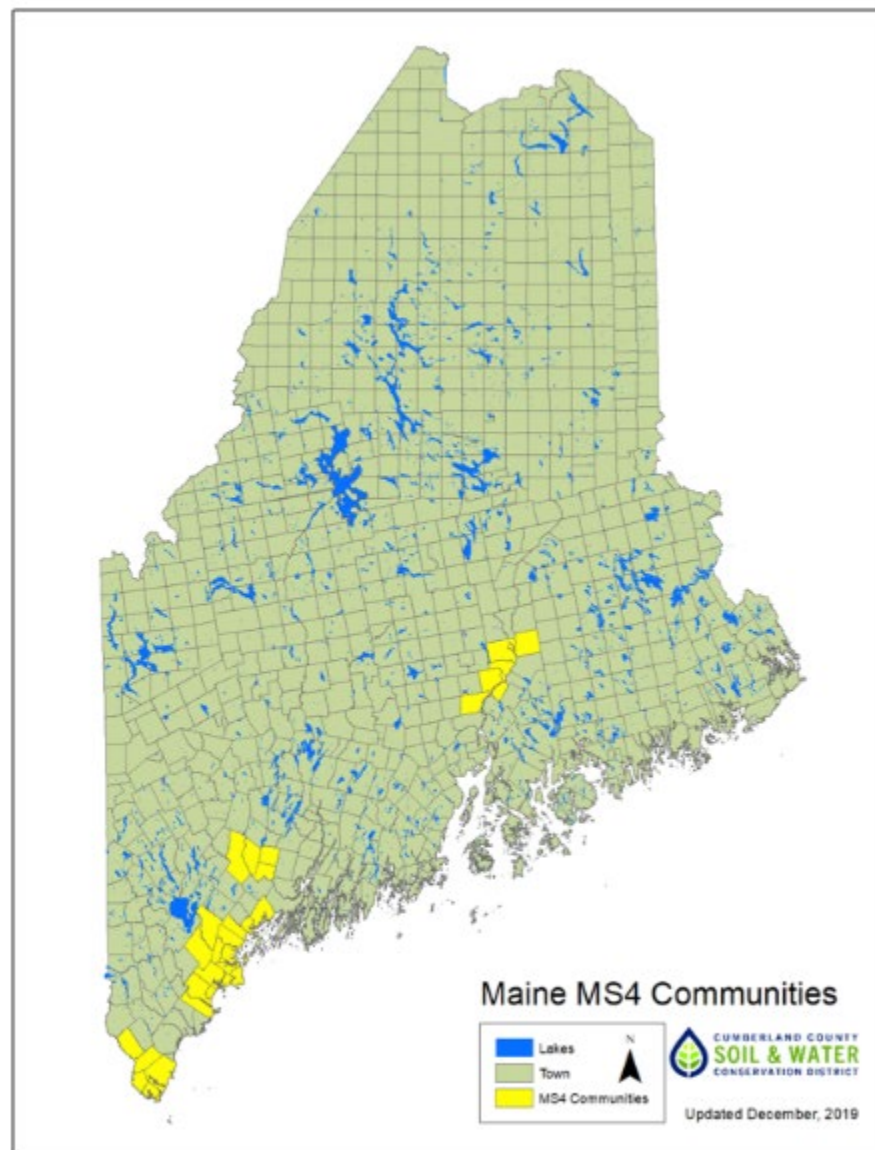
Who is the solution to
stormwater pollution?



YOU are the solution to
stormwater pollution!

The MS4 Permit

- SMCC operates under a government issued MS4 permit to discharge stormwater to the Casco Bay
- MS4 stands for
 - Municipal Separate Storm Sewer Systems
- SMCC is one of 11 federal or state owned entities governed by a MS4 Stormwater Permit. Other locations include:
 - Eastern Maine Community College
 - Dorothea Dix Psychiatric Center



SMCC's Stormwater Infrastructure

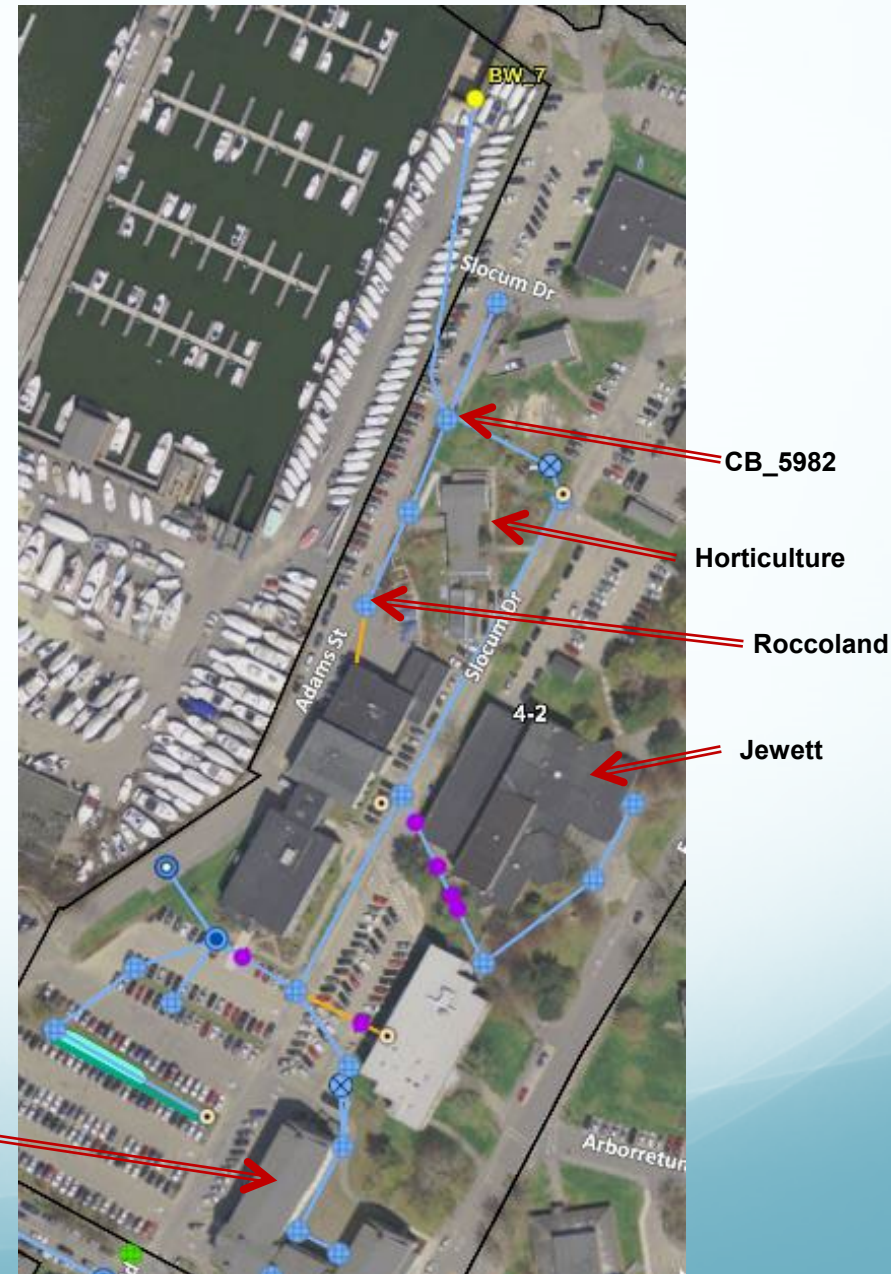
- 70+ storm drains on the South Portland campus
- 6 outfalls under SMCC's control
 - 3 outfalls at the seawall
 - 3 outfalls on Willard Beach



What is CB_5982?

- Catch Basin CB_5982 is the **last** storm drain on SMCC campus before stormwater flows offsite to Outfall BW_7
- Water and pollution entering any storm drain on the following roadways will flow down to CB_5982
 - Fort Road
 - Slocum Dr.
 - Adams St.
- Outfall BW_7 belongs to the Marina who must be notified of any spills which may discharge to their property

Each blue circle on the map at the right represents one storm drain.
The blue lines show the piping which connects the drains



Non-stormwater discharges

- Only stormwater can be discharged into the storm drain system under our MS4 Permit



SMCC Non-stormwater Discharge Procedure

It is Southern Maine Community College's procedure that discharges to storm drains and other conveyances of the college stormwater collection system are not permitted or to be minimized depending upon the nature of the potential discharge.

Non permitted potential discharges include but are not limited to the following:

- Leakage from motor vehicles, other than *de minimus* drippage;
- Leakage from petroleum storage tanks;
- Dumping of any kind of grease, chemicals, cleaning products, solvents, and similar items;
- Dumping of solid and hazardous wastes;
- Filter rinses;
- Wash water of any kind.

Discharges to be minimized include runoff containing road sand and salt used to treat campus-owned roadways and parking lots during the winter. This procedure applies as well to discharges to campus ditches, drains, and marine waters.

Stormwater O&M Plan

- The Stormwater Operation & Maintenance Plan:
 - Required by our MS4 Permit
 - Identifies activities which create stormwater pollution
 - Includes best management practices (BMPs) to minimize stormwater pollution from identified activities on campus
 - Applies to staff **and** contractors who perform tasks with the potential to create stormwater pollutants
- The O&M Plan is located on the internet, posted at Facilities and available from the EH&S Coordinator

Stormwater Operations & Maintenance Plan

	POTENTIAL STORMWATER POLLUTANTS												
Operations	Fats	Fuel	Oils	Greases	Fertilizer pesticides	General Trash	Sediment & Debris	Mop or Waste Water	Salt & Deicers	Solvents	Spills	Chlorinated Water	
Cutting, Grinding, Drilling, Sawing and All Paving							x	x			x		
Deicing, Snow Removal, Salt Shed Management									x				
Food Services	x		x	x		x					x		
Hydrant Line Flushing							x					x	
Landscaping Activities					x		x						
Outdoor Chemical Storage and Use		x									x		
Rubbish Storage						x					x		
Vehicles and Equipment: Washing, Storage, Fueling		x	x	x				x		x	x		

General Best Management Practices

- Maintain good housekeeping
 - Dispose of all dirty water into a sink or drain connected to the sewer
 - Do not pour dirty water on the ground outside or into a storm drain
 - Maintain each dumpster so the area around it is free of waste
 - Close dumpster lids/doors after putting waste inside
 - Report signs of a damaged or leaking dumpster to your supervisor
- Don't rinse dirt, oil, chemicals or grease onto the pavement

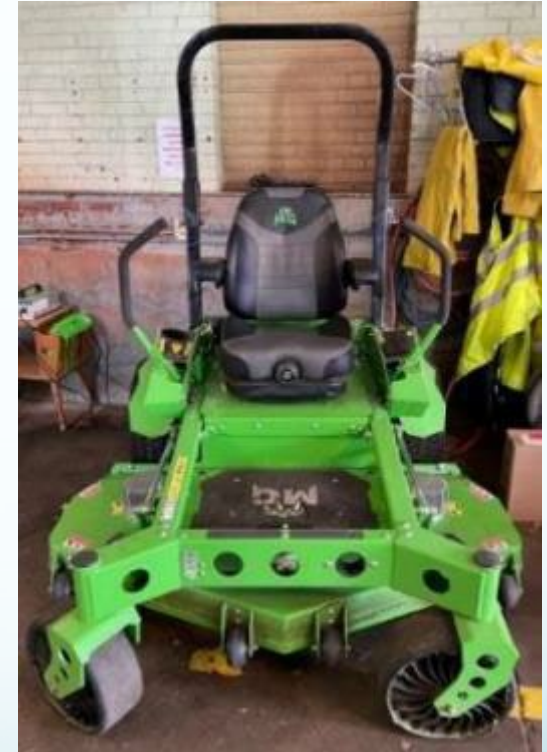
Salt Shed

- Keep up the good work! Please continue following our salt shed housekeeping procedures



Mowing & Weed wacking

- When mowing or weed wacking use a pattern which will put the grass clippings back into the grass.
- Do not let the mower spew grass clippings onto the pavement.
- If grass clippings ends up on the pavement, sweep or blow them back into the grass OR collect the clippings and place them into the dumpster.



Mowing & Weed wacking



Howie is
demonstrating
good grass
cutting technique!

Landscaping



- When reseeding bare areas, apply sediment socks around the perimeter of the work OR cover the area with landscape straw
- The goal is to keep dirt inside the work area. Once dirt has reached the storm drain there is no easy way to put it back.



Stockpile Management

- Cover stockpiles of mulch and dirt
- Sweep or maintain the area to keep dirt and debris from becoming stormwater pollution



Cutting, Grinding, Drilling, and Sawing

Applies to tasks involving wet sawing, grinding, cutting, drilling, or paving of brick, stone, asphalt, concrete and other hard surfaces.

- Do not allow wet sawing, grinding, cutting or drilling wastewater to enter storm drains without first being filtered
- Do not leave wastewater to be washed away by rain or left to dry



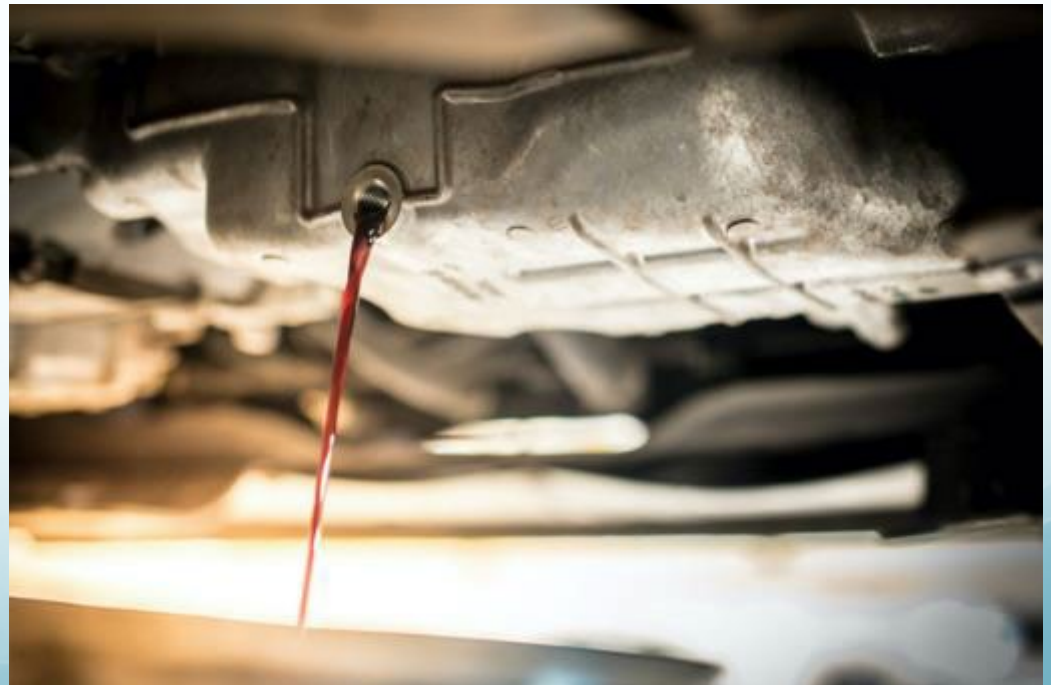
Paving

- Prior to the start of any paving activity, an in-drain sediment catcher will be installed in each bar or grate style storm drain or catch basin within the work zone.
- All loose paving material and debris will be swept from the vicinity of storm drains with solid lids and disposed in a dumpster



Vehicle & Equipment Maintenance

- It is SMCC policy that fleet vehicles are taken off site for repair and maintenance
- Vehicles shall be inspected regularly for leaks & hazards



Vehicle & Equipment Maintenance

- Routine maintenance of power equipment
 - Follow manufacturer instructions
 - Change fluids indoors using a drip pan, spigot & funnel as needed
 - Keep spill materials on hand while maintenance is performed



Vehicle & Equipment Fueling

- Vehicle and Equipment Fueling
 - Fuel carefully
 - Clean all spills and drips immediately
 - ★ Fuel on a paved area
 - Don't "Top Off" fuel tanks
 - Don't fuel near a storm drain
 - Dry mop when cleaning the fueling area floor



Vehicle & Equipment Washing vs. Rinsing

- SMCC policy is to **wash** all fleet vehicles and equipment at a commercial car wash facility. Commercial carwashes collect dirty water and dispose of it properly.
 - **Washing** involves detergents and removes dirt, sediment, oil, paint, grease and other pollutants from a vehicle or equipment
- IF a vehicle or piece of equipment is **rinsed off**, it shall be done in a grassy area with no storm drains in the vicinity of the rinse site.
 - **Rinsing** does not involve the use of detergents, cleaners, or solvents

Vehicle & Equipment Rinsing



Remember: Equipment and vehicle rinsing will occur in a grassy area with no storm drains in the vicinity of the rinse site

This photo shows dried equipment rinse water observed at Roccoland.
What should be done here to prevent stormwater pollution?

Vehicle & Equipment Rinsing



After



Thank you for washing the salter and truck at the local car wash!
This is an excellent example of the Stormwater O&M Plan in action.

Vehicle & Equipment Storage

- Park vehicles and equipment in their designated areas
 - Avoid parking on the grass
- Do not park vehicles or equipment over storm drains
 - An example would be the storm drain between Health Science and Jewett



Stormwater Summary

- SMCC must comply with a state issued MS4 Permit
- There are simple ways to control stormwater pollution
- Follow the college's Stormwater O&M Plan
 - **Everyone knows their job and does it well**
 - Work smarter (and safer) not harder
 - A task may need a little reengineering or some out-of-the-box thinking
 - Talk to your supervisor or the EH&S Coordinator if you have an idea or want to brainstorm on a solution