

Municipality/Organization: [University of New Hampshire](#)

EPA NPDES Permit Number: [NHR042001](#)

MaDEP Transmittal Number: [N/A](#)

**Annual Report Number
& Reporting Period:** [No. 14: March 2017 – March 2018](#)

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

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Certification:

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.

Signature:



Printed Name: Matt O'Keefe

Title: Director of Energy & Utilities

Date: April 9, 2018

Part II. Self-Assessment

The University of New Hampshire has completed the required self-assessment and has determined to the best of our knowledge that our organization is in compliance with the various parts of our NPDES permit.

Part III. Summary of Minimum Control Measures

1) PUBLIC EDUCATION AND OUTREACH					
BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
1	Production and Distribution of Informational Publications	M. O’Keefe	Distribution to Faculty and Student Population; Evaluation of Public Comments	In progress - see bulleted item(s) below.	Continue creating and distributing informational resources.
<p>2017</p> <ul style="list-style-type: none"> The UNH Storm Water Management Plan brochure is distributed to new employees during the monthly UNH Human Resources – New Employee Orientation. https://www.unh.edu/sites/default/files/departments/facilities/Energy/unh_stormwater_brochure.pdf Updated the UNH Storm Water Management website to ensure all links are current and active. https://www.unh.edu/facilities/storm-water-management Achieved Highest Possible ranking for campus sustainability and released summary report publication. https://sustainableunh.unh.edu/sites/sustainableunh.unh.edu/files/media/si-stars-platinum-report-update.pdf <p>2016</p> <ul style="list-style-type: none"> The UNH Storm Water Management Plan brochure is distributed to new employees during the monthly UNH Human Resources – New Employee Orientation. Updated the UNH Storm Water Management website to ensure all links are current and active. 					

1) PUBLIC EDUCATION AND OUTREACH (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
2	Production and Distribution of Informational Video	M. O’Keefe	Completion of Video Post-Production; Scheduling of Public Viewing; and Notice of Availability to Requesting Organizations	In progress - see bulleted item(s) below.	Continue to provide electronic links to video movies.
<p>2017</p> <ul style="list-style-type: none"> • Stormwater Runoff, There is No Away: https://vimeo.com/103819372 • UNH-Protecting-Our-Water: https://vimeo.com/103819371 <p>2016</p> <ul style="list-style-type: none"> • No changes to content. New web address: https://vimeo.com/103819372; linked from https://www.unh.edu/facilities/storm-water-management 					

1) PUBLIC EDUCATION AND OUTREACH (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
3	Development of a Storm Water Program Link on the UNH Website	M. O’Keefe	Completion of Website Link	In progress - see bulleted item(s) below.	Continue updating the UNH Storm Water Management website with the latest storm water information available.
<p>2017</p> <ul style="list-style-type: none"> Continued maintenance and development of UNH Facilities stormwater web site https://www.unh.edu/facilities/storm-water-management Link to and regularly coordinate with UNH Stormwater Center (UNHSC) at: https://www.unh.edu/unhsc/ <p>2016</p> <ul style="list-style-type: none"> Continued maintenance and development of UNH Facilities stormwater web site https://www.unh.edu/facilities/storm-water-management 					

2) PUBLIC PARTICIPATION / INVOLVEMENT

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
4	Public Notification Meeting	M. O’Keefe	Holding of Public Meeting	In progress - see bulleted item(s) below.	Continue attending Seacoast Stormwater Coalition meetings and other public stormwater events.
<p>2017</p> <ul style="list-style-type: none"> UNH continues to participate in the monthly meetings with the New Hampshire Seacoast Storm Water Coalition. UNH participated in public forums and hearings related to the new draft MS4 permit for New Hampshire. <p>2016</p> <ul style="list-style-type: none"> UNH continues to participate in the monthly meetings with the New Hampshire Seacoast Storm Water Coalition. UNH participated in public forums and hearings related to the new draft MS4 permit for New Hampshire. 					

2) PUBLIC PARTICIPATION / INVOLVEMENT (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
5	Establishment of a Volunteer Committee	M. O’Keefe	Establishment of Committee; Semester Events	In progress - see bulleted item(s) below.	Continue campus community involvement through UNH EcoTaskForce
<p>2017</p> <ul style="list-style-type: none"> UNH EcoTaskForce, a volunteer group of students, faculty and staff, continue to meet regularly and address ecological sustainability issues, one of which is stormwater management and water quality. Current Year initiative to update Landscape Master Plan and associated stormwater management policies. 2004 Master plan can be found at: https://www.unh.edu/sites/www.unh.edu/files/departments/facilities/CMP/cmp_2004_final_landscape_master_plan.pdf <p>2016</p> <ul style="list-style-type: none"> UNH EcoTaskForce, a volunteer group of students, faculty and staff, continue to meet regularly and address ecological sustainability issues, one of which is stormwater management and water quality. 					

2) PUBLIC PARTICIPATION / INVOLVEMENT (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
6	Stenciling of Catch basins	M. O’Keefe	All CBs Stenciled	In progress - see bulleted item(s) below.	Review cost effectiveness of catch basin markers.
<p>2017</p> <ul style="list-style-type: none"> Looking to other communities BMP’s to determine future practice of labeling. Continues to be a discussion topic at Seacoast Stormwater Coalition meetings. Reviewing option to “stamp” messaging on pavement locations. Less than 25% of once stenciled catch basins still retain markers. <p>2016</p> <ul style="list-style-type: none"> Looking to other communities BMP’s to determine future practice of labeling. Continues to be a discussion topic at Seacoast Stormwater Coalition meetings. 					

3) ILLICIT DISCHARGE DETECTION AND ELIMINATION

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
7	Development of a Storm Sewer System Map	M. O’Keefe	Completion of Site Plan	In progress - see bulleted item(s) below.	Complete catchment ranking.
<p>2017 The entire stormwater and other underground utilities (including sanitary sewer) are mapped and inventoried in the campus GIS system, called uCAT. The system lists and tracks all stormwater assets providing O&M information, installation dates, flow directions, condition assessments, intersections with other utility systems and networks for responding to IDDE events.</p> <p>2016 UNH GIS updates the storm water dataset whenever a significant change has occurred on campus (i.e. the completion of a major construction project). If there are several major construction projects going on simultaneously, the system will be updated annually as soon as all projects have been completed. Most areas of campus remained unchanged. Catchments identification is complete and current.</p>					

3) ILLICIT DISCHARGE DETECTION AND ELIMINATION (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
8	Development of Policy Prohibiting Illicit Discharges	M. O’Keefe	Completion and Implementation of Policy	In progress - see bulleted item(s) below.	Review and update the Storm Water Illicit Discharge Procedures as needed (include Town of Durham Storm Water Ordinance if approved).
<p>2017</p> <ul style="list-style-type: none"> • There were no changes to report this year. • The Town of Durham's Storm Water Ordinance was reviewed and approved in 2008. • UNH adopted and adheres to “Guidelines and Standard Operating Procedures for IDDE and Pollution Prevention/Good Housekeeping” published in November 2006. <p>2016</p> <ul style="list-style-type: none"> • There were no changes to report this year. 					

3) ILLICIT DISCHARGE DETECTION AND ELIMINATION (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
9	Development and Implementation of an IDDE Plan	M. O’Keefe	Completion and Implementation of Plan	In progress - see bulleted item(s) below.	Storm water sewer system drainage will be further evaluated for illicit connections by dry weather, smoke or fluorescent dye testing as needed.
<p>2017</p> <ul style="list-style-type: none"> Assessments for potential Illicit Discharges are ongoing; none were reported this year. <p>2016</p> <ul style="list-style-type: none"> Assessments for potential Illicit Discharges are ongoing; none were reported this year. 					

3) ILLICIT DISCHARGE DETECTION AND ELIMINATION (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
10	Provide Informational Materials to Employees and Public	M. O’Keefe	Inclusion in Informational Packet	See BMP-1 for progress.	Continue to provide informational material to campus community and general public.
<p>2017</p> <ul style="list-style-type: none"> The UNH Storm Water Management Plan brochure is distributed to new employees during the monthly UNH Human Resources – New Employee Orientation. https://www.unh.edu/sites/default/files/departments/facilities/Energy/unh_stormwater_brochure.pdf Updated the UNH Storm Water Management website to ensure all links are current and active. UNH Study published on nitrogen pollution: http://nhpr.org/post/unh-study-stronger-storms-make-it-harder-rivers-clean-pollution#stream/0 UNH Extension publishing best practice materials: https://extension.unh.edu/tags/landscaping-water-quality <p>2016</p> <ul style="list-style-type: none"> The UNH Storm Water Management Plan brochure is distributed to new employees during the monthly UNH Human Resources – New Employee Orientation. Updated the UNH Storm Water Management website to ensure all links are current and active. 					

3) ILLICIT DISCHARGE DETECTION AND ELIMINATION (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
11	Assessment of Non-Storm Water Discharges	M. O’Keefe	Identification and Elimination of Contributing Allowable NSWDS	In progress	Continue to assess and identify allowable NSWDS to the MS4 and assess for potential contaminant contribution.
<p>2017</p> <ul style="list-style-type: none"> The presence of allowable (as listed by US EPA) NSWDS to the UNH storm water sewer system continued to be assessed for potential contaminant contribution and none were documented. A list of allowable non-storm water discharges is included in the UNH Storm Water Illicit Discharge Procedures. UNH contributed to the research study looking at Nitrogen contamination in Great Bay (PREP) and contributing waterways (https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1002/2017WR020644). <p>2016</p> <ul style="list-style-type: none"> The presence of allowable (as listed by US EPA) NSWDS to the UNH storm water sewer system continued to be assessed for potential contaminant contribution and none were documented. A list of allowable non-storm water discharges is included in the UNH Storm Water Illicit Discharge Procedures. 					

4) CONSTRUCTION SITE RUNOFF CONTROL

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
12	Development of a Construction Site Erosion and Sediment Runoff Control Policy	B. Whitmore	Completion and Implementation of Policy	In progress - see bulleted item(s) below.	Review and update policy as needed.
<p>2017</p> <ul style="list-style-type: none"> UNH Construction and Renovation Standards specify practices related to construction site erosion and sediment runoff control. The standard was developed in conjunction with the UNH Stormwater Center to adapt the “Model Stormwater Standards for Coastal Watershed Communities”, published by the Southeast Watershed Alliance, to the UNH campus. Updates to the 2012 standard made to amend the standards in November 2017. A training on construction activities provided by UNH Stormwater Center to UNH Project Management Office that oversees all onsite construction. <p>2016</p> <ul style="list-style-type: none"> UNH Construction and Renovation Standards specify practices related to construction site erosion and sediment runoff control. The standard was developed in conjunction with the UNH Stormwater Center to adapt the “Model Stormwater Standards for Coastal Watershed Communities”, published by the Southeast Watershed Alliance, to the UNH campus. 					

4) CONSTRUCTION SITE RUNOFF CONTROL (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
13	Public Notification and Comment	B. Whitmore	Documentation and Follow-up	In progress - see bulleted item(s) below.	Review and update procedures as needed.
<p>2017</p> <ul style="list-style-type: none"> UNH Construction and Renovation Standards specify practices related to construction site erosion and sediment runoff control. The standard was developed in conjunction with the UNH Stormwater Center to adapt the “Model Stormwater Standards for Coastal Watershed Communities”, published by the Southeast Watershed Alliance, to the UNH campus. Updates to the 2012 standard made to amend the standards in November 2017. UNH standard review is performed by a campus committee on Planning, Design and Construction Guidelines to review and vet all updates and changes. All guidelines are public and used by design consultants for UNH projects. Work on additional recommendations to guidelines being performed as part of a campus Utility Master Plan update and will be shared with the public upon completion. A training on construction activities provided by UNH Stormwater Center to UNH Project Management Office that oversees all onsite construction. <p>2016</p> <ul style="list-style-type: none"> Nothing new to report this year. 					

4) CONSTRUCTION SITE RUNOFF CONTROL (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
14	On-Site Inspection and Enforcement	B. Whitmore	100% Compliance	No action required at this time.	Continue to implement on-site inspection and enforcement procedures for applicable construction projects.
	<p>2017</p> <ul style="list-style-type: none"> Representatives from outside contractors with construction SWPPPs in place for applicable construction projects at the UNH Campus conduct regular inspections of construction site to ensure compliance with the individual SWPPP. For projects disturbing less than the one acre requirement of a SWPPP, UNH still requires similar on-site inspection and enforcement for any construction activities that disturb 10,000 or more square feet. UNH Project Management ensures compliance with published design and construction guidelines. <p>2016</p> <ul style="list-style-type: none"> Representatives from outside contractors with construction SWPPPs in place for applicable construction projects at the UNH Campus conduct regular inspections of construction site to ensure compliance with the individual SWPPP. 				

5) POST-CONSTRUCTION RUNOFF CONTROL

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
15	Development of a Post-Construction Runoff Control Policy	B.Whitmore M. O’Keefe	Completion and Implementation of Policy; Annual Inspection and Review Schedule	In progress - see bulleted item(s) below.	Review and update procedures as needed.
<p>2017</p> <ul style="list-style-type: none"> Storm water treatment structures installed at UNH Campus during continuing construction projects have been, and continue to be, inventoried as they become operational in our campus GIS system. Regular Inspection and Maintenance are cataloged with each structure per original design intent via campus GIS system and/or facilities maintenance software for preventive maintenance. <p>2016</p> <ul style="list-style-type: none"> Storm water treatment structures installed at UNH Campus during continuing construction projects have been and continue to be inventoried as they become operational. 					

6) POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
16	Development of a Comprehensive Operations and Maintenance Plan	M. O’Keefe	Completion and Implementation of Plan	No action required at this time.	Continue development and implementation of COMP.
<p>2017</p> <ul style="list-style-type: none"> In the summer of 2017, UNH hired Hardigan Basin Cleaners to clean 252 catch basins. UNH in-house staff also cleaned 31 basins in remote hard-to-reach areas with a portable tow-behind vacuum machine for a total of 283 basins and approximately 45 yards of debris was removed from these structures. The UNH Grounds and Roads Department applied approximately 854.23 tons of salt and 97.79 tons of salt/sand mix to campus parking lots, roadways, sidewalks, etc. from October 2017 to April 2018. UNH hired Immaculate Power Sweeping to conduct street sweeping of the campus a total of four times, April, May, August, and October. Areas targeted included: parking lots, streets, pedestrian boulevards, etc. for sand, trash, cigarette filters, and other non-point sources of pollution and approximately 44 yards of material were picked up during these sweepings. <p>2016</p> <ul style="list-style-type: none"> In the summer of 2016, UNH hired Hardigan Basin Cleaners to clean 207 catch basins. UNH in-house staff also cleaned 50 basins in remote hard-to-reach areas with a portable tow-behind vacuum machine for a total of 257 basins and approximately 38 yards of debris was removed from these structures. The UNH Grounds and Roads Department applied approximately 673 tons of salt and 74 tons of salt/sand mix to campus parking lots, roadways, sidewalks, etc. from October 2016 to April 2017. UNH hired Immaculate Power Sweeping to conduct street sweeping of the campus a total of four times, April, May, August, and December. Areas targeted included: parking lots, streets, pedestrian boulevards, etc. for sand, trash, cigarette filters, and other non-point sources of pollution and approximately 51 yards of material were picked up during these sweepings. 					

6) POLLUTION PREVENTION / GOOD HOUSEKEEPING (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
17	Development of a Materials Management and Recycling Policy	M. O'Keefe	Completion and Implementation of Policy	No action required at this time.	Continue development and implementation of MMRP. Coordinate with the UNH Solid Waste Management Plan initiative.
<p>2017</p> <ul style="list-style-type: none"> UNH has implemented a recycling program with Waste Management. For Calendar Year 2017, UNH recycled 345.8 tons of single-stream materials. <p>2016</p> <ul style="list-style-type: none"> UNH has implemented a recycling program with Waste Management. For Calendar Year 2016, UNH recycled 323 tons of single-stream materials. 					

6) POLLUTION PREVENTION / GOOD HOUSEKEEPING (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
18	Facilities Employee Training Program	M. O’Keefe	Completion and Implementation of Program	No action required at this time.	Continue to develop outline for training program and identify employees who require training.
<p>2017</p> <ul style="list-style-type: none"> • All UNH Snow Removal staff have completed T2 Green SnowPro trainings. • 2 current Grounds employees as certified Roads Scholars. • Customized trainings, in accordance with the UNH Stormwater Center, for MS4 compliance and best practices have been presented to UNH Grounds and Roads and UNH Project Management staffs. • 2 Staff members are enrolled in newly created Stormwater Certificate program. <p>2016</p> <ul style="list-style-type: none"> • The UNH Storm Water Management Plan brochure is distributed to new employees during the UNH Human Resources – New Employee Orientation. <p>https://www.unh.edu/sites/default/files/departments/facilities/Energy/unh_stormwater_brochure.pdf</p>					

6) POLLUTION PREVENTION / GOOD HOUSEKEEPING (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
19	Community Outreach Program	M. O’Keefe	Completion and Implementation of Program	See BMP-1 : Storm Water Management Pamphlet.	Continue education efforts as outlined BMP-1 .
<p>2017</p> <ul style="list-style-type: none"> UNH GIS staff presented on stormwater mapping and IDDE response using water modeling. UNH Study published on nitrogen pollution: http://nhpr.org/post/unh-study-stronger-storms-make-it-harder-rivers-clean-pollution#stream/0 UNH Extension publishing best practice materials: https://extension.unh.edu/tags/landscaping-water-quality Achieved Highest Possible ranking for campus sustainability and released summary report publication. https://sustainableunh.unh.edu/sites/sustainableunh.unh.edu/files/media/si-stars-platinum-report-update.pdf <p>2016</p> <ul style="list-style-type: none"> Updated the UNH Storm Water Management website to ensure all links are current and active. https://www.unh.edu/facilities/storm-water-management 					

6) POLLUTION PREVENTION / GOOD HOUSEKEEPING (continued)

BMP ID	BMP	Responsible Person(s)	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Changes/Goals for Next Reporting Year
20	Community Participation Program	M. O’Keefe	Completion and Implementation of Program	See BMP-4 for current progress.	Continue participation efforts for surface water monitoring activities.
<p>2017</p> <ul style="list-style-type: none"> UNH continues to participate in the monthly meetings with the New Hampshire Seacoast Storm Water Coalition. UNH participated in public forums and hearings related to the new MS4 permit for New Hampshire. UNH contributed to the research study looking at Nitrogen contamination in Great Bay (PREP) and contributing waterways (https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1002/2017WR020644). UNH has co-funded 2 UNHSC BMP installations adjacent to parking lots in 2017. <p>2016</p> <ul style="list-style-type: none"> UNH continues to participate in the monthly meetings with the New Hampshire Seacoast Storm Water Coalition. UNH participated in public forums and hearings related to the new draft MS4 permit for New Hampshire. 					