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RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040 019

REPORTING PERIOD: YEAR 12
Jan 2015-Dec 2015

OPERATOR OF MS4

Name: The University of Rhode Island			
Mailing Address: Sherman Building; 60 Tootell Road			
City: Kingston	State: RI	Zip: 02881	Phone: (401) 874-5488
Contact Person: Jerome Sidio		Title: Director: Facilities Services	
		Email: jerrysidio@uri.edu	
Legal status (circle one):			
PRI - Private	PUB - Public	BPP - Public/Private	<input checked="" type="checkbox"/> STA - State
FED - Federal			
Other (please specify):			

OWNER OF MS4 (if different from OPERATOR)

Name: Same			
Mailing Address:			
City:	State:	Zip:	Phone: ()
Contact Person:		Title:	
		Email:	

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the 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, I certify that 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.

Print Name Jerome Sidio

Print Title Director of Facilities Services

Signature *Jerome Sidio* Date 2/3/16



**MINIMUM CONTROL MEASURE #1:
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

Responsible Party Contact Name: Andy Alcusky

Phone: (401) 874 2448 **Email:** aalcusky@uri.edu

IV.B.1.b.1	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.
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The University requires all staff employees to attend training sessions annually for the proper handling of contaminants and the proper disposal of contaminants. All employees are reminded that nothing can be disposed into the storm drainage system. These safety sessions and presentations are conducted by the URI Safety and Risk Dept. Messages to educate the community also continued in the school website. The RI NEMO continued to sponsor education programs for all communities of the state. The director and staff are members of the URI community and provide resources for all communities in developing their storm water pollution prevention program and maintaining their program.
The parties involved include the URI Utilities Dept., URI Safety and Risk Dept., and the RI NEMO Program.

IV.B.1.b.2	Use the space below to provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.
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The University continued its support with various student groups for campus cleanup activities such as Earth Day events. In what may appear as unrelated to stormwater pollution prevention, the University has entered into a contract for energy savings which includes a behavior change measure. One item discussed with all on-campus students is changing their behavior concerning trash and recycling materials. Any reduction of trash considerably helps the amount of pollution entering the storm water system. Some of the cleanup events occurred off campus as well as on campus. The RI NEMO continued to sponsor education programs for all communities of the state. The director and staff are members of the URI community and provide resources for all communities in developing their storm water pollution prevention program and maintaining their program.

PUBLIC EDUCATION AND OUTREACH cont'd

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	Target Pollutant(s)
<input checked="" type="checkbox"/> Construction Sites	TSS
<input checked="" type="checkbox"/> Pesticide and Fertilizer Application	Nitrogen/phosphorus
<input type="checkbox"/> General Stormwater Management Information	
<input type="checkbox"/> Pet Waste Management	
<input type="checkbox"/> Household Hazardous Waste Disposal	
<input checked="" type="checkbox"/> Recycling	Floatables
<input type="checkbox"/> Illicit Discharge Detection and Elimination	
<input type="checkbox"/> Riparian Corridor Protection/Restoration	
<input type="checkbox"/> Infrastructure Maintenance	
<input checked="" type="checkbox"/> Trash Management	Floatables
<input type="checkbox"/> Smart Growth	
<input type="checkbox"/> Vehicle Washing	
<input type="checkbox"/> Storm Drain Marking	
<input checked="" type="checkbox"/> Water Conservation	
<input type="checkbox"/> Green Infrastructure/Better Site Design/LID	
<input type="checkbox"/> Wetland Protection	
<input type="checkbox"/> Other:	
<input type="checkbox"/> None	

Specific audiences targeted during this reporting period:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Public Employees | <input checked="" type="checkbox"/> Contractors |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Developers |
| <input type="checkbox"/> Businesses | <input checked="" type="checkbox"/> General Public |
| <input type="checkbox"/> Restaurants | <input type="checkbox"/> Industries |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Agricultural |

Additional Measurable Goals and Activities

Please list all stormwater training attended by your staff during the 2015 calendar year and list the name(s) and municipal position of all staff who attended the training.

Trainings: Overview of Roadway Drainage, Geotextiles and Erosion Control; 6/25/15

Attending name of staff and title: Sheleen Clark Assistant Director Facilities (Lands and Grounds)

Attending name of staff and title: Andy Alcusky Project Manager Utilities Dept.



**MINIMUM CONTROL MEASURE #2:
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

Responsible Party Contact Name: Andy Alcusky

Phone: (401) 874 2448 Email: aalcusky@uri.edu

IV.B.2.b.2.ii Use the space below to describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.

Audiences targeted include the students living on campus especially the freshman students new to the campus. Others targeted include staff both educational as well as support staff. Activities implemented include the storm drain marking program by the students. Support staff is required to attend annual review sessions on the prohibition of illicit discharges into the storm drainage system and the proper handling and disposal of all materials. Other activities targeted for involvement include the campus wide cleanup to reduce floatables and Earth day activities. Responsible parties include the URI Utilities Dept. Lands and Ground Dept., the Trash and Recycling dept. and the URI Safety and Risk Dept.

Opportunities provided for public participation in implementation, development, evaluation, and improvement of the Stormwater Management Program (SWMP) Plan during this reporting period. Check all that apply:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Cleanup Events | <input type="checkbox"/> Storm Drain Markings |
| <input type="checkbox"/> Comments on SWMP Received | <input type="checkbox"/> Stakeholder Meetings |
| <input type="checkbox"/> Community Hotlines | <input type="checkbox"/> Volunteer Monitoring |
| <input type="checkbox"/> Community Meetings | <input checked="" type="checkbox"/> Plantings |
| <input type="checkbox"/> Other (describe) | |

Additional Measurable Goals and Activities

SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) *Note: attach copy of public notice

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If YES, Date of Public Notice: <u>2/18/16</u>
How was public notified: <input type="checkbox"/> List-Serve (Enter # of names in List: _____) <input checked="" type="checkbox"/> Newspaper Advertising <input type="checkbox"/> TV/Radio Notices <input type="checkbox"/> Other: Enter Web Page URL: _____	
Was public meeting held? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Where:
Date:	
Summary of public comments received: <u>None at this time</u>	
Planned responses or changes to the program: <u>None at this time</u>	



**MINIMUM CONTROL MEASURE #3:
ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

Responsible Party Contact Name: Andy Alcusky

Phone: (401) 874-2448 Email: aalcusky@uri.edu

IV.B.3.b.1:	<p>If the outfall map was not completed, use the space below to indicate reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.)</p> <p>Number of Outfalls Mapped: <u>89</u></p> <p>Percent Complete: <u>100%</u></p> <p>If 100% Complete, Provide Date of Completion: <u>11/2014</u></p>
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The outfall map was completed by the URI Utilities Dept. Outfall Location Tables have been completed and were included with the Year 5 report. The outfall map was updated in 2013 and was submitted to DEM as part of the 2013 report. The updated EXCEL tables will also be submitted (electronically) as part of this report. The Utilities Dept. used the original information from our consultant for the initial outfall map. In 2012 through 2014 the Utility Dept. expanded the list from field observations during inspections and review of plans. No additional outfalls were identified in 2015. There will be new outfalls identified in 2016 as a couple of construction projects are completed.

IV.B.3.b.2	<p>Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2015 calendar year.</p>
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The University Utilities Dept chose to implement the tagging of outfalls under the IDDE minimum measure and tagged the outfalls in 2008. URI did not have any additions to the outfall list in 2015.

IV.B.3.b.3	<p>Use the space below to provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.</p>
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The Kingston Campus drainage system and its records were updated during 2015. Some of the updates are a result of new construction work on campus. Areas of new construction included the new Chemistry Building, the Butterfield Dining Hall modifications, electrical Sub-Station 1&2 and the new fraternity house (Sigma Chi). Other catch basins and drainage components were added to control flooding and erosion issues in a number of areas such as north of the steam plant, north of Coddington Hall and west of Quinn Hall. As noted in previous years more catch basins were discovered as drainage lines are traced and structures are uncovered. As a result of the construction activity and field inspection an additional 20 catch basins and 40 drain manholes were added to our inventory and 17 catch basins and 7 DMH's were removed from the inventory list. The entire drainage system is now recorded in GIS which allows for easier updates in the future. The changes in the quantities were a result of further mapping of the system, inspection of the system and updating changes due to recent construction. In addition to changes found during the field inspections, URI will continue to update the drainage system records as they receive the as-built drawings of the projects completed during the past calendar year. URI's Capital Projects Group provides a status of all projects on campus to the Facilities Dept. and as projects are closed out, the URI Utilities Dept. will then update the drainage records using the as-built drawings as well as any new info discovered during the yearly inspections.

IV.B.3.b.4	<p>Indicate if the IDDE ordinance was not developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.</p> <p>Date of Adoption: _____</p> <p>If the Ordinance was amended in 2015, please indicate why changes were necessary.</p>
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ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

The University of Rhode Island has not developed this ordinance in the 2015 calendar year. The University owns the entire subject area and controls all activities on their property. The University is a state agency that has policies in place to ensure proper compliance to prohibit and enforce illicit discharges to the MS4. Policy enforcement is through a combination of inspections by Safety and Risk Management and Facilities Services Departments. The SR&M department receives, responds, investigates and files all incidents involving hazmat and other illicit discharge activities that might occur on campus. Investigations, corrective actions and enforcement activities are monitored and implemented through this office. We also conduct annual inspections throughout the campus for potential illicit discharges into the storm and waste water systems. We have developed a Spill Prevention and Containment Plan as required by the EPA that is designed to reduce the potential for illicit discharges into the sanitary and storm water systems.

IV.B.3.b.5.ii, iii, iv, & v	Use the space below to provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.
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All complaints (of any nature) are referred to the URI Control Center. The Control Center will log each call and then notify the appropriate department responsible for the complaint. If the complaint is relative to an illicit discharge to the storm system, the URI Utilities Dept will be responsible to respond to the complaint. The Utilities Dept. will evaluate the complaint, trace the origin of the illicit discharge, ensure that the illicit discharge is stopped immediately and assess if other procedures need to be implemented.

IV.B.3.b.5.vi	Use the space below to provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed. Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: <u>1241</u> Percent Complete: <u>98</u> % Date of Completion: <u>12/18/15</u>
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During 2015, the URI Utilities Dept. inspected all catch basins that were accessible throughout the Kingston Campus for illicit connections and non-storm water discharges. Approximately 2% of the drainage structures were not accessible (such as under platforms or large dumpsters) or under construction and were not inspected. The inspections were performed in conjunction with the surveying of the drainage system for inventory of the system and noting condition of the structures. Inspection of the catch basins also help determined which structures were in need of cleaning. URI recorded the inspection results in an Excel database in 2015. A total of 29 Work orders were issued as a result of these inspections. In most cases, work orders consisted of catch basins requiring a re-build or broken grates. URI will continue to inspect 100% of the accessible catch basins in 2016.

IV.B.3.b.5.vii	If dry weather surveys including field screening for non-stormwater flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. The results of the dry weather survey investigations must be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM-provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sample results for those outfalls with flow. The EXCEL Tables <u>must</u> include a report of <u>all outfalls</u> and indicate the presence or absence of dry weather discharges. Number of Outfalls Surveyed once: <u>89</u> Number of Outfalls Surveyed twice: <u>89</u> Percent Complete: <u>100</u> % Date of Completion: <u>07/07/2015</u>
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The University conducted two dry weather surveys in 2015. The University Utilities Dept. performed dry weather surveys on April 21, 2015 and July 7, 2015. In the first survey, flow was noted at twenty-three of the outfall sites. The origin of the flow in all cases was traced back to ground water or natural flow from wet areas. Flow was observed at five of the outfalls during the July 7, 2015 survey. The results of the surveys are shown in the Year 12 Report. The URI Utilities Dept conducted the surveys and the testing was performed by ESS Labs.

IV.B.3.b.7	Use the space below to provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
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During 2015 the University did not have any issues with illicit discharges associated with other MS4's. The only interconnections with another MS4 are two drainage lines that connect 12 catch basins from the South Kingston MS4 to the URI drainage system. Since there are rather limited interconnections, the University has not encountered any illicit discharges from other MS4's to date.

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.8	Use the space below to provide a description of efforts and actions taken for the referral to RIDEM of non-stormwater discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
<p>The University identified one new unauthorized non-storm water discharges during 2015. In Woodward Hall a sump pump in the mechanical room was found to be discharging into the storm drain system. A work order was issued and the sump pump discharge was re-directed into the sanitary system. One illicit discharge has not been resolved to date. In the Tootell Gym mechanical room, the sump pump discharges into Ellery Pond. The overflow from the pool can flow to this sump. Plans are being made to re-direct the sump pump discharge into the sanitary sewer system in 2016. The work to re-direct the sump pump discharge from the sump in Tootell could not be done in the building and is rather complicated and requires a significant amount of re-piping on the exterior of the building. A consulting engineer Gordon R Archibald, is currently preparing plans to re-direct this discharge into the sanitary system.</p>	
IV.B.3.b.9	Use the space below to provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-stormwater discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
<p>All of the University's Facility Services personnel must attend annual training on identifying the materials that the employees are exposed, spill prevention plans, spill control procedures and the proper means of material disposal. The University's Safety & Risk Dept. conducts numerous trainings throughout the year in proper disposal of wastes and especially hazardous wastes. All employees working with the waste stream are required to attend re-fresher courses. The Safety and Risk Dept. added another module to their training program to reinforce the fact that dumping anything down a storm drain is a violation of the law and employees could face disciplinary action if they ignore this requirement. Staff employees have been trained to comply with spill control procedures and the proper disposal of waste. A campus wide effort to inform students, staff and visitors was implemented. By directing the lawn mower discharge back into vegetated areas where possible, the University's Lands and Grounds personnel have been can limit the amount of lawn waste from being blown on impervious surfaces where it will flow into the storm drainage system.</p> <p>All contractors working on campus are required per contract to properly dispose of all waste material and are allowed only permitted discharges into the storm drainage system.</p> <p>The University's Utilities Dept, The Safety and Risk Dept. and the Office of Capital Projects are tasked to monitor this requirement.</p> <p>Additional Measurable Goals and Activities</p>	

SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)

# of Illicit Discharges Identified in 2015: 1	# of Illicit Discharges Tracked in 2015: 2
# of Illicit Discharges Eliminated in 2015:	# of Complaints Received: 0
# of Complaints Investigated: 0	# of Violations Issued: 0
# of Violations Resolved: 0	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 8	Total # of Illicit Discharges remaining unresolved at the end of 2015: 1
<p>Summary of Enforcement Actions: The university will need to re-pipe the sump discharge from the mechanical room of the Tootell Gym. The sump can collect some of the pool overflow. Currently the pool discharges into a storm drainage line that flows into Ellery Pond. The University has procured the services of a Gordon R Archibald to re-design the discharge of this sump to a proper destination. The University identified one new illicit discharge in 2015 located in the mechanical room in Woodward Hall where a sump pump was discharging into the drainage system. A work order was issued and the discharge from this sump pump has been re-directed into the sanitary sewer system.</p>	
<p>Extent to which the MS4 system has been mapped: 99%. The University continued updating drainage data and maps on GIS during 2015. Maps were updated mostly in new construction areas such as the new Chemistry Building and the expansion of the Butterfield Dining Hall. Other additions included some recent work by the URI Lands and Grounds Dept. The Utilities Dept. also uncovered three more buried drainage structures in 2015. A total of 89 outfalls have been identified. No new outfalls were identified in 2015.</p> <p>Total # of Outfalls Identified and Mapped to date: 89</p>	

ILLCIT DISCHARGE DETECTION AND ELIMINATION cont'd

SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.l)

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
24" Storm Drain	2-8-11	Briar Lane	South Kingston	Wetlands south of Briar Lane	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Fortin Road	South Kingston	2 Catch Basins on Fortin Road	Agreed to notify SK Engineer of any issues
12" Storm Drain	2-8-11	Chapel Road	South Kingston	10 Catch Basins on Chapel Road	Agreed to notify SK Engineer of any issues



**MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL
(Part IV.B.4 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

Responsible Party Contact Name: Andy Alcusky

Phone: (401) 874-2448 **Email:** aalcusky@uri.edu

IV.B.4.b.1	<p>Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was <u>not</u> developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.</p> <p>Date of Adoption: _____</p> <p>If the Ordinance was amended in 2015, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 <i>Ri Stormwater Design and Installation Standards Manual</i>, and provide references to the amended portions of the local codes/ordinances.</p>
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An ordinance for Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was not developed. The University does not have a mechanism to develop ordinances. The University owns all of the subject area and controls all activities on its properties. The mechanism to ensure proper erosion and sediment controls and control of other wastes is our "General Plans and Specifications" developed for and under the direction of the Office of Capital Projects by an A/E firm. Under Division 2, Site Construction, we require erosion and sediment control as well as the control of other wastes. These requirements are site specific and are developed by the A/E firm for each project. The requirements are enforced and managed by the project manager of each construction project. If the requirements are not met, we impose corrective actions in order to bring the project back into compliance. Failure to comply with the contract requirements results in a breach of contract and is dealt with according to contract law.

IV.B.4.b.6	<p>Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.</p> <p>Information from the public would be documented and evaluated by the University with a response provided after the evaluation. In 2015 the University did not receive any information or requests for information from the public.</p>
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IV.B.4.b.8	<p>Use the space below to describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.</p>
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The University did not have any referrals to the State for assistance in enforcing any part of RIPDES General Permit for Storm Water Discharge Associated with Construction Activity to this MS4 in 2015.

Additional Measurable Goals and Activities

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 12 (2015), Part IV.B.4.b.2: Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre.
Part IV.B.4.b.4: Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

of Construction Reviews completed: 0
 # of Permits/Authorizations issued: 0
 % of Total: N/A

Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement.

There was no new development in 2015 that would require the plan reviews. It is expected that the plans for the new Engineering Complex would be ready for review in 2016.

SECTION II.B - Erosion and Sediment Control Inspections during Year 12 (2015), Parts IV.G.2.n and IV.B.4.b.7: Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4 (the program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site).

# of Active Construction Projects: 4	
# of Site Inspections: 5	# of Complaints Received: 5
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0

Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement.

Final inspections were conducted by URI Utilities Dept. personnel at the Butterfield Dining Hall Expansion, new Electrical Sub-Station 1&2 and the Sigma Chi Fraternity. Initial construction inspections were performed at the new electrical Sub-Station 1&2. The Chemistry Project will not be complete until 2016.

Our records do not indicate any un-resolved complaints at any of these projects.



**MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND
REVELOPMENT
(Part IV.B.5 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

Responsible Party Contact Name: Andy Alcusky

Phone: (401) 874-2448 Email: aalcusky@uri.edu

IV.B.5.b.5 Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.

Long term BMP maintenance schedules are required to be included as part of the approval process for new development. Maintenance schedules are developed in accordance to the Rhode Island Stormwater design and Installation Standards Manual.

IV.B.5.b.6 Use the space below to describe actions taken for the referral to RIDEM of new discharges of stormwater associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new stormwater discharges associated with industrial activity to ensure that facilities will obtain the proper permits).

There was not any new industrial activity at this MS4 in 20015. Therefore there were no referrals to the State for any new discharges of storm water associated with industrial activity.

IV.B.5.b.9 Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.
Date of Adoption: _____
If the Ordinance was amended in 2015, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 *Ri Stormwater Design and Installation Standards Manual*, and provide references to the amended portions of the local codes/ordinances.

The Post-Construction Runoff from New Development and Redevelopment Ordinance was not developed. The University does not have a mechanism to develop ordinances. The University owns the subject area and controls all activities on its property. The mechanism to ensure proper post construction erosion and sediment controls and control of other wastes post construction is also our "General Plans and Specifications" developed for and under the direction of the Office of Capital Projects by an A/E firm. Under Division 2, Site Construction, we require erosion and sediment control as well as the control of other wastes. Post construction requirements are included in the storm water prevention plans developed for each project by the A/E firm. The requirements are enforced and managed by the project manager of each construction project in conjunction with our own certified inspector. If the requirements are not met, we impose corrective actions in order to bring the project back into compliance. Failure to comply with the contract requirements results in a breach of contract and is dealt with according to contract law.

IV.B.5.b.12 Use the space below to describe activities and actions taken to identify existing stormwater structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.

A list of BMPs was formulated in the Drainage Master Plan of 2006. In 2008, the list of BMPs was updated to include new BMPs since the Master Drainage Plan was developed. The procedure to add new BMPs and delete the BMP's removed during new construction is an annual task for the Utilities Dept. The Utilities Dept. updates the maintenance requirements for each new BMP. Each year the University updates this list as new work is completed on campus. In 2015 the number of BMP's increased and the updated list is included with the report. The BMP list increased due to a number of projects completed in the past year. The University uses the BMP list to schedule BMP maintenance.

Additional Measurable Goals and Activities

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 12 (2015), Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of stormwater runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs).

of Post-Construction Reviews completed: <u> 0 </u>
of Permits/Authorizations issued: <u> 0 </u>
% of Total: <u> N/A </u>
Summary of Reviews and Finding, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. There was no new development in 2015 that would require the plan reviews. It is expected that the plans for the new Engineering Complex would be ready for review in 2016.

SECTION II.B. - Post Construction Inspections during Year 12 (2015), Parts IV.G.2.o and IV.B.5.b.10 - Proper Installation of Structural BMPs: Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review).

# of Active Construction Projects: 3	
# of Site Inspections for proper Installation of BMPs: 9	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions: No enforcement actions were required. The URI Utilities Dept. conducted post construction inspections of four new BMP's at the new Chemistry Building, 2 new BMP's at the expanded Butterfield Dining Hall, one new BMP at the new electrical Sub-Stations, and two BMP's installed by URI's Lands and Grounds Dept.	

SECTION II.C. - Post Construction Inspections during Year 12 (2015), Parts IV.G.2.p and IV.B.5.b.11 - Proper Operation and Maintenance of Structural BMPs: Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections for proper O&M of BMPs: 94	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. The Utilities Dept. conducted inspections of all structural BMP's throughout the campus. The post construction inspections are done as part of the overall BMP inspections throughout campus. A total of 37 work orders were issued to the Lands & Grounds Dept. for maintenance. The inspections provide a good mechanism to identify potential problems (such as flooding risks to buildings) in addition to the environmental concerns. When the work orders are completed the Utilities Dept. verifies that the work was properly completed.	

Strategies being implemented to ensure long-term Operation and Maintenance (O&M) of privately-owned BMPs, check all that apply in your municipality/MS4:

- None, No privately owned BMP's
- Ordinances or by-laws identify BMP inspection responsible party
- Ordinances or by-laws identify BMP maintenance responsible party
- Ordinances or by-laws identify BMP inspections and maintenance requirements
- Ordinances or by-laws provide for easements or covenants for inspections and maintenance
- Ordinances or by-laws require for every constructed BMP an inspections and maintenance agreement
- Ordinances or by-laws contain requirements for documenting and detailing inspections
- Ordinances or by-laws contain requirements for documenting and detailing maintenance
- Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure
- The MS4 is responsible for inspections of all privately-owned BMPs
- The MS4 is responsible for maintenance of all privately-owned BMPs
- Establishment of escrow account for use in case of failure of BMP
- Other strategies to ensure long-term O&M of privately-owned BMPs, describe:
- The University does not have any privately owned BMP's. All BMP's are MS4 owned BMP's.

Do you have an inventory of privately owned BMPs? YES N/A

- Do you have a system for tracking:
- a. Agreements and arrangements to ensure O&M of BMPs? YES N/A
 - b. Inspections? YES N/A
 - c. Maintenance plans and schedules of privately-owned BMPs? YES N/A
 - d. Complaints? YES N/A
 - e. Non-Compliance? YES N/A
 - f. Enforcement actions? YES N/A

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections, and maintenance? YES NO

If yes, please elaborate on which tools are used:

URI uses electronic spread sheets to track post construction BMP's

NOTE: BMP maintenance tasks can be a great way to involve and educate the community to their purpose and function. BMPs have the potential to create a highly interactive environment for community members and volunteers to get involved.



**MINIMUM CONTROL MEASURE #6:
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS
(Part IV.B.6 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

Responsible Party Contact Name: Andy Alcusky

Phone: (401) 874-2448 Email: aalcusky@uri.edu

IV.B.6.b.1.i Use the space below to describe activities and actions taken to identify structural BMPs owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement.

Do you have an inventory of MS4-owned BMPs? YES NO

The University updates the list of BMP's annually. BMP's are added/removed as a result of new construction activity. The BMP list is also updated as a result of various other stormwater inspections such as catch basin and outfall inspections. Other BMP's are discovered during storm events when we observe storm water flow throughout the campus. In 2015, eleven new BMP's were added to our inventory of BMP's. The University's Utilities Dept. uses this inventory for planned inspections/maintenance of the BMP's. The BMP inventory list is a useful tool to ensure proper inspection of all BMP's.

IV.B.6.b.1.ii Use the space below to describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement.

Do you have a system for tracking:

- a. Inspection schedules of MS4-owned BMPs? YES NO
- b. Maintenance/cleaning schedules of MS4-owned BMPs? YES NO
- c. Repairs, corrective actions needed? YES NO
- d. Complaints? YES NO

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance? YES NO

The University's BMP inventory spreadsheet lists the inspection and maintenance requirements for each BMP. Results of the inspections and any maintenance /corrective actions taken are included in an expanded portion of the BMP inventory spreadsheet.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.iii	<p>Use the space below to describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement.</p> <p>Total # of CBs within regulated area (including SRPW and TMDL areas): <u>926</u></p> <p>Total # of CB's within regulated area with sumps: <u>724</u></p> <p>Total # of CBs inspected in 2015: <u>916</u></p> <p>Total # of CBs cleaned in 2015: <u>512</u> % of Total: <u>56%</u> (all CB's) <u>70%</u> CB's w/Sumps</p> <p>Quantity of sand/debris collected by cleaning of catch basins: <u>38 small dump trucks about 2800 CF</u></p> <p>Location used for the disposal of debris: <u>On university property at soil stockpile compost area</u></p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
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The University uses their catch basin inventory spread sheet to record inspection and cleanings on drainage structures. Generally the catch basins along all roads are cleaned yearly. These basins generally need annual cleanings due mainly to the amount of leaves that flow into the basins. Basins located in turf areas usually do not require the annual cleanings but are inspected annually. Basins in turf areas are usually cleaned every other year.

IV.B.6.b.1.iv	Use the space below to describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this
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In 2015, the University worked in a number of areas to minimize erosion of road shoulders and sloped areas throughout the campus.

Additional Improvements included the following:

- Curbing was installed on the north side of West Alumni Ave in the vicinity of the new electrical sub-stations. The curbing was installed to limit erosion from water flowing west down West Alumni Ave and then cutting across the new sub-station site and eroding a slope on the west side of the sub-station site.
- A contractor working for the URI Lands and Grounds Dept. installed new asphalt berms on the westerly and southerly roads of Fraternity Circle. The berms were used to direct storm water to the closed drainage system and stop the flow from eroding the shoulders.
- A catch basin and associated discharge piping was installed in a parking lot north of the steam plant. The catch basin was installed to capture water that flowed down the sides of an adjacent walkway with erosion as a result. The new catch basin captures most of this flow.
- On the north side of the Library precast curbing was installed on the south side of west Alumni Ave to direct storm water flow to the closed drainage system. Prior to this change some of the storm flow would be eroding the adjacent shoulder and flooding the basement of the Library.
- At a walkway just south of Quinn Hall, a drain manhole was converted into a catch basin to capture storm flow traveling on the north side of the walkway.
- Precast concrete curbing was installed on the west side of Tootell Road opposite the Sherman building to direct storm flow to the adjacent paved waterways.

Most roadways throughout campus have curbs to minimize erosion. Swales and ditches are also used to limit erosion of road side shoulders. Areas that have been disturbed by winter activities are repaired and seeded in the spring. The University has been making a concerted effort to funnel pedestrian traffic to remain on walkways and have been trying to restrict pedestrian traffic from shortcuts across landscaped areas. Other areas that could be subject to erosion are being identified to be addressed in 2016. The effects of repaired areas are readily apparent with less eroded material accumulating in the roads and drainage system.

IV.B.6.b.1.v	Use the space below to describe activities and actions taken to identify and report known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation, for the Department to determine on a case-by-case basis if the scouring or sedimentation is a significant and continuous source of sediments. Evaluate appropriateness and effectiveness of this requirement.
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During the annual inspection of outfalls, the outfalls are inspected for scouring and excessive sedimentation. Areas that are in need of repair are reported to the URI Control Center and a work order is generated. There were eleven outfalls identified in 2015 where there was extensive sedimentation. There were ten outfalls with excessive vegetation identified in 2015. These outfalls were cleaned up by the URI Lands & Grounds Dept. The inspections of the outfalls are not only a requirement but provide a tremendous tool to identify potential storm water flow issues prior to a significant rain event.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

<p>IV.B.6.b.6</p>	<p>Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.</p> <p>How many stormwater management trainings have been provided to <i>municipal employees</i> during this reporting period? <u>1 Training Session Repeated Five Times during the Year Part of Annual Waste Disposal Training</u></p> <p>What was the date of the last training? <u>09/24/15</u></p> <p>How many <i>municipal employees</i> have been trained in this reporting period? <u>215</u></p> <p>What percent of <i>municipal employees</i> in relevant positions and departments receive stormwater management training? <u>100%</u></p>
<p>The University requires the Facilities Dept staff to attend refresher courses on material handling and proper disposal annually. These courses are conducted by the URI Safety and Risk Dept. The annual refresher courses for the staff, is needed not only per regulations, but it is a useful tool to reinforce the reasons why the regulations are required. Attendees of the material handling safety course have noted some potential issues with disposal of some of their cleaning products. The custodial staff had noted the difficulty emptying their waxing machines in the proper manner. As a result of the safety sessions the University's Safety and Risk Dept is working with the custodial staff to ensure the waste products are not discharged into the storm water system. The training program has also eliminated potential illicit discharges into the storm water system. Inquiries have been made prior to the work starting on acceptable methods of cleaning equipment and acceptable means of disposing the waste water.</p>	
<p>IV.B.6.b.7</p>	<p>Use the space below to describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.</p>
<p>RIDEM permitting will be required for all new flow management projects to assess water quality impacts. The University encourages infiltration and groundwater recharge utilization in new projects and re-developments. The College of Pharmacy, the Hillside Residence Hall, the Wellness & Fitness Center, and the Flagg Road Extension are examples of recent completed projects where multiple water quality practices have been utilized. The new Chemistry Building is an example of a project currently under construction following this requirement. In addition, the University is considering other small detainage/infiltration areas in small scale projects to decrease storm water impacts. The planned renovation of the Fine Arts Parking Lot and the construction of the new Engineering Complex will also incorporate a variety of flow management practices as well. All of these projects will improve not only water quality but also decrease the severity of flood events.</p>	
<p>Additional Measurable Goals and Activities</p>	

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:
BMP-01	Northwest of Independence Square and south of the Intramural athletic	URI	Level Spreader
BMP-02	Ballentine Hall Detention Pond, north of Ballentine Hall	URI	Detention Pond
BMP-03	Butterfield Rd Sedimentation box; North of Hope Dining Hall	URI	Sedimentation Box
BMP-04	CBLs Rain Garden	URI	Rain Garden
BMP-05	North of CHI PHI Fraternity House, NW of Weldin Hall	URI	Detention structure, Stormceptor
BMP-06	BMP removed	URI	Detention Area removed as part of College of Pharmacy Project
BMP-07	Culvert at Route 138 Crossing White Horn Brook	URI	Culvert
BMP-08	White Horn Brook Culvert at Fraternity Circle Footpath	URI	Culvert
BMP-09	White Horn Brook Culvert at Fraternity Circle	URI	Culvert
BMP-10	White Horn Brook Culvert East of Mackal Gym	URI	Culvert
BMP-11	White Horn Brook Culvert at Elephant Walk	URI	Culvert
BMP-01	White Horn Brook Culvert West of Dorr Hall	URI	Culvert
BMP-02	White Horn Brook Culvert West Alumni Avenue	URI	Culvert
BMP-14	White Horn Brook Culvert at Flagg Road	URI	Culvert
BMP-15	Culvert Crossing Plains Road just South of Central Receiving Warehouse	URI	Culvert
BMP-16	Dairy Barn Parking Lot; North of Meade Stadium	URI	Pervious Parking Surface
BMP-17	Eddy Hall Infiltration System	URI	Infiltration System for Roof Drainage
BMP-18	Ellery Pond	URI	Detention Pond
BMP-19	Flagg Road Parking Lot West detention Basin	URI	Detention Pond
BMP-20	Flagg Road Parking Lot East Detention Basin	URI	Detention Pond
BMP-21	Swale East of Heathman Road	URI	Swale
BMP-22	Merrow Hall Detention Area West of Merrow Hall	URI	Detention Pond
BMP-23	Plains Road Parking Lot	URI	Swales, Infiltration System
BMP-24	Plains Road Parking Lot	URI	Pervious Parking Surface
BMP-25	Ryan Center/Tootell Vortechincs Units	URI	Vortechincs
BMP-26	Swale North of Sherman Building	URI	Swale
BMP-27	Fraternity Circle Swale – North of Sigma Chi	URI	Swale
BMP-28	White Horn Brook	URI	Stream/drainage Conduit
BMP-29	Infiltration Systems at Wiley/Garrahy Halls	URI	Infiltration Systems
BMP-30	Hope Dining Hall Drainage	URI	CB/DMH & Piping Drainage system

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-31	Freshman Dorms Drainage System	URI	CB/DMH & Piping Drainage System
BMP-32	Wiley/Garrahy Drainage System	URI	CB/DMH & Piping Drainage System
BMP-33	Eddy Hall Drainage System	URI	CB/DMH & Piping Drainage System
BMP-34	Flagg Road Swale (North of Flagg Road)	URI	Swale
BMP-35	Plains Road Parking Lot drainage	URI	Drainage System
BMP-36	Campus Wide Catch Basins	URI	Drainage System
BMP-37	Campus Wide DMH's	URI	Drainage System
BMP-38	Campus Wide Street Sweeping	URI	Street Sweeping
BMP-39	Campus Wide Parking Lots Sweeping	URI	Parking Lot Sweeping
BMP-40	Flagg Road/Plains Road Catch Basins	URI	Drainage System
BMP-41	Coastal Institute Catch Basins	URI	Drainage System
BMP-42	Campus Wide Streets and Walkways	URI	Inspect on a regular basis for potential erosion issues
BMP-43	Campus Wide Outfalls	URI	Outfalls
BMP-44	Outfall Map	URI	Outfall Map
BMP-45	Independence Square Infiltration System	URI	Infiltration System
BMP-46	Roger Williams Detention Pond	URI	Detention Pond
BMP-47	Open Channel North of Hope Dining Hall	URI	Waterway
BMP-48	Open Channel South of Hutchinson Hall	URI	Waterway
BMP-49	Retaining Wall South of CBLS	URI	BMP Removed in 2015 as Part of New Chemistry Building
BMP-50	CBLS Green Roof	URI	Green roof
BMP-51	CBLS Stormceptor	URI	Sedimentation unit
BMP-52	Hillside Dorm Water Quality Structures	URI	Sedimentation Unit
BMP-53	Hillside Dorms Bio-retention Areas	URI	Bio-retention area
BMP-54	Infiltration Basin south of Baird Hill Road and West of Lower College Road	URI	Infiltration Basin
BMP-55	Bio-Retention Area North of College of Pharmacy	URI	Bio-Retention Area
BMP-56	Swale south of Parking Services Building	URI	Swale
BMP-57	Swale East of Hillside East Access Road	URI	Swale
BMP-58	Paved swales at Keane Parking Lot	URI	Swale
BMP-59	Sherman East Lot infiltration System	URI	Infiltration System
BMP-60	Wellness Center Infiltration System	URI	Infiltration System
BMP-61	Culverts Crossing Plains Road North of Flagg Road	URI	Culverts

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-62	Culverts Crossing Flagg Road West of Plains Road	URI	Culverts
BMP-63	Flagg Road Extension Detention/Infiltration Basin "A"	URI	Infiltration Systems
BMP-64	Flagg Road Extension Porous Paving Lot	URI	Pervious Parking Surface
BMP-65	Central Receiving Infiltration	URI	Infiltration System
BMP-66	Storm Water Test Station	URI	Sampling Station
BMP-67	Infiltration/Detention Basin South of Sherman Building	URI	Infiltration System
BMP-68	Swale East of Butterfield Hall	URI	Swale
BMP-69	COP Medicinal Garden	URI	Rain Garden
BMP-70	Swale West of Davis Hall	URI	Swale
BMP-71	Swale East of Rodman Hall	URI	Swale
BMP-72	Swale East of White Hall (BMP Removed 2/14)	URI	Swale – Removed in 2014 as part of new Chemistry Building
BMP-73	Swale South of Fayerweather Hall	URI	Swale
BMP-74	Paved Swales at Gateway Apartments	URI	Swale
BMP-75	Paved Swale at Well House No. 2	URI	Swale
BMP-76	Plains Lot Addition (2013) – Infiltration Channels	URI	Infiltration System
BMP-77	Flagg Road Extension Swales Parallel to Road	URI	Swale
BMP-78	Plains Lot Addition (2013) – New Culverts into Basin "E"	URI	Culverts
BMP-79	Flagg Road Extension – Paved Waterways	URI	Swale
BMP-80	Flagg Road Extension Basin "H" Discharge Structure	URI	Infiltration system
BMP-81	White Hall Lot – Swale at NW Corner of Lot	URI	Swale
BMP-82	Greenhouse Lot – Dry Swales	URI	Swale
BMP-83	Greenhouse Lot – Grass Channel	URI	Swale
BMP-84	Greenhouse Lot – Paved Waterways	URI	Swale
BMP-85	Greenhouse Lot – Forebay/Infiltration System	URI	Infiltration System
BMP-86	Greenhouse Roof Drain infiltration System	URI	Infiltration System
BMP-87	Hillside Dorm Green Roof	URI	Infiltration System
BMP-88	Flagg Road Detention Basin "D"	URI	Infiltration System
BMP-89	Flagg Road Detention Basin "E"	URI	Infiltration System
BMP-90	Flagg Road Detention Basin "H"	URI	Infiltration System
BMP-91	Stone Swale east of Butterfield Residence Hall	URI	Swale

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

BMP-92	Tree Box Filters in Chemistry Building Area	URI	Detention/Infiltration System
BMP-93	Bioretention/Detention/Forebay System North of New Chemistry Building	URI	Detention/Infiltration System
BMP-94	Bioretention/Detention/Forebay System South of New Chemistry Building	URI	Detention/Infiltration System
BMP-95	Tree Box Filters in Flagg Road Parking Lot	URI	Detention/Infiltration System
BMP-96	Swale North of the CBLS NW Corner	URI	Swale
BMP-97	Rip Rap Swale West of New Electric Sub-Stations 1 & 2.	URI	Swale
BMP-98	Rip Rap Swale East of Butterfield Dining Hall	URI	Swale
BMP-99	Asphalt Berms at Fraternity Circle	URI	Swale
BMP-100	Swale North of Hopkins Hall	URI	Swale
BMP-101	Swale North of Chemistry/White Hall	URI	Swale

SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
URI-001	Flagg Road at White Horn brook	Sedimentation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept.	White Horn Brook
URI-002	West of Heathman Hall SE Corner	Sedimentation and vegetation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept.	White Horn Brook
URI -004	White Horn Brook at West Alumni Ave	Sedimentation	Sediment removed by Bobcat in July 2015 by URI Lands & Grounds Dept.	White Horn Brook
URI-008	South of Coddington Hall	Sedimentation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept. Outfall exposed and rip rap adjusted	White Horn Brook
URI-009	North of Dorr Hall	Sedimentation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept.	White Horn Brook
URI-012	East of Tootell Gym (North)	Sedimentation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept. Outfall exposed and rip rap adjusted	Ellery Pond
URI-013	East of Tootell Gym (South)	Sedimentation	Sedimentation removed and rip rap installed by URI Lands and Grounds Dept. in August 2015	Ellery Pond
URI-020	West of Adams Hall	Sedimentation and vegetation	Sedimentation and vegetation removed by backhoe in July 2015 by URI Lands & Grounds Dept.	White Horn Brook
URI-022	NW of Weldin Hall	Vegetation	Vegetation removed by URI Lands and grounds Dept. in July 2015	White Horn Brook

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

URI-025	Frat Circle at White Horn Brook	Sedimentation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept. Channel re-shaped	White Horn Brook
URI-026	North of Sorority AXD (West Side of Fraternity Circle Westerly Road)	Sedimentation	Sedimentation removed by backhoe in July 2015 by URI Lands & Grounds Dept.	White Horn Brook
URI-028	East of Keaney east lot & south of Fraternity Circle	Sedimentation	Sedimentation removed by backhoe in July 2015 by the URI Lands & Grounds Dept.	White Horn Brook
URI-039	West of Wiley Hall (North)	Vegetation	Vegetation removed by URI Lands and grounds Dept. in July 2015	White Horn Brook
URI-040	West of Wiley Hall (South)	Vegetation	Vegetation removed by URI Lands and grounds Dept. in July 2015	White Horn Brook
URI -041	West of Aldrich Hall	Sedimentation and vegetation	Sediment and Vegetation removed by contractor working for Lands and Grounds in Sept 2015	Roger Williams Pond
URI-056	CBLS Rain Garden	Vegetation	Invasive species removed by URI Lands and Grounds Dept. in July 2015	White Horn Brook
URI-067	West of Sorority AXD	Vegetation	Vegetation removed by URI Lands and grounds Dept. in July 2015	White Horn Brook
URI-070	West of Wiley Hall (Center)	Vegetation	Vegetation removed by URI Lands and grounds Dept. in July 2015	White Horn Brook
URI-080	North of Wellness Center	Vegetation	Vegetation removed by URI Lands and grounds Dept. in July 2015	Roger Williams Pond

SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).

The design for the renovations to the fine Arts Parking Lot has been submitted and approved by DEM. The renovation to the Fine Arts Parking Lot will incorporate a number water quality features such as storage systems with metered outflow, bioretention basins and bioretention swales. This project was designed by Gordon R Archibald Associates and has been reviewed by DEM. The new Engineering Complex will also incorporate a number of water quality BMP's. The design of this project has just started.

SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).

Dry weather survey data is attached to this report and has also been sent to DEM electronically.



TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.



SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System (RIPDES Regs)*, on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: <http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.