



Rhode Island Department of Transportation

STORM WATER POLLUTION PREVENTION PLAN TEMPLATE

	<i>Cover Page</i>	Project, Owner, Operator, SWPPP Preparer, Date, Project Dates
	<i>Certifications</i>	Signed by RIDOT (Owner) and CONTRACTOR (as Operator)
	<i>Table of Contents</i>	
	<i>Introduction</i>	Copy/Paste from Template

SECTION 1

SITE DESCRIPTION – RIPDES SECTION IV.E.1

1.1	Project/Site Information	General Description General Site Map
1.2	Nature and Sequence of Construction Activity (IV.E.1.b)	Provide a narrative describing the nature and estimated timetable for the construction activities, including a sequence of major activities of the project, and the ultimate intended use of the project (e.g. shopping mall, residential subdivision, etc.).
1.3	Existing and Proposed Soils, Slopes, Vegetation, and Drainage Patterns (IV.E.1.e)	Provide description of pre- and post-construction site conditions of SOILS, SLOPES, VEGETATION/IMPERVIOUS, DRAINAGE
1.4	Construction Site Estimates (IV.E.1.c & IV.E.1.d)	Provide construction site estimates of the total area of the site and the total area of the site that is expected to undergo soil disturbance and the calculated pre-construction and post-construction runoff coefficients for the site. Construction Site Area to be disturbed Total Project Area Percentage impervious area before construction Runoff coefficient before construction Percentage impervious area after construction Runoff coefficient after construction
1.5	Receiving Waters (III.A.7)	List the waterbody(s) that will receive stormwater from the site, including streams, rivers, lakes, coastal waters, and wetlands. Note any stream crossings, if applicable. List the storm sewer system or drainage system that stormwater from the site could discharge to and the waterbody(s) that it ultimately discharges to. If any of the waterbodies above are impaired (303(d) listed) and/or subject to Total Maximum Daily Loads (TMDLs), list the pollutants causing the impairment and any specific requirements in the TMDL(s) that are applicable to construction sites.

<p>1.6</p>	<p>Allowable Non-Storm Water Discharges (IV.E.1.g)</p>	<p>Discharges not comprised of storm water are allowed under the General permit but are limited to the following: discharges which result from the washdown of vehicles where no detergents are used; external building washdown where no detergents are used; the use of water to control dust; fire fighting activities; fire hydrant flushings; natural springs; uncontaminated groundwater; lawn watering; potable water sources including waterline flushings; irrigation drainage; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents are not used; and foundation or footing drains where flows are not contaminated with process materials such as solvents, or contaminated by contact with soils where spills or leaks of toxic or hazardous materials has occurred. If any of these discharges may reasonably be expected to be present and to be mixed with storm water discharges, they must be specifically listed here.</p>
<p>1.7</p>	<p>Existing data of known discharges from site (IV.E.1.h)</p>	<p>List and provide existing data (if available) on the quality of any known discharges from the site.</p>
<p>1.8</p>	<p>Endangered Species Certification / Natural Heritage Areas (III.A.8)</p>	<p>Any/all applicable federal, state, local, or tribal endangered/threatened species requirements should be reviewed to determine if there are endangered species or critical habitat on or near the construction site. RIDEM Natural Heritage Area maps should be reviewed to determine if there are natural heritage areas on or near the construction site.</p>
<p>1.9</p>	<p>Historic Preservation / Cultural Resources</p>	<p>Any/all applicable federal, state, local, or Native American historic preservation laws should be reviewed to determine if there are historic sites on or near the construction site. MUST coordinate with the RIDOT Cultural Resources Unit.</p>
<p>1.10</p>	<p>Site Features and Sensitive Areas to be Protected</p>	<p>Describe unique site features including streams, stream buffers, wetlands, specimen trees, natural vegetation, steep slopes, or highly erodible soils that are to be preserved. Describe measures to protect these features.</p>
<p>1.11</p>	<p>Potential Sources of Pollution (IV.E.1.f)</p>	<p>Provide a description of potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site (i.e. exposed, un-stabilized soil stockpiles, clearing and grubbing operations, vehicle tracking, concrete washouts, diesel fuel, etc.)</p>
<p>1.12</p>	<p>Site Maps (IV.E.1.a)</p>	<p>Attach site maps. For most projects, a series of site maps is recommended. The first should show the undeveloped site and its current features. An additional map or maps should be created to show the developed site or the major phases of development.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Total area of development <input type="checkbox"/> Total area of soil disturbance <input type="checkbox"/> Pre- and post-development drainage patterns <input type="checkbox"/> Approximate slopes anticipated after the completion of major grading activities <input type="checkbox"/> Location of all erosion and sedimentation storm water control structures <input type="checkbox"/> Location of all impervious structures <input type="checkbox"/> Location & name of receiving waters, all waters of the State, including wetlands <input type="checkbox"/> Location of environmentally sensitive features/areas to be preserved (Section 1.10) <input type="checkbox"/> Locations of all non-structural BMPs (material storage areas, concrete washouts, dumpsters, stockpiles, etc.) <input type="checkbox"/> Locations of all waters of the State, including wetlands <input type="checkbox"/> Locations of all endangered species habitats, historic sites, and natural heritage areas <input type="checkbox"/> Direction(s) of stormwater flow <input type="checkbox"/> Areas that will not be disturbed <input type="checkbox"/> Locations and timing of stabilization measures <input type="checkbox"/> Locations of material, waste, and/or equipment storage areas <input type="checkbox"/> Locations of storm drain inlets and outfalls

SECTION 2

Erosion and Sedimentation Controls – RIPDES SECTION IV.E.2.a

Provide a description of measures that will be installed before and during the construction project to control pollutants in storm water discharges that will occur at the site. Such measures may include: perimeter controls, stock pile covering, storm drain inlet protection, check dams, and temporary seeding.

Include RIDOT Standard Specification or Standard Detail reference with maintenance requirements.

	Narrative	Copy/Paste from Template
2.1	Minimize Disturbed Area and Protect Natural Features and Soil	Describe the areas that will be disturbed with each phase of construction and the methods (signs, fences, etc.) that will be used to protect those areas that should not be disturbed. Describe natural features identified earlier and how each will be protected during construction activity. Also describe how topsoil will be preserved.
2.2	Phase Construction Activity	Describe the intended construction sequencing and timing of major activities, including grading activities, road and utility installation, and building phases. The first phase should include all erosion and sediment controls that are required to be in place before earthwork begins. Phase II through XX may include erosion and sediment controls required while earthwork is being done. The final phase should include final stabilization BMPs.
2.3	Phased Clearing/Grubbing	Copy/Paste from Template: As per RIDOT Standard Specification 201.03.1 – Clearing and Grubbing: After clearing, and by the end of each day's grubbing operation, the Contractor shall install erosion control measures that are indicated on the Plans or as directed by the Engineer. Such erosion control measures shall be installed in strict accordance with the requirements of SECTIONS 206, 207, and 208 of these Specifications, PERIMETER EROSION CONTROLS, CHECK DAMS, and TEMPORARY DEWATERING BASINS, respectively.
2.4	Monitoring Weather Conditions	List the weather gauge station that will be utilized to monitor weather conditions on the construction site. See www.wunderground.com or www.weather.gov for available stations.
2.5	Initiating Stabilization Practices	Copy/Paste from Template: As per RIPDES General Permit (Construction Activity) Section IV.E.2.a: Upon completion and acceptance of site preparation and initial installation of erosion and sediment controls the operator shall initiate appropriate stabilization practices during all phases of construction on all disturbed areas as soon as possible but not more than fourteen (14) days after the construction activity in that area has temporarily or permanently ceased, unless the activity is to resume within twenty one (21) days.
2.6	Control Stormwater Flowing Onto and Through the Project	Describe structural practices (i.e., diversions, berms, ditches, storage basins) including design specifications and details used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site.
2.7	Stabilize Soils	Describe controls (i.e., temporary seeding with native vegetation, hydroseeding, etc.) including design specifications and details that will be implemented to stabilize exposed soils where construction activities have temporarily or permanently ceased. Also describe measures to control dust generation. Use of impervious surfaces for stabilization should be avoided whenever possible.

2.8	Protect Slopes	Describe controls (i.e., erosion control blankets, tackifiers, etc.) including design specifications and details that will be implemented to protect all slopes.
2.9	Protect Storm Drain Inlets	Describe controls (i.e., inserts, rock-filled bags, or block and gravel, etc.) including design specifications and details that will be implemented to protect all inlets receiving stormwater from the project during the entire duration of the project.
2.10	Protect Storm Drain Outfalls	Describe controls (i.e., inserts, rock-filled bags, or block and gravel, etc.) including design specifications and details that will be implemented to protect outlets discharging stormwater from the project during the entire duration of the project.
2.11	Establish perimeter controls and sediment barriers	Describe structural practices (i.e., silt fences or fiber rolls) including design specifications and details to filter and trap sediment before it leaves the construction site.
2.12	Retain Sediment On-Site and Control Dewatering Practices	Describe sediment control practices (i.e., sediment trap or sediment basin), including design specifications and details (volume, dimensions, outlet structure) that will be implemented at the construction site to retain sediments on-site. Describe dewatering practices that will be implemented if water must be removed from an area so that construction activity can continue.
2.13	Additional BMPs	Describe additional BMPs that may not fit into the above categories.
Table		
2.14	Erosion and Sediment Control BMPs	<p>THIS TABLE IS TO BE USED IN THE INSPECTION REPORTS... MAKE SURE IT'S FILLED OUT COMPLETELY</p> <p>LOCATION BMP DESCRIPTION STANDARD SPEC/DETAIL REF MAINTENANCE REQUIREMENT PHASE OF CONSTRUCTION</p>

SECTION 3

Good Housekeeping – RIPDES SECTION IV.E.2.c

The purpose of good housekeeping is to prevent daily construction activities from causing pollution.

Describe the key good housekeeping and pollution prevention measures that will be implemented to control pollutants in stormwater. Examples BMPs include the proper management of waste, material handling and storage, and equipment/vehicle fueling/washing/maintenance operations.

Include RIDOT Standard Specification or Standard Detail reference with maintenance requirements.

	Narrative	Copy/Paste from Template
3.1	Off-site Vehicle Tracking of Sediments (IV.E.2.c.i)	Describe location(s) of vehicle entrance(s) and exit(s), procedures to remove accumulated sediment off-site (i.e., vehicle tracking), and stabilization practices (i.e., stone pads and/or wash racks) to minimize off-site vehicle tracking of sediments and discharges to stormwater.
3.2	Waste Disposal Practices (IV.E.2.c.ii)	Describe measures (i.e., trash disposal, sanitary wastes, recycling, and proper material handling) to prevent the discharge of solid materials. All types of waste generated at the site shall be disposed of in a manner consistent with State Law and/or regulations.
3.3	Spill Prevention and Response Procedure (IV.E.2.c.iii)	Describe all areas where potential spills can occur, and their accompanying drainage points, and describe the spill prevention and control plan to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control.
3.4	Control of Allowable Non-Storm Water Discharges (IV.E.2.c.iv)	For the allowable non-stormwater discharge(s) associated with construction industrial activity identified in Section 1.9, describe controls and measures that will be implemented at those sites to minimize pollutant contamination.
3.5	Establish Proper Building Material Staging Areas (IV.E.2.c.v)	Describe construction materials expected to be stored on-site and procedures for storage of materials to minimize exposure of the materials to stormwater.
3.6	Designate Washout Areas (IV.E.2.c.v)	Describe location(s) and controls to minimize the potential for stormwater pollution from washout areas for concrete mixers, paint, stucco, etc.
3.7	Establish proper equipment/vehicle fueling and maintenance practices (IV.E.2.c.v)	Describe equipment/vehicle fueling and maintenance practices that will be implemented to control pollutants to stormwater (e.g., secondary containment, drip pans, spill kits, etc.)
3.8	Dust Control (IV.E.2.c.v)	Describe dust control practices that will be implemented to control pollutants to stormwater.
3.9	Sweeping (IV.E.2.c.v)	Describe sweeping practices and schedule that will be implemented to control pollutants to stormwater.
3.10	Additional BMPs	Describe any additional BMPs that don't fit into the above categories. Indicate the problem they are intended to address.

Table

3.11	Good Housekeeping BMPs	<p>THIS TABLE IS TO BE USED IN THE INSPECTION REPORTS MAKE SURE IT'S FILLED OUT COMPLETELY</p> <p>LOCATION BMP DESCRIPTION STANDARD SPEC/DETAIL REF MAINTENANCE REQUIREMENT PHASES OF CONSTRUCTION</p>
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SECTION 4

Post-Construction Management – RIPDES SECTION IV.E.2.b

Provide a description of measures that will be installed during the construction project to control pollutants in storm water discharges that will occur at the site after the construction operations have been completed.

Such measures may include: infiltration of runoff on-site, flow attenuation by use of open vegetated swales and natural depressions, vegetated buffer strips, and the use of detention/ retention structures. Where controls are needed to prevent or minimize erosion, velocity dissipation devices shall be placed at all outfall locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to the receiving waters.

Include RIDOT Standard Specification or Standard Detail reference with maintenance requirements.

	Narrative	Copy/Paste from Template
4.1	Post Construction BMPs Description	Describe all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed.
4.2	Low Impact Design or Smart Growth Considerations	Describe how low impact design (LID) or smart growth considerations have been incorporated into the design.
<i>Table</i>		
4.3	Post-Construction BMPs	THIS TABLE IS TO BE USED IN THE INSPECTION REPORTS MAKE SURE IT'S FILLED OUT COMPLETELY LOCATION BMP DESCRIPTION STANDARD SPEC/DETAIL REF MAINTENANCE REQUIREMENT PHASES OF CONSTRUCTION

SECTION 5

Maintenance and Inspections - RIPDES SECTION IV.E.2.d

5.1	Maintenance	Copy/Paste from Template
5.2	Inspections	Copy/Paste from Template
5.3	Corrective Actions	Copy/Paste from Template
<i>Table</i>		
5.4	Long-term Maintenance	Copy/Paste Narrative from Template For each post-construction stormwater structure, provide inspection and maintenance requirements DESCRIPTIVE LOCATION BMP DESCRIPTION INSPECTION REQUIREMENT MAINTENANCE REQUIREMENT

SECTION 6**Amendments – RIPDES SECTION IV.D**

	Requirements	Copy/Paste from Template
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SECTION 7**Record Keeping – RIPDES SECTION II.A & Section II.D**

	Requirements	Copy/Paste from Template
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SECTION 8**Party Certifications**

	Narrative	Copy/Paste from Template
	RIDOT Resident Engineer	
	RIDOT Inspector	
	Contractor	
	Sub-Contractor	

ATTACHMENTS

	A– General Location Map	G– Corrective Action Log
	B– Site Plans	H– Amendments Log
	C– Copy of RIPDES General Permit	I– Post-Construction BMP Inspection Reports
	D– Copy of Regulatory Permits	J– Post-Construction BMP Inspection Log
	E– Copy of RIPDES NOI	K– Additional Information (i.e. documentation)
	F– Inspection Reports	