

RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE

CEM-2045 (REV. 4/2012)

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
Submitted by contractor (print and sign name)		Date
Water pollution control manager name and company name	Phone number	
	Emergency (24/7) phone number	
Erosion and sediment control provider or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	
Stormwater sampling and testing agent or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	

Storm Information

Attach forecasted precipitation information from the National Weather Service Forecast Office website, <http://www.srh.noaa.gov/forecast>.

Project site ZIP code	Date forecast checked	Time forecast checked
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Will predicted weather pattern rain event produce 1/2-inch or more rain? <input type="checkbox"/> Yes <input type="checkbox"/> No	Note: A qualifying rain event happens when a predicted weather pattern will produce 1/2-inch or more of precipitation. A qualifying rain event will require stormwater visual monitoring site inspections and sampling and analysis of stormwater discharges.	

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Activities Associated with Highway Construction Projects*Check ALL boxes below that apply to current project site.*

<input type="checkbox"/> Cleaning and grubbing	<input type="checkbox"/> Finish grading	<input type="checkbox"/> Traffic striping and pavement markings
<input type="checkbox"/> Earthwork	<input type="checkbox"/> Structure construction	<input type="checkbox"/> Highway planting
<input type="checkbox"/> Culvert construction	<input type="checkbox"/> Soundwall construction	<input type="checkbox"/> Soil amendments
<input type="checkbox"/> Rough grading	<input type="checkbox"/> Curbs, gutters, and sidewalks	<input type="checkbox"/> Plant establishment
<input type="checkbox"/> Storm drain Installation	<input type="checkbox"/> Paving operations	<input type="checkbox"/> Material delivery and storage
<input type="checkbox"/> Utility installation water-gas-sewer	<input type="checkbox"/> Finishing roadway	<input type="checkbox"/> Equipment maintenance and fueling
<input type="checkbox"/> Structure foundations (including piles)	<input type="checkbox"/> Metal beam guard rail installation	<input type="checkbox"/> Erosion and sediment control
<input type="checkbox"/> Subgrade grading	<input type="checkbox"/> Sign installation	<input type="checkbox"/> Other _____
<input type="checkbox"/> Subbase and base placement	<input type="checkbox"/> Highway electrical work	<input type="checkbox"/> Other _____

Subcontractors or Trades Active on Site for Highway Construction*Check All boxes below that apply to current project site.*

<input type="checkbox"/> Grading (operating engineers)	<input type="checkbox"/> Curb, gutter and sidewalk (carpenters, laborers and concrete finishers)
<input type="checkbox"/> Underground storm drain (operating engineers and laborers)	<input type="checkbox"/> Lighting and signals (operating engineers and electricians)
<input type="checkbox"/> Underground utilities (operating engineers and laborers)	<input type="checkbox"/> Metal beam guard rail (operating engineers and laborers)
<input type="checkbox"/> Underground utilities (public or private utility company)	<input type="checkbox"/> Signs (operating engineers)
<input type="checkbox"/> Pile Installation (pile butts)	<input type="checkbox"/> Traffic striping and pavement markings
<input type="checkbox"/> Concrete foundations (carpenters, laborers, and concrete finishers)	<input type="checkbox"/> Masonry soundwalls (masons and laborers)
<input type="checkbox"/> Bar reinforcement placement	<input type="checkbox"/> Erosion and sediment control
<input type="checkbox"/> Structure construction (carpenters and laborers)	<input type="checkbox"/> Highway planting
<input type="checkbox"/> Concrete placement (operating engineer, laborers and concrete finishers)	<input type="checkbox"/> Other _____
<input type="checkbox"/> Hot mix asphalt placement (operating engineers and laborers)	<input type="checkbox"/> Other _____

Trade (Subcontractor) information Provided*Check ALL boxes below that apply to current project site.*

<input type="checkbox"/> Project SWPPP Handout	<input type="checkbox"/> Tailgate Meetings
<input type="checkbox"/> Contract Specifications	<input type="checkbox"/> Poster and Signage
<input type="checkbox"/> Educational Material Handout	<input type="checkbox"/> Other _____
<input type="checkbox"/> SWPPP Training Workshop	<input type="checkbox"/> Other _____

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Predicted Rain-Event-Triggered Actions

Activity	Actions Required Before Predicted Rain Event
Information and Scheduling	<p><input type="checkbox"/> Project superintendent informed of predicted rain at _____ (time) on _____ (date).</p> <p><input type="checkbox"/> Foreman and subcontractors informed of predicted rain.</p> <p><input type="checkbox"/> Erosion control or sediment control provider notified to provide.</p> <p style="padding-left: 40px;"><input type="checkbox"/> Pre-storm crew with at least _____ people</p> <p style="padding-left: 40px;"><input type="checkbox"/> Pre-storm crew to start implementing storm event actions by _____ (time) on _____ (date)</p> <p><input type="checkbox"/> Sample collection and testing provider alerted if non-visible pollutant sampling and testing required.</p> <p>List of non-visible pollutant sampling locations and parameters:</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p><input type="checkbox"/> Check for adequate erosion and sediment control materials are on hand for</p> <p style="padding-left: 40px;"><input type="checkbox"/> Pre-storm required actions</p> <p style="padding-left: 40px;"><input type="checkbox"/> Extended storm event maintenance and repair</p> <p><input type="checkbox"/> Review that the BMP site map is updated and provide a copy to erosion and sediment control provider or subcontractor.</p> <p><input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Other _____</p>
	Additional Actions Required Before a Qualified Rain Event
	<p><input type="checkbox"/> Pre-storm stormwater site inspection completed.</p> <p><input type="checkbox"/> Listed corrective actions identified by pre-storm stormwater site inspection that must be corrected before storm event on page 7 of this REAP.</p> <p><input type="checkbox"/> Staff scheduled for inspections during storm.</p> <p><input type="checkbox"/> Erosion control or sediment control provider notified at _____ (time) on _____ (date) to provide crew during the storm event of at least _____</p> <p><input type="checkbox"/> The attached contingency plan is to be implemented in the event of flooding:</p>

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Predicted Rain-Event-Triggered Actions, continued

Activity	Construction Site Monitoring Program Actions Required Before a Qualified Rain Event
Information and Scheduling	<p><input type="checkbox"/> Review the discharge location site map for the current phase of the project, and include additional non-visible pollutant sampling locations identified during pre-storm stormwater site inspection.</p> <p><input type="checkbox"/> Alert sample collection and testing provider that sampling will be required and provide the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Updated discharge location site map <input type="checkbox"/> The required number of sampling locations for this phase of the project: <ul style="list-style-type: none"> <input type="checkbox"/> _____ Discharge points <input type="checkbox"/> _____ Run-on locations <input type="checkbox"/> _____ Receiving waters for Risk Level 3 <input type="checkbox"/> _____ Non-visible potential discharge points <p>Run-on Sampling Locations</p> <ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ <p>Discharge Sampling Locations</p> <ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ <p>Receiving Water Sampling Locations</p> <ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ <p><input type="checkbox"/> Identify non-visible pollutant testing locations and parameters on page 3.</p> <p><input type="checkbox"/> Sampling will be needed beginning at approximately _____ (time) on _____ (date).</p>

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Predicted Rain-Event-Triggered Actions, continued

Activity	Actions Required Before Predicted Rain Event
Material Storage Areas	<input type="checkbox"/> Material covered or in sheds (ex treated woods and metals) <input type="checkbox"/> Stockpiles covered and perimeter control installed <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Waste Management Areas	<input type="checkbox"/> Dumpsters closed <input type="checkbox"/> Drain holes plugged <input type="checkbox"/> Recycling bins covered <input type="checkbox"/> Sanitary stations bermed and protected from tipping <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Concrete Rinse Out Areas	<input type="checkbox"/> Wash-out bins covered <input type="checkbox"/> Adequate capacity for rain <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Operations	<input type="checkbox"/> Operations to shut down for rain event <ul style="list-style-type: none"> <input type="checkbox"/> Grading <input type="checkbox"/> Concrete pours <input type="checkbox"/> Hot mix asphalt paving <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Soil amendments not to be applied within the 24 hours before a rain event <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____

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Predicted Rain-Event-Triggered Actions, continued

Activity	Actions Required Before Predicted Rain Event																				
Secure Site for Storm Event	<input type="checkbox"/> Materials and equipment properly stored and covered. <input type="checkbox"/> Waste and debris disposed in covered dumpsters or removed from site. <input type="checkbox"/> Trenches and excavations protected. <input type="checkbox"/> Perimeter controls around disturbed areas. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____																				
Site Erosion and Sediment Control BMPs	<input type="checkbox"/> Site perimeter controls are in place. <input type="checkbox"/> Catch basin and drop inlet protection are in place. <input type="checkbox"/> Sediment basins and traps have adequate capacity. <input type="checkbox"/> Deploy temporary perimeter control on inactive areas. <input type="checkbox"/> Deploy temporary perimeter control around active disturbed soil areas and active stockpiles. <input type="checkbox"/> Sweep access roads. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____																				
Spills and Drips	<input type="checkbox"/> Clean up all spills and drips, including paint, fuel, and oil. <input type="checkbox"/> Empty drip pans. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____																				
Pre-storm Inspection Identified Corrective Actions	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: right;">Corrective Action Number</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/> _____</td><td style="text-align: right;">_____</td></tr> </tbody> </table>		Corrective Action Number	<input type="checkbox"/> _____	_____																
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Certification of Rain Event Action Plan

I certify under penalty of law that this Rain Event Action Plan (REAP) will be implemented in accordance with the Construction General Permit by me or under my direction or supervision. The information contained in this REAP was gathered and evaluated by qualified personnel before submittal. Base on my review of the information and inquiry of those who gathered and evaluated the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that Section 309 (c)(4) of the CWA provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation or certification.

Water pollution control manager name	Date
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Water pollution control manager signature

Accepted by resident engineer name	Date
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Resident engineer signature
