STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORM EVENT SAMPLING AND ANALYSIS PLAN

CEM-2048 (NEW 2/2011)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ Risk Level 2 ☐ Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

Storm Event Sampling and Analysis Plan

Weather Forecast Information

Weather Forecast at _____ *(time)* _____ *(date)*

24-Hour Forecast	48-Hour Forecast	72-Hour Forecast	24-Hour Forecast
Date	Date	Date	Date
Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? ☐ Yes ☐ No
Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	

If yes and the project is Risk Level 1, complete this form.
If yes and the project is Risk Level 2 or 3, stop here and use form CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."
If no, complete this form.

Sampling Schedule

Based on the weather forecast, stormwater discharge sampling is required to begin on _____ (date) at approximately _____ (time)

Stormwater discharge sampling is required every 24 hours during an extended storm event, so based on the predicted duration of the storm event, it is required on the following dates:

_____ _____ _____ _____ _____ _____

The order in which stormwater discharge sample location will be sampled:

☐ Numeric order by location number
☐ Reverse numeric order by location number
☐ The following specified order _____

Reason for specified sampling order

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Storm Event Sampling and Analysis Plan

Complete "Storm Event Sampling and Analysis Worksheet" to determine sampling locations.

Non-Visible Pollutant Sampling Locatons

Complete worksheet to determine non-visible pollutant sampling locations.

☐ No sampling locations for non-visible pollutants exist for this storm event.

☐ Table 1 shows sampling locations for non-visible pollutants for this storm event.

Table 1: Storm Event Non-Visible Pollutant Sampling Locations

Location Number	Uncontaminated Location Number	Location	Sample Type	Water Quality Indicator Constituent	Analysis

Table 2: Sampling Locations for Storm Event Listed in Numeric Order

Number	Location Number	QCQA	Number	Location Number	QCQA	Number	Location Number	QCQA	Number	Location Number	QCQA
1			4			7			10		
2			5			8			11		
3			6			9			12		

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Storm Event Sampling and Analysis Plan Certification

I certify under penalty of law that this Storm Event Sampling and Analysis Plan was prepared by me or under my direction or supervision. The information contained in the summary was gathered and evaluated by qualified personnel before submittal. Based 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 Clean Water Act (CWA) provides for significant penalties, including fines and imprisonment, for knowingly submitting false material statement, representation, or certification.

Water pollution control manager name	Date
Water pollution control manager signature	

Storm Event Sampling and Analysis Plan Review

Reviewed by resident engineer (name)	Date
Resident engineer signature	

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STORM EVENT SAMPLING AND ANALYSIS WORKSHEETS

Worksheet for Determining Non-Visible Pollutant Storm Event Sampling and Analysis Plan

Determining Non-Visible Pollutant Sampling Locations

Instructions: Enter potential non-visible pollutant sampling locations from SWPPP Attachment EE. From pre-storm site visual monitoring inspection, determine if pollutant source is present, and check the appropriate box. For each potential non-visible sampling location, determine from the pre-storm site visual monitoring inspection if any criteria for triggering sampling and analysis for non-visible pollutant are met, and check the appropriate box in the "Pre-storm site inspection identified trigger for sampling?" column.

The five triggers for sampling non-visible pollutant sampling locations:

1. Materials or waste containing non-visible pollutants are not stored under watertight conditions.
2. Materials or waste containing non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up before the storm event, or (3) the potential for a discharge of non-visible pollutants exists.
3. A construction activity with potential to contribute non-visible pollutants (1) was occurring within 24 hours before the storm event; (2) applicable BMPs were observed to be breached, malfunctioning, or improperly implemented; and (3) the potential for a discharge of non-visible pollutants exists.
4. Soil amendments have been applied, and the potential for a discharge of non-visible pollutants exists.
5. Stormwater runoff from an area contaminated by historic use of the site has the potential to combine with stormwater runoff from the site, and the potential for a discharge of non-visible pollutants exists.

Non-Visible Pollutant Sampling Required?

☐ No—If no pollutant sources are present, sampling stormwater discharges for non-visible pollutants is not required.

☐ No—If pre-storm site visual monitoring inspection identified no triggers, sampling stormwater discharges for non-visible pollutants is not required.

☐ Yes—If the pollutant source is present and the answer to a trigger question is yes, check the box in the "Storm Event Sample Location" column.

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STORM EVENT SAMPLING AND ANALYSIS WORKSHEETS

Table A: Potential Project Site Non-Visible Pollutant Sampling Locations

Location Number	Uncontaminated Location Number	Location	Pollutant Source	Active Pollutant Source		Pre-storm inspection identified trigger for sampling?		Storm Event Sample Location
				Yes	No	Yes	No	

Enter into Table 1 on CEM-2049, "Storm Event Sampling and Analysis Plan," all locations from Table A that have the box in the "Storm Event Sample Location" column checked. Refer to SWPPP Attachment EE to determine pollutant and water quality indicator constituent and SWPPP Section 700.X.X for information to complete Table 1.

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STORM EVENT SAMPLING AND ANALYSIS WORKSHEETS

Worksheet for determining non-visible pollutant storm event sampling and analysis plan for locations Identified by pre-storm site monitoring inspection not shown on SWPPP Attachment EE

Instructions: List any project site non-visible sampling location identified by pre-storm site visual monitoring in Table B not identified in SWPPP Attachment EE Table "Potential Sampling Locations for Non-visible Pollutants." Determine pollutant source, pollutant and water quality indicator constituent and enter the information into Table B.

Table B: Non-Visible Pollutant Sampling Locations Identified by Pre-Storm Site Inspection

Location Number	Uncontaminated Location Number	Location	Pollutant Source	Pollutant	Water Quality Indicator Constituent

Enter the information from Table B into Table 1 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."

GENERAL INFORMATION

FORM

Contract Number/Co/Rte/PM
For local agency encroachment permit projects write the encroachment permit number in the Contract Number field.

Project Identifier Number
Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without a PID, write N/A in the field.

WDID Number
For projects with Water Pollution Control Program, enter "WPCP" in this field.