ADD PAGE

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

WEATHER MONITORING LOG

CEM-2041 (NEW 5/2012)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Lock Data on Form

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

WEEKLY REPORTING PERIOD

Week of ___ / ___ / ___ - ___ / ___ / ___

Weather Information for ___ / ___ / ___

Weather Condition	Temperature	Precipitation Condition	Wind Condition
☐ Clear	Maximum ___ °F	☐ None ☐ Heavy rain	☐ None
☐ Partly Cloudy	Minimum ___ °F	☐ Misty ☐ Hail	☐ Less than 5 mph
☐ Cloudy		☐ Light rain ☐ Snow	☐ Greater than 5 mph
		☐ Rain	

Storm Precipitation Information

Complete the following when there is any precipitation within the 24-hour period.

Storm Event Information

Storm event began? ___ (time) on ___ (date)

Cumulative amount of precipitation from previous day? ___ inches

Storm event ended? ___ (time) on ___ (date)

☐ Extended duration storm event

Time	Project Site Rain Gauge Reading (inches)	Difference From Previous Reading	Cumulative Amount of Precipitation (inches)

What is the cumulative amount of precipitation for storm event to date? ___ inches

What is the 24-hour cumulative amount of precipitation? ___ inches

Is the cumulative amount of precipitation for storm event 1/2 inch or greater? ☐ Yes ☐ No

If yes for risk level 2 and 3 projects are stormwater discharges being sampled and analyzed? ☐ Yes ☐ No

Additional Storm Event Information

Compliance Storm Event		ATS Compliance Storm Event *Complete the following when ATS is used on project site*	
The compliance storm event (5-year, 24-hour storm) for this project site is: ___ inches	Has the storm event exceeded the compliance storm event? ☐ Yes ☐ No	The compliance storm event (10-year, 24-hour storm) for this project site is: ___ inches	Has the storm event exceeded the compliance storm event? ☐ Yes ☐ No

If yes to exceedance of the compliance storm event based on project site rain gauge readings, attach printout of precipitation data from nearest National Weather Service weather station as verification of compliance storm exceedance. Verification of project site compliance storm event exceedance from weather station ___ is based on project site address or latitude and longitude. ___

(NWS) Weather Station

Weather information input by (print name and sign)

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Weather information input by (print name and sign)

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Storm Event Information

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Cumulative amount of precipitation from previous day? ___ inches

Storm event ended? ___ (*time*) on ___ (*date*)

☐ Extended duration storm event

Time	Project Site Rain Gauge Reading (inches)	Difference From Previous Reading	Cumulative Amount of Precipitation (inches)

What is the cumulative amount of precipitation for storm event to date? ___ inches

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Additional Storm Event Information

Compliance Storm Event		ATS Compliance Storm Event *Complete the following when ATS is used on project site*	
The compliance storm event (5-year, 24-hour storm) for this project site is: ___ inches	Has the storm event exceeded the compliance storm event? ☐ Yes ☐ No	The compliance storm event (10-year, 24-hour storm) for this project site is: ___ inches	Has the storm event exceeded the compliance storm event? ☐ Yes ☐ No

If yes to exceedance of the compliance storm event based on project site rain gauge readings, attach printout of precipitation data from nearest National Weather Service weather station as verification of compliance storm exceedance. Verification of project site compliance storm event exceedance from weather station ___ (*NWS) Weather Station* is based on project site address or latitude and longitude. ___

Weather information input by (print name and sign)

WEATHER MONITORING LOG REVIEW

I have reviewed this document and based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, true accurate, and complete.

Water pollution control manager name	National Weather Service precipitation data for compliance storm exceedance attached to this log submittal? ☐ Yes ☐ No
Water pollution control manager signature	Date

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Instructions

GENERAL INFORMATION

- The information shown on this form is required for projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) to document weather forecast for the project site.
- Use this weather monitoring log to record daily weather information for the project site location.
- Complete the weather monitoring log each working day. If the project is a calendar-day project, for example, a seven-working-day week, attach an additional copies of the second page so you can report all seven days.
- Submit Weather Monitoring Logs to the resident engineer within five working days of the ending date shown on the weather monitoring log.
- For verifying exceedance of compliance storm, locate the National Weather Service (NWS) automated weather station nearest the project site. NWS weather station locations are available at: http://www.wrh.noaa.gov/sto/obsmap.php.
- Print out precipitation data for the nearest NWS weather station for any storm event that exceeds the compliance storm event. NWS weather station precipitation data is available at: http://www.cnrfc.noaa.gov/awipsProducts/RNOHYDRSA.php.

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
For projects without a Project Identification Number, write N/A in the field.

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

Enter the project site street address including city and state or the latitude and longitude used to obtain NWS forecast.

Weekly Reporting Period
Enter the first and last working day for the reporting period

Enter precipitation information during working hours at least every two hours.
1. Time
2. Rain gauge reading
3. Storm event cumulative precipitation amount

Using the amounts of precipitation for each two-hour period during working hours and the amount of precipitation during non-working hours to determine the cumulative amount of precipitation for a storm event, and record the amount on the form. Determine if the forecasted cumulative amount of precipitation for the storm event is one-half inch or greater, and check the appropriate box.

Compliance Storm Event
Compliance Storm Event for Risk Level 3 project site discharges is determined by using the following maps:
http://www.wrcc.dri.edu/pcpnfreq/nca5y24.gif
http://www.wrcc.dri.edu/pcpnfreq/sca5y24.gif

ATS Compliance Storm Event
Compliance Storm Event for ATS discharge compliance is determined using the following map:
http://www.wrcc.dri.edu/pcpnfreq/nca10y24.gif
http://www.wrcc.dri.edu/pcpnfreq/sca10y24.gif

If the storm event exceeds the compliance storm event, verification of compliance storm event is required based on nearby governmental rain gauge readings. Enter the project site street address including city and state or the latitude and longitude used to determine the nearest NWS weather station and weather station identification.

Instructions, continued

RAIN GAUGE REQUIREMENTS

- The gauge must be monitored every day when any amount of rain has fallen in the previous 24 hours. The first reading each day should occur at approximately the same time to provide a 24-hour storm amount. Capture precipitation data in the early morning after storm events because accumulated precipitation will quickly evaporate when the weather clears.
- The rain gauge monitoring procedure is as follows:

1. At the specified time of day, read the amount of captured precipitation. The water in the gauge is likely to appear rounded at the surface when observed at eye level—a phenomenon called a *meniscus* caused by water tension. Read the gauge at the center of the meniscus.
2. Record the reading, including units (inches), before removing the gauge from its base. After recording the value, double-check your reading, empty the gauge, and reset it.
3. For additional readings taken during the day, ***do not empty*** the gauge after midday readings. Record the time and the reading on this form. For midday readings, the amount of precipitation entered into the "Project Site Rain Gauge Reading" column is cumulative for the day since the gauge was not emptied during this period.