

Acronyms and Definitions

Acronyms:

AC – Asphalt Concrete

ACL – Administrative Civil Liability

ADL – Aerially Deposited Lead

BAT – Best Available Technology

BCT – Best Conventional Technology

BFM – Bonded Fiber Matrix

BMP – Best Management Practice

CCEP – Construction Compliance Evaluation Plan

CEE – (Caltrans) Chief Environmental Engineer

CFR – Code of Federal Regulations

CFS – Cubic foot per second

CMP - Corrugated Metal Pipe

CSWC – (District) Construction Storm Water Coordinator

CWA – Clean Water Act

DCSWC – (Caltrans) District Construction Storm Water Coordinator

DEPSWC – (Caltrans) District Encroachment Permits Storm Water Coordinator

DEA – Division of Environmental Analysis

DI – Drain inlet

DSA – Disturbed Soil Area

DWR – California Department of Water Resources

EC – Erosion Control

ECB - Erosion Control Blanket

EPA – Environmental Protection Agency

ESA – Environmentally (Ecologically) Sensitive Area

GCASP – General Construction Activities Stormwater Permit

GSRD – Gross Solids Removal Device

Ha – Hectare (1 hectare = 2.471 acres)

HMA – Hot Mix Asphalt

HOV – High Occupancy Vehicle
ICID – Illicit Connection/Illegal Discharge
MEP – Maximum Extent Practicable
MPH – Miles per hour
MS4 – Municipal Separate Storm Sewer System
NCC – Notice of Completion of Construction
NOC – Notice of Construction
NOI – Notice of Intent
NOT – Notice of Termination
NOV – Notice of Violation
NPDES – National Pollutant Discharge Elimination System
NS – Non-Stormwater
NSSP – Non-standard Special Provision
NTU – Nephelometric Turbidity Unit
NWS – National Weather Service
PAM – Polyacrylamide
PCC – Portland Cement Concrete
POTW – Public Owned Treatment Works
PSFM - Polymer Stabilized Fiber Matrix
QA– Quality Assurance
QC – Quality Control
RE – Resident Engineer
RECP - Rolled Erosion Control Product
ROW – Right of way
RUSLE - Revised Universal Soil Loss Equation
RWQCB – Regional Water Quality Control Board
SAP – Sampling and Analysis Plan
SC - Sediment Control
SR – State Route
SS – Standard Specification
SSP – Standard Special Provision
SUSMP – Standard Urban Storm Water Mitigation Plan

SWAT – Storm Water Advisory Team
SWDR - Stormwater Data Report
SWMP - Stormwater Management Plan
SWPPP – Stormwater Pollution Prevention Plan
SWRCB – State Water Resources Control Board
TC – Tracking Control
TDS – Total Dissolved Solids
TMDL – Total Maximum Daily Load
TSD – Transportation, Storage and Disposal
TSS – Total Suspended Solids
WDID – Waste Discharge Identification Number
WDR – Waste Discharge Requirement
WE – Wind Erosion
WM – Waste Management and Material Pollution
WPCD – Water Pollution Control Drawing
WPCP – Water Pollution Control Program
WPCM – Water Pollution Control Manager

Definitions:

303(d) Impaired Water Body List – EPA approved list of water bodies under Section 303(d) of the Clean Water Act that are impaired for sediment, siltation or turbidity. These listed water bodies have a beneficial use that is impaired by one or more pollutants.

Active Areas - Construction areas where soil-disturbing activities have already occurred and continue to occur or will occur during the ensuing 21 days.

Administrative Civil Liability (ACL) – A Water Board enforcement action; monetary penalty.

Annual Compliance Certification – Annual certification of SWPPP required by owner and contractor for Caltrans projects.

Annual Report – Annual report to be prepared by Caltrans as required by their NPDES permit (CAS000003).

Basin Plan – RWQCB plan for the watersheds in their region that includes beneficial uses for waters of the state, water quality objectives and waste discharge requirements.

Beneficial Uses – The beneficial uses of waters in California are activities that range from recreational to agricultural uses, depending on the source of the water.

Best Management Practice (BMP) – Any program, technology, process, siting criteria, operating method, measure, or device that controls, prevents, removes, or reduces pollution.

Bonded Fiber Matrix (BFM) – strands of elongated wood fibers combined with a stabilizing emulsion and water.

Cessation – Discontinuance.

Common Plan of Development – Is generally defined as a contiguous area where multiple, distinct construction activities may be taking place at the same or different times under one plan.

Dewatering Operation – Practices that manage the discharge when water must be removed from a work area.

Discharge – Any release, spill, leak, pump, flow, escape, dumping, or disposal of any liquid, semi-solid or solid substance.

Disturbed Soil Area (DSA) - Areas of exposed, erodible soil, including stockpiles, that are within the construction limits and that result from construction activities (actual surface area and not horizontal projection).

Dust Palliatives - Chemicals or compounds applied to road surfaces to reduce dust created by traffic.

Effluent – Dewatering discharge.

Energy Dissipator – A structure for the purpose of slowing the flow of water and reducing the erosive forces present in any rapid flowing body of water.

Environmental Protection Agency (EPA) – Agency that issued the regulations to control pollutants in storm water runoff discharge (The Clean Water Act and NPDES permit requirements).

Existing Vegetation – Any vegetated area that has not already been cleared and grubbed.

Ground Water – Water which is naturally occurring the earth's surface. Ground water is that situated below the surface of the land, irrespective of its source and transient status.

Hydroconcrete - Combination of organic and inorganic chemicals which react with portland cement to produce more complete hydration, and other unique properties.

Illicit Connections/Illegal Discharges – Non-permitted connections and discharges to the storm drain system.

Impervious – A surface that cannot be easily penetrated; for example, rain does not readily penetrate asphalt or concrete surfaces.

Light Transmission – The ability of light to transmit through water.

Mils – thousandths of an inch (e.g., 10 mils is 10/1,000 inch or 0.010 inch).

Nephelometric Turbidity Unit (NTU) – Measure of turbidity.

Non-Active Areas - Construction areas (formerly active areas) that will be idle for at least 21 days.

Non-Stormwater – Any discharge to a storm drain system or receiving water that is not composed entirely of storm water.

Notice of Violation (NOV) – Highest form of informal enforcement by the Water Boards.

Notice to Comply – A Water Board enforcement action.

Notice of Correction – A Water Board enforcement action.

Permanent Soil Stabilization (SS) BMP – Measures which are installed or constructed to control soil erosion which are maintained after project completion.

Permit – Typically referring to the General NPDES Storm Water permit for Construction (CAS000002).

Pervious – Ability of water to pass through.

Rainy Season – Based on historical precipitation data, the season that rain is most likely.

Receiving Water – Includes dry stream beds and dry lake beds if they are considered Waters of the State or Waters of the U.S.

Regional Water Quality Control Board (RWQCB) – California agencies that implement and enforce Clean Water Act Section 402(p) NPDES permit requirements, and are issuers and administrators of these permits as delegated by the EPA. There are nine regional boards working with the State Water Resources Control Board.

Rill Erosion – The formation of numerous, closely spaced streamlets due to uneven detachment or surface soils by runoff or slopes.

Run-off – Water that flows from the site to an area off-site.

Run-on – Water that flows from off-site onto the project.

Sediment – Soil particles that have been dislodged from their original or placed location and deposited down gradient.

Sediment Control (SC) BMP – Structural measures that are intended to complement and enhance the selected soil stabilization (erosion control) measures and reduce sediment discharges from construction areas.; designed to intercept and settle out soil particles that have been detached and transported by the force of water.

Siltation – The deposition of finely divided soil and rock particles upon the bottom of streams and river beds and in reservoirs.

Small Furrows - Small shallow trenches.

Soil Stabilization (SS) BMP – Also referred to as erosion control, consists of source control measures that are designed to prevent soil particles from detaching and becoming transported in storm water runoff; protect the soil surface by covering and/or binding soil particles.

Caltrans Statewide Permit – The Statewide NPDES Storm Water Permit and Waster Discharge Requirements (WDRs) for the State of California Department of Transportation (Caltrans). Order No. 99-06-DWQ, NPDES No. CAS000003.

State Water Resources Control Board (SWRCB) – The California agency that implements and enforces the Clean Water Act Section 402(p) NPDES permit requirements, is issuer and administrator of these permits as delegated by the EPA. Works with the nine RWQCBs.

Storm Drain System – Streets, gutters, inlets, conduits, natural or artificial drains, channels and watercourses, or other facilities that are owned, operated, maintained and used for the purpose of collecting, storing, transporting, or disposing of storm water.

Stormwater – Rainfall runoff, snow melt runoff, and surface runoff and drainage.

Storm Water Management Plan (SWMP) – The Caltrans policy document that describes how Caltrans will conduct its storm water management activities (i.e. procedures and practices).

Tackifier - A type of material added to produce adhesives that will adhere on contact.

Temporary Soil Stabilization (SS) BMP – Interim control measures which are installed or constructed to control soil erosion and which are not maintained after project completion.

Total Maximum Daily Load (TMDL) – A process that was established by the CWA to guide the application of state water quality standards to individual water bodies and watersheds by defining the amount of particular pollutant that a water body can absorb on a daily basis without violating applicable water quality standards.

Turbidity – Cloudiness of water quantified by the degree to which light traveling through a water column is scattered by the suspended particles it contains. Measured in NTUs.

Vector – Any insect, rodent or other animal of public health significance capable of harboring or transmitting causative agents of disease to humans.

Water Board – The State Water Resources Control Board or Regional Water Quality Control Board.

Waste Discharge Identification Number (WDID) – The unique project number issued by the SWRCB upon receipt of the Notice of Intent (NOI).

Water Pollution Control Manager (WPCM) – The contractor's qualified person responsible for implementing the SWPPP.

Water Pollution Control Program (WPCP) – A Caltrans document that must be prepared and implemented by the construction contractor for construction projects that disturb less than one acre under Standard Specifications Section 7-1.01G – Water Pollution.

Waters of the United States – (a) All waters, which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide; (b) All interstate waters, including interstate wetlands; (c) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or foreign commerce including any such waters: (1) which are or could be used by interstate or foreign travelers for recreational or other purposes; (2) from which fish or shellfish are or could be taken and sold interstate or foreign commerce; or (3) which are used or could be used for industrial purposes by industries in interstate commerce; (d) All impoundments of waters identified in paragraphs (a) through (c) of this definition; (e) The territorial sea; and (f) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (c) of this definition.

APPENDIX 5: Glossary

Active Areas of Construction

All areas subject to land surface disturbance activities related to the project including, but not limited to, project staging areas, immediate access areas and storage areas. All previously active areas are still considered active areas until final stabilization is complete. [The construction activity Phases used in this General Permit are the Preliminary Phase, Grading and Land Development Phase, Streets and Utilities Phase, and the Vertical Construction Phase.]

Active Treatment System (ATS)

A treatment system that employs chemical coagulation, chemical flocculation, or electrocoagulation to aid in the reduction of turbidity caused by fine suspended sediment.

Acute Toxicity Test

A chemical stimulus severe enough to rapidly induce a negative effect; in aquatic toxicity tests, an effect observed within 96 hours or less is considered acute.

Air Deposition

Airborne particulates from construction activities.

Approved Signatory

A person who has been authorized by the Legally Responsible Person to sign, certify, and electronically submit Permit Registration Documents, Notices of Termination, and any other documents, reports, or information required by the General Permit, the State or Regional Water Board, or U.S. EPA. The Approved Signatory must be one of the following:

1. For a corporation or limited liability company: a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (a) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation or limited liability company; or (b) the manager of the facility if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
3. For a municipality, State, Federal, or other public agency: a principal executive officer, ranking elected official, city manager, council president, or any other authorized public employee with managerial responsibility over the

construction or land disturbance project (including, but not limited to, project manager, project superintendent, or resident engineer);

4. For the military: any military officer or Department of Defense civilian, acting in an equivalent capacity to a military officer, who has been designated;
5. For a public university: an authorized university official;
6. For an individual: the individual, because the individual acts as both the Legally Responsible Person and the Approved Signatory; or
7. For any type of entity not listed above (e.g. trusts, estates, receivers): an authorized person with managerial authority over the construction or land disturbance project.

Beneficial Uses

As defined in the California Water Code, beneficial uses of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

Best Available Technology Economically Achievable (BAT)

As defined by USEPA, BAT is a technology-based standard established by the Clean Water Act (CWA) as the most appropriate means available on a national basis for controlling the direct discharge of toxic and nonconventional pollutants to navigable waters. The BAT effluent limitations guidelines, in general, represent the best existing performance of treatment technologies that are economically achievable within an industrial point source category or subcategory.

Best Conventional Pollutant Control Technology (BCT)

As defined by USEPA, BCT is a technology-based standard for the discharge from existing industrial point sources of conventional pollutants including biochemical oxygen demand (BOD), total suspended sediment (TSS), fecal coliform, pH, oil and grease.

Best Professional Judgment (BPJ)

The method used by permit writers to develop technology-based NPDES permit conditions on a case-by-case basis using all reasonably available and relevant data.

Best Management Practices (BMPs)

BMPs are scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures,

and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Chain of Custody (COC)

Form used to track sample handling as samples progress from sample collection to the analytical laboratory. The COC is then used to track the resulting analytical data from the laboratory to the client. COC forms can be obtained from an analytical laboratory upon request.

Coagulation

The clumping of particles in a discharge to settle out impurities, often induced by chemicals such as lime, alum, and iron salts.

Common Plan of Development

Generally a contiguous area where multiple, distinct construction activities may be taking place at different times under one plan. A plan is generally defined as any piece of documentation or physical demarcation that indicates that construction activities may occur on a common plot. Such documentation could consist of a tract map, parcel map, demolition plans, grading plans or contract documents. Any of these documents could delineate the boundaries of a common plan area. However, broad planning documents, such as land use master plans, conceptual master plans, or broad-based CEQA or NEPA documents that identify potential projects for an agency or facility are not considered common plans of development.

Daily Average Discharge

The discharge of a pollutant measured during any 24-hour period that reasonably represents a calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged during the day. For pollutants with limitations expressed in other units of measurement (e.g., concentration) the daily discharge is calculated as the average measurement of the pollutant throughout the day (40 CFR 122.2). In the case of pH, the pH must first be converted from a log scale.

Debris

Litter, rubble, discarded refuse, and remains of destroyed inorganic anthropogenic waste.

Direct Discharge

A discharge that is routed directly to waters of the United States by means of a pipe, channel, or ditch (including a municipal storm sewer system), or through surface runoff.

Discharger

The Legally Responsible Person (see definition) or entity subject to this General Permit.

Dose Rate (for ATS)

In exposure assessment, dose (e.g. of a chemical) per time unit (e.g. mg/day), sometimes also called dosage.

Drainage Area

The area of land that drains water, sediment, pollutants, and dissolved materials to a common outlet.

Effluent

Any discharge of water by a discharger either to the receiving water or beyond the property boundary controlled by the discharger.

Effluent Limitation

Any numeric or narrative restriction imposed on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the contiguous zone, or the ocean.

Erosion

The process, by which soil particles are detached and transported by the actions of wind, water, or gravity.

Erosion Control BMPs

Vegetation, such as grasses and wildflowers, and other materials, such as straw, fiber, stabilizing emulsion, protective blankets, etc., placed to stabilize areas of disturbed soils, reduce loss of soil due to the action of water or wind, and prevent water pollution.

Field Measurements

Testing procedures performed in the field with portable field-testing kits or meters.

Final Stabilization

All soil disturbing activities at each individual parcel within the site have been completed in a manner consistent with the requirements in this General Permit.

First Order Stream

Stream with no tributaries.

Flocculants

Substances that interact with suspended particles and bind them together to form flocs.

Good Housekeeping BMPs

BMPs designed to reduce or eliminate the addition of pollutants to construction site runoff through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions.

Grading Phase (part of the Grading and Land Development Phase)

Includes reconfiguring the topography and slope including; alluvium removals; canyon cleanouts; rock undercuts; keyway excavations; land form grading; and stockpiling of select material for capping operations.

Hydromodification

Hydromodification is the alteration of the hydrologic characteristics of coastal and non-coastal waters, which in turn could cause degradation of water resources. Hydromodification can cause excessive erosion and/or sedimentation rates, causing excessive turbidity, channel aggradation and/or degradation.

Identified Organisms

Organisms within a sub-sample that is specifically identified and counted.

Inactive Areas of Construction

Areas of construction activity that are not active and those that have been active and are not scheduled to be re-disturbed for at least 14 days.

Index Period

The period of time during which bioassessment samples must be collected to produce results suitable for assessing the biological integrity of streams and rivers. Instream communities naturally vary over the course of a year, and sampling during the index period ensures that samples are collected during a time frame when communities are stable so that year-to-year consistency is obtained. The index period approach provides a cost-effective alternative to year-round sampling. Furthermore, sampling within the appropriate index period will yield results that are comparable to the assessment thresholds or criteria for a given region, which are established for the same index period. Because index periods differ for different parts of the state, it is essential to know the index period for your area.

K Factor

The soil erodibility factor used in the Revised Universal Soil Loss Equation (RUSLE). It represents the combination of detachability of the soil, runoff potential of the soil, and the transportability of the sediment eroded from the soil.

Legally Responsible Person

The Legally Responsible Person (LRP) will typically be the project proponent. The categories of persons or entities that are eligible to serve as the LRP are set forth below. For any construction or land disturbance project where multiple persons or entities are eligible to serve as the LRP, those persons or entities

shall select a single LRP. In exceptional circumstances, a person or entity that qualifies as the LRP may provide written authorization to another person or entity to serve as the LRP. In such a circumstance, the person or entity that provides the authorization retains all responsibility for compliance with the General Permit. Except as provided in category 2(d), a contractor who does not satisfy the requirements of any of the categories below is not qualified to be an LRP.

The following persons or entities may serve as an LRP:

1. A person, company, agency, or other entity that possesses a real property interest (including, but not limited to, fee simple ownership, easement, leasehold, or other rights of way) in the land upon which the construction or land disturbance activities will occur for the regulated site.
2. In addition to the above, the following persons or entities may also serve as an LRP:
 - a. For linear underground/overhead projects, the utility company, municipality, or other public or private company or agency that owns or operates the LUP;
 - b. For land controlled by an estate or similar entity, the person who has day-to-day control over the land (including, but not limited to, a bankruptcy trustee, receiver, or conservator);
 - c. For pollution investigation and remediation projects, any potentially responsible party that has received permission to conduct the project from the holder of a real property interest in the land; or
 - d. For U.S. Army Corp of Engineers projects, the U.S. Army Corps of Engineers may provide written authorization to its bonded contractor to serve as the LRP, provided, however, that the U.S. Army Corps of Engineers is also responsible for compliance with the general permit, as authorized by the Clean Water Act or the Federal Facilities Compliance Act.

Likely Precipitation Event

Any weather pattern that is forecasted to have a 50% or greater chance of producing precipitation in the project area. The discharger shall obtain likely precipitation forecast information from the National Weather Service Forecast Office (e.g., by entering the zip code of the project's location at <http://www.srh.noaa.gov/forecast>).

Maximum Allowable Threshold Concentration (MATC)

The allowable concentration of residual, or dissolved, coagulant/flocculant in effluent. The MATC shall be coagulant/flocculant-specific, and based on toxicity

testing conducted by an independent, third-party laboratory. A typical MATC would be:

The MATC is equal to the geometric mean of the NOEC (No Observed Effect Concentration) and LOEC (Lowest Observed Effect Concentration) Acute and Chronic toxicity results for most sensitive species determined for the specific coagulant. The most sensitive species test shall be used to determine the MATC.

Natural Channel Evolution

The physical trend in channel adjustments following a disturbance that causes the river to have more energy and degrade or aggrade more sediment. Channels have been observed to pass through 5 to 9 evolution types. Once they pass through the suite of evolution stages, they will rest in a new state of equilibrium.

Non-Storm Water Discharges

Discharges are discharges that do not originate from precipitation events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

Non-Visible Pollutants

Pollutants associated with a specific site or activity that can have a negative impact on water quality, but cannot be seen through observation (ex: chlorine). Such pollutants being discharged are not authorized.

Numeric Action Level (NAL)

Level is used as a warning to evaluate if best management practices are effective and take necessary corrective actions. Not an effluent limit.

Original Sample Material

The material (i.e., macroinvertebrates, organic material, gravel, etc.) remaining after the subsample has been removed for identification.

pH

Unit universally used to express the intensity of the acid or alkaline condition of a water sample. The pH of natural waters tends to range between 6 and 9, with neutral being 7. Extremes of pH can have deleterious effects on aquatic systems.

Post-Construction BMPs

Structural and non-structural controls which detain, retain, or filter the release of pollutants to receiving waters after final stabilization is attained.

Preliminary Phase (Pre-Construction Phase - Part of the Grading and Land Development Phase)

Construction stage including rough grading and/or disking, clearing and grubbing operations, or any soil disturbance prior to mass grading.

Project

Qualified SWPPP Developer

Individual who is authorized to develop and revise SWPPPs.

Qualified SWPPP Practitioner

Individual assigned responsibility for non-storm water and storm water visual observations, sampling and analysis, and responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

Qualifying Rain Event

Any event that produces 0.5 inches or more precipitation with a 48 hour or greater period between rain events.

R Factor

Erosivity factor used in the Revised Universal Soil Loss Equation (RUSLE). The R factor represents the erosivity of the climate at a particular location. An average annual value of R is determined from historical weather records using erosivity values determined for individual storms. The erosivity of an individual storm is computed as the product of the storm's total energy, which is closely related to storm amount, and the storm's maximum 30-minute intensity.

Rain Event Action Plan (REAP)

Written document, specific for each rain event, that when implemented is designed to protect all exposed portions of the site within 48 hours of any likely precipitation event.

Remaining Sub sampled Material

The material (e.g., organic material, gravel, etc.) that remains after the organisms to be identified have been removed from the subsample for identification. (Generally, no macroinvertebrates are present in the remaining subsampled material, but the sample needs to be checked and verified using a complete Quality Assurance (QA) plan)

Routine Maintenance

Activities intended to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Runoff Control BMPs

Measures used to divert runoff from offsite and runoff within the site.

Run-on

Discharges that originate offsite and flow onto the property of a separate project site.

Revised Universal Soil Loss Equation (RUSLE)

Empirical model that calculates average annual soil loss as a function of rainfall and runoff erosivity, soil erodibility, topography, erosion controls, and sediment controls.

Sampling and Analysis Plan

Document that describes how the samples will be collected, under what conditions, where and when the samples will be collected, what the sample will be tested for, what test methods and detection limits will be used, and what methods/procedures will be maintained to ensure the integrity of the sample during collection, storage, shipping and testing (i.e., quality assurance/quality control protocols).

Sediment

Solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

Sedimentation

Process of deposition of suspended matter carried by water, wastewater, or other liquids, by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.

Sediment Control BMPs

Practices that trap soil particles after they have been eroded by rain, flowing water, or wind. They include those practices that intercept and slow or detain the flow of storm water to allow sediment to settle and be trapped (e.g., silt fence, sediment basin, fiber rolls, etc.).

Settleable Solids (SS)

Solid material that can be settled within a water column during a specified time frame. It is typically tested by placing a water sample into an Imhoff settling cone and then allowing the solids to settle by gravity for a given length of time. Results are reported either as a volume (mL/L) or a mass (mg/L) concentration.

Sheet Flow

Flow of water that occurs overland in areas where there are no defined channels where the water spreads out over a large area at a uniform depth.

Site**Soil Amendment**

Any material that is added to the soil to change its chemical properties, engineering properties, or erosion resistance that could become mobilized by storm water.

Streets and Utilities Phase

Construction stage including excavation and street paving, lot grading, curbs, gutters and sidewalks, public utilities, public water facilities including fire hydrants, public sanitary sewer systems, storm sewer system and/or other drainage improvements.

Structural Controls

Any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution

Suspended Sediment Concentration (SSC)

The measure of the concentration of suspended solid material in a water sample by measuring the dry weight of all of the solid material from a known volume of a collected water sample. Results are reported in mg/L.

Total Suspended Solids (TSS)

The measure of the suspended solids in a water sample includes inorganic substances, such as soil particles and organic substances, such as algae, aquatic plant/animal waste, particles related to industrial/sewage waste, etc. The TSS test measures the concentration of suspended solids in water by measuring the dry weight of a solid material contained in a known volume of a sub-sample of a collected water sample. Results are reported in mg/L.

Toxicity

The adverse response(s) of organisms to chemicals or physical agents ranging from mortality to physiological responses such as impaired reproduction or growth anomalies.

Turbidity

The cloudiness of water quantified by the degree to which light traveling through a water column is scattered by the suspended organic and inorganic particles it contains. The turbidity test is reported in Nephelometric Turbidity Units (NTU) or Jackson Turbidity Units (JTU).

Vertical Construction Phase

The Build out of structures from foundations to roofing, including rough landscaping.

Waters of the United States

Generally refers to surface waters, as defined by the federal Environmental Protection Agency in 40 C.F.R. § 122.2.¹

Water Quality Objectives (WQO)

Water quality objectives are defined in the California Water Code as limits or levels of water quality constituents or characteristics, which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.

¹ The application of the definition of “waters of the United States” may be difficult to determine; there are currently several judicial decisions that create some confusion. If a landowner is unsure whether the discharge must be covered by this General Permit, the landowner may wish to seek legal advice.

APPENDIX 6: Acronym List

ASBS	Areas of Special Biological Significance
ASTM	American Society of Testing and Materials; Standard Test Method for Particle-Size Analysis of Soils
ATS	Active Treatment System
BASMAA	Bay Area Storm water Management Agencies Association
BAT	Best Available Technology Economically Achievable
BCT	Best Conventional Pollutant Control Technology
BMP	Best Management Practices
BOD	Biochemical Oxygen Demand
BPJ	Best Professional Judgment
CAFO	Confined Animal Feeding Operation
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CGP	NPDES General Permit for Storm Water Discharges Associated with Construction Activities
CIWQS	California Integrated Water Quality System
CKD	Cement Kiln Dust
COC	Chain of Custody
CPESC	Certified Professional in Erosion and Sediment Control
CPSWQ	Certified Professional in Storm Water Quality
CSMP	Construction Site Monitoring Program
CTB	Cement Treated Base
CTR	California Toxics Rule
CWA	Clean Water Act
CWC	California Water Code
CWP	Center for Watershed Protection
DADMAC	Diallyldimethyl-ammonium chloride
DDNR	Delaware Department of Natural Resources
DFG	Department of Fish and Game
DHS	Department of Health Services
DWQ	Division of Water Quality
EC	Electrical Conductivity
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
ESA	Environmentally Sensitive Area
ESC	Erosion and Sediment Control
HSPF	Hydrologic Simulation Program Fortran
JTU	Jackson Turbidity Units
LID	Low Impact Development
LOEC	Lowest Observed Effect Concentration
LRP	Legally Responsible Person
LUP	Linear Underground/Overhead Projects

MATC	Maximum Allowable Threshold Concentration
MDL	Method Detection Limits
MRR	Monitoring and Reporting Requirements
MS4	Municipal Separate Storm Sewer System
MUSLE	Modified Universal Soil Loss Equation
NAL	Numeric Action Level
NEL	Numeric Effluent Limitation
NICET	National Institute for Certification in Engineering Technologies
NOAA	National Oceanic and Atmospheric Administration
NOEC	No Observed Effect Concentration
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NTR	National Toxics Rule
NTU	Nephelometric Turbidity Units
O&M	Operation and Maintenance
PAC	Polyaluminum chloride
PAM	Polyacrylamide
PASS	Polyaluminum chloride Silica/sulfate
POC	Pollutants of Concern
PoP	Probability of Precipitation
POTW	Publicly Owned Treatment Works
PRDs	Permit Registration Documents
PWS	Planning Watershed
QAMP	Quality Assurance Management Plan
QA/QC	Quality Assurance/Quality Control
REAP	Rain Event Action Plan
Regional Board	Regional Water Quality Control Board
ROWD	Report of Waste Discharge
RUSLE	Revised Universal Soil Loss Equation
RW	Receiving Water
SMARTS System	Storm water Multi Application Reporting and Tracking System
SS	Settleable Solids
SSC	Suspended Sediment Concentration
SUSMP	Standard Urban Storm Water Mitigation Plan
SW	Storm Water
SWARM	Storm Water Annual Report Module
SWAMP	Surface Water Ambient Monitoring Program
SWMM	Storm Water Management Model
SWMP	Storm Water Management Program
SWPPP	Storm Water Pollution Prevention Plan
TC	Treatment Control
TDS	Total Dissolved Solids

TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
USACOE	U.S. Army Corps of Engineers
USC	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
WDID	Waste Discharge Identification Number
WDR	Waste Discharge Requirements
WLA	Waste Load Allocation
WET	Whole Effluent Toxicity
WRCC	Western Regional Climate Center
WQBEL	Water Quality Based Effluent Limitation
WQO	Water Quality Objective
WQS	Water Quality Standard

Best Management Practice (BMP) Cross Reference

BMP Name	Caltrans Contract Project	Encroachment Permit Project		
	CT SSP	CT SSP	CT BMP	CASQA BMP
Temporary Hydraulic Mulch	07-351, 07-352, 07-381, 07-382	07-351, 07-352, 07-381, 07-382	SS-3	EC-3
Temporary Hydroseed	07-353	07-353	SS-4	EC-4
Temporary Soil Binders	07-371	07-371	SS-5	EC-5
Temporary Tacked Straw	07-354	07-354	SS-6	EC-6
Temporary Erosion Control Blanket	07-390	07-390	SS-7	EC-7
Temporary Cover	07-395	07-395	SS-7	EC-7
Temporary Mulch	07-380	07-380	SS-8	EC-8
Temporary Fiber Roll	07-420	07-420	SC-5	SE-5
Temporary Gravel Bag Berm	07-470	07-470	SC-8	SE-8
Temporary Silt Fence	07-430, 07-432	07-430, 07-432	SC-1	SE-1
Temporary Check Dam	07-415	07-415	SC-4	SE-4
Temporary Straw Bale	07-460	07-460	SC-9	SE-9
Street Sweeping	07-346, 07-360	07-346, 07-360	SC-7	SE-7
Temporary Drain Inlet Protection	07-490	07-490	SC-10	SE-10
Temporary Construction Entrance	07-480	07-480	TC-1	TC-1
Temporary Active Treatment System	07-347	07-347	NS-2	NS-2
Spill Prevention and Control	07-346	07-346	WM-4	WM-4
Material Management	07-346	07-346	WM-2	WM-2
Material Storage	07-346	07-346	WM-1	WM-1
Stockpile Management	07-346	07-346	WM-3	WM-3
Solid Waste Management	07-346	07-346	WM-5	WM-5
Hazardous Waste Management	07-346	07-346	WM-6	WM-6
Contaminated Soil Management	07-346	07-346	WM-7	WM-7

Best Management Practice (BMP) Cross Reference

BMP Name	Caltrans Contract Project	Encroachment Permit Project		
	CT SSP	CT SSP	CT BMP	CASQA BMP
Concrete Waste Management	07-346, 07-405, 07-406, 07-407	07-346, 07-405, 07-406, 07-407	WM-8	WM-8
Liquid Waste Management	07-346	07-346	WM-10	WM-10
Water Control and Conservation	07-346	07-346	NS-1, NS-7	NS-1, NS-7
Illegal Connection and Discharge Detection and Reporting	07-346	07-346	NS-6	NS-6
Vehicle and Equipment Cleaning	07-346	07-346	NS-8	NS-8
Vehicle and Equipment Fueling and Maintenance	07-346	07-346	NS-9, NS-10	NS-9, NS-10
Material and Equipment Use Over Water	07-346	07-346	NS-13	NS-14
Structural Removal Over or Adjacent to Water	07-346	07-346	NS-15	NS-15
Paving, Sealing, Sawcutting and Grinding Operations	07-346	07-346	NS-3	NS-3
Thermoplastic Striping and Pavement Markers	07-346	07-346	NS-3	NS-3
Pile Driving	07-346	07-346	NS-11	NS-11
Concrete Curing	07-346	07-346	NS-12	NS-12
Concrete Finishing	07-346	07-346	NS-14	NS-13
Dewatering	07-346	07-346	NS-2	NS-2

Notes:

CT SSP – Caltrans Standard Special Provision

CT BMP – Caltrans Best Management Practice from the Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual, March 2003.

CASQA BMP – California Stormwater Quality Association Best Management Practice from the California Stormwater Quality Handbook Construction, January 2003.

General Permit for Dewatering by Caltrans Districts

Caltrans District	Regional Water Quality Control Board (RWQCB) Dewatering Permits
1	Region 1 - Order No. R1-2009-0045 Region 5 - Order No. R5-2008-0081
2	Region 1 - Order No. R1-2009-0045 Region 5 - Order No. R5-2008-0081 Region 6 - Order No. R6T-2008-0023
3	Region 5 - Order No. R5-2008-0081 Region 6 - Order No. R6T-2008-0023
4	Region 1 - Order No. R1-2009-0045 Region 2 - Order No. R2-2007-0033 Region 3 - Resolution No. R3-2008-0010, Order No. R3-2006-0063 Region 5 - Order No. R5-2008-0081
5	Region 2 - Order No. R2-2007-0033 Region 3 - Resolution No. R3-2008-0010, Order No. R3-2006-0063 Region 5 - Order No. R5-2008-0081
6	Region 5 - Order No. R5-2008-0081 Region 6 - Order No. R6T-2008-0023
7	Region 3 - Resolution No. R3-2008-0010, Order No. R3-2006-0063 Region 4 - Order No. R4-2008-0032 Region 5 - Order No. R5-2008-0081 Region 6 - Order No. R6T-2008-0023
8	Region 6 - Order No. R6T-2008-0023 Region 7 - No General Dewatering Permit So Far, but will require after November 2009. Region 8 - Order No. R8-2009-0045, R8-2009-0003, R8-2007-0041 Region 9 - Order No. R9-2008-0002, R9-2007-0034
9	Region 6 - Order No. R6T-2008-0023
10	Region 2 - Order No. R2-2007-0033 Region 5 - Order No. R5-2008-0081 Region 6 - Order No. R6T-2008-0023
11	Region 7 - No General Dewatering Permit So Far, but will require after November 2009. Region 9 - Order No. R9-2008-0002, R9-2007-0034
12	Region 8 - Order No. R8-2009-0045, R8-2009-0003, R8-2007-0041 Region 9 - Order No. R9-2008-0002, R9-2007-0034
1-12	Statewide - Water Quality Order 2003-0003 Statewide - NPDES Statewide Storm Water Permit-Cal/Trans 99-06-DWQ

Disclaimer: This list summarizes the State Water Resources Control Board and RWQCB Dewatering Permits effective October 19, 2009. Design Engineers should verify the current permit and review it's condition with the District Stormwater Coordinator or the Regional Water Quality Control Board at each phase in project planning as permits are updated and conditions change.

100.3.2 Amendment Log

INSTRUCTIONS:

- SWPPP amendment(s) prepared and approved as discussed in Section 100.4.1 shall be documented in the Amendment Log and shall be inserted into Attachment DD.
- All amendments shall be dated and listed in the Amendment Log.

Enter the project name, and Caltrans contract number (or Caltrans encroachment permit number) at the top of the form.

Enter the Amendment number, date, brief description, name of person who requested the Amendment and amendment approval date in the table.

EXAMPLE SWPPP AMENDMENT LOG:

Amendment No.	Date	Brief Description of Amendment	Requested By	Approval Date
001	12/10/2000	Grading schedule changed to begin on Feb. 10, 2001, and will include additional 2 acres. Amended water pollution control drawings showing 2 additional acres.	John Doe, Superintendent	12/20/2000

REQUIRED TEXT:

All approved and certified SWPPP amendments shall be shown on the SWPPP Amendment Log in Attachment DD. The amendment log shall include:

- Amendment number;
- Date;
- Requested by;
- Approval date.

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

General Information

Inspector's Name	Date of Inspection
Weather condition <input type="checkbox"/> Clear <input type="checkbox"/> Partly cloudy <input type="checkbox"/> Cloudy	Precipitation condition <input type="checkbox"/> Misty <input type="checkbox"/> Heavy rain <input type="checkbox"/> Light rain <input type="checkbox"/> Hail <input type="checkbox"/> Rain <input type="checkbox"/> Snow
Wind Condition <input type="checkbox"/> None <input type="checkbox"/> Less than 5 mph <input type="checkbox"/> Greater than 5 mph	
Construction Phase <input type="checkbox"/> Highway construction <input type="checkbox"/> Plant establishment <input type="checkbox"/> Suspension of work (inactive site)	Site Information _____ Acres total project area _____ Acres total project disturbed soil area _____ Acres current phase disturbed soil area _____ Acres current phase inactive disturbed soil

Inspection Type <i>Check appropriate box</i>	Storm Information	
<input type="checkbox"/> Weekly <input type="checkbox"/> Quarterly non-stormwater	Time elapsed since last storm _____ days	Precipitation amount from last storm _____ inches
<input type="checkbox"/> Pre-storm	Time storm is expected _____ (time) _____ (date)	Expected precipitation amount _____ inches
<input type="checkbox"/> During storm event	Time elapsed since storm began _____ hours-minutes	Precipitation amount from storm recorded from site rain gauge _____ inches
<input type="checkbox"/> Post storm	Time elapsed since storm _____ hours-minutes	Precipitation amount from storm recorded from site rain gauge _____ inches

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Site Inspection of Best Management Practices, continued

Tracking Controls <input type="checkbox"/> Yes <input type="checkbox"/> No	Do all entrances and exits have tracking controls?		Pavement free from visible sediment tacking? Daily sweeping?		Does sediment need to be removed from rock or ribbed plates?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Wind Erosion Control <input type="checkbox"/> Yes <input type="checkbox"/> No	Water trucks onsite?				Visible dust?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									

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Site Inspection of Best Management Practices, continued

Dewatering Operations <input type="checkbox"/> Yes <input type="checkbox"/> No	Dewatering currently currently active?		Dewatering conform with RWQCB permit?		Dewatering discharge within discharge specified limitations?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Temporary Stream Crossing <input type="checkbox"/> Yes <input type="checkbox"/> No	Constructed as shown on the plane?		Conforms to 404 permit and 1601 permit requirements?		Maintenance or repair required?		Photos?	Comments and required actions	Action No.
Yes	No	Yes	No	Yes	No	Yes			
Location									
Location									
Location									
Location									
Location									
Location									

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Site Inspection of Best Management Practices, continued

Vehicle and Equipment Fueling and Maintenance <input type="checkbox"/> Yes <input type="checkbox"/> No	Located away from drainage courses and water courses?		Areas protected from run on and runoff?		Performed on impermeable surface with berm? If no, drip pans used?		Areas reasonably clean and free of spills, leaks and other material?		Vehicles and equipment inspected daily for leaks? Repair if necessary?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												
Location 3												

Comments and Required Actions	Action No.
Location 1	
Location 2	
Location 3	

Vehicle and Equipment Cleaning <input type="checkbox"/> Yes <input type="checkbox"/> No	Washing areas located away from drainage courses and water courses?		Washing areas protected from run-on and runoff?		Washing performed on impermeable surface with berm?		Washing areas reasonably clean and free of spills, leaks and other material?		Washing limited to water, no soap? Wash water contained for infiltration and evaporation or disposal		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												

Comments and Required Actions	Action No.
Location 1	
Location 2	

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Site Inspection of Best Management Practices, continued

Material Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Located away from drainage courses and water courses?		Areas protected from run on and runoff?		Bagged and boxed materials stored on pallets? Liquid materials in secondary containment?		Areas reasonably clean and free of spills, leaks, and other material?		Is material inventory up to date?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												
Location 3												
Location 4												

	Comments and Required Actions	Action No.
Location 1		
Location 2		
Location 3		
Location 4		

Additional Requirements For Hazardous Material Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Stored in properly labeled containers?		Liquids have secondary containment?		Secondary containment facilities free from spills and rainwater?		Cleanup and spill reporting procedures posted?		Cleanup supplies available and adequate for minor spills?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												

	Comments and Required Actions	Action No.
Location 1		
Location 2		

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Site Inspection of Best Management Practices, continued

Waste Management <input type="checkbox"/> Yes <input type="checkbox"/> No	Are watertight litter containers and dumpsters properly located		Are litter and material waste placed in watertight dumpsters?		Do waste management containers have enough capacity for planned operations?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Concrete Waste Management <input type="checkbox"/> Yes <input type="checkbox"/> No	Are washout facilities functional and identified?		Are concrete washout liners free from punctures and holes?		Is there enough volume and freeboard for planned operations?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									

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Site Inspection of Best Management Practices, continued
For project specific BMPs, insert the BMP name and additional inspection requirements below.

Project-specific BMP <input type="checkbox"/> Yes <input type="checkbox"/> No	Properly located?		Properly installed?		Maintenance or repair needed?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									

Project-specific BMP <input type="checkbox"/> Yes <input type="checkbox"/> No	Properly located?		Properly installed?		Maintenance or repair needed?						Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												
Location 3												
Location 4												

	Comments and Required Actions	Action No.
Location 1		
Location 2		
Location 3		
Location 4		

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Pre-Storm Visual Inspection Requirements

Inspect the following in addition to visual inspection of BMPs to see if they have been properly implemented in accordance with SWPP and REAP:

Drainage Areas	Leaks or spills?		Any uncontrolled pollutant sources?		Stored materials that should be moved?		Photos?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes			
Location 1										
Location 2										
Location 3										
Location 4										
Drainage Discharge Locations	Free of erosion or sediment?				Adequate freeboard for storm event?		Photos?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes			
Location 1										
Location 2										
Location 3										
Location 4										
Desilting Basins and Other Stormwater Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Water retained or stored?		Leaks?		Adequate freeboard for storm event?		Photos?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes			
Location 1										
Location 2										
Desilting Basins and other Stormwater Storage <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants, was sample taken?		Identify source of any observed pollutants.	
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										

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During Storm Visual Inspection Requirements

In addition to visual inspection of BMPs to determine whether they are performing and are adequate, if additional BMPs are needed, or if BMPs need immediate maintenance, inspect the following

Drainage Discharge Locations	Flowing water?		Free of erosion or sediment?		Discharge sample taken?		Run-on sample taken?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										
Location 3										
Location 4										
Location 5										

Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									
Location 4									
Location 5									

Risk Level 3 Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Run-on sample taken?		Upstream or un-gradient receiving water sample taken?		Downstream or downgradient receiving water sample taken?		Comments and required actions
	Yes	No	Yes	No	Yes	No	
Location							
Location							
Location							
Location							

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During Storm Visual Inspection Requirements, continued

Desilting Basins and Other Stormwater Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Flowing water?		Free of erosion or sediment?		Discharge sample taken?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No		
Location 1								
Location 2								
Location 3								

Desilting Basins and Other Stormwater Storage <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									

Non-visible Pollutant Locations <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Inspect locations where disturbed soil or materials are stored or used on sites that contain non-visible pollutants.</i>	Breath malfunction leakage or spill?		Run-on?		Flowing discharge?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No		
Location 1								
Location 2								
Location 3								

Desilting Basins and Other Stormwater Storage <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		Discharge sample taken?		Uncontaminated* sample taken?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Location 1										
Location 2										
Location 3										

*Sample stormwater that has not come in contact with disturbed soil or stored materials or where materials were used on site for comparison with contaminated sample.

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Post Storm Visual Inspection Requirements

Within 48 hours of a qualifying rain event, inspect all BMPs to determine whether BMPs were adequate, implemented and effective and identify any additional BMPs needed. Perform the following visual inspections of the project site

Drainage Discharge Locations	Flowing water?		Free of erosion or sediment?		Discharge sample taken?		Run-on sample taken?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										
Location 3										
Location 4										
Location 5										

Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants, was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									
Location 4									
Location 5									

Risk Level 3 Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Run-on sample taken?		Upstream or un-gradient receiving water sample taken?		Downstream or downgradient receiving water sample taken?		Comments
	Yes	No	Yes	No	Yes	No	
Location							
Location							
Location							

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	WDID NUMBER

Post Storm Visual Inspection Requirements, continued

Desilting Basins and Other Stormwater Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Water retained or stored?		Leaks?				Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Desilting Basins and Other Stormwater Storage <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants, was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									

Non-Visible Pollutant Locations <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Inspect all locations where disturbed soil or materials are stored or used on sites that contain non-visible pollutants.</i>	Breath malfunction, leakage or spill?		Run-on?		flowing discharge?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Non-visible Pollutant Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		Discharge sample taken?		Uncontaminated* sample taken?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Location 1										
Location 2										
Location 3										

*Sample stormwater that has not come in contact with disturbed soil or stored materials or where materials were used onsite for comparison with contaminated sample.

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	WDID NUMBER

Quarterly Non-Stormwater Discharge Visual Inspection Requirements

Conduct one visual inspection quarterly in each of the following periods January-March, April-June, July-September, and October-December.

Drainage Areas	Presence of a non-stormwater discharge?		Indication of a prior non-stormwater discharge?		Date discharge was observed?		Photos?	Source of non-stormwater discharge and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									
Location 4									
Location 5									

Drainage Areas <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		sample taken?*		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										
Location 3										
Location 4										
Location 5										

**Sample non-stormwater discharge at the location where the discharge leaves the jobsite and record location under drainage discharge locations.*

Drainage Discharge Locations	Presence of a non-stormwater discharge?		Indication of a prior non-stormwater discharge?		Date discharge was observed?	Photos?	Source of non-stormwater discharge and required actions	Action No.
	Yes	No	Yes	No		Yes		
Location 1								
Location 2								
Location 3								
Location 4								
Location 5								

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
STORMWATER SITE INSPECTION REPORT

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

Quarterly Non-Stormwater Discharge Visual Inspection Requirements, continued

Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		Discharge sample taken?		Run-on sample taken?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												
Location 3												
Location 4												
Location 5												

Risk Level 3 Drainage Discharge Locations <i>If any water is flowing, report the following.</i>			Upstream or un-gradient receiving water sample taken?		Downstream or down-gradient receiving water sample taken?		Comments
	Yes	No	Yes	No	Yes	No	
Location							
Location							
Location							
Location							
Location							

Illegal Connection or Discharge Detection <i>Observe the jobsite and jobsite perimeter for illegal connections and discharges.</i>	Evidence of illegal connections?		Illegal dumping or discharges onto jobsite?		Engineer notified of illegal connection or discharge?	Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No		Yes		
Location								
Location								
Location								
Location								
Location								

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

Stormwater Inspection Report Certification

I certify under penalty of law that this Stormwater Inspection Report was performed in accordance with the General permit. The information contained in this inspection report was gathered from a field site inspection. I am aware that Section 309 (c)(4) of the Clean Water Act provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation or certification.

Stormwater Inspector Name	Date Report Completed
---------------------------	-----------------------

Stormwater inspector Signature

I certify under penalty of law that this Stormwater Inspection Report was performed in accordance with the General Permit by me or under my direction or supervision. The information contained in this inspection report was gathered and evaluated by qualified personnel prior to 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 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

Stormwater Inspection Report Acceptance

Accepted by Resident Engineer (Name)	Date
--------------------------------------	------

Resident Engineer Signature

General Information

- If the inspection form does not contain enough lines to report all locations on a jobsite, attach additional copies of the form page so that all locations are inspected and reported.
- Obtain forecasted precipitation information from the National Weather Service Forecast Office website, <http://www.srh.noaa.gov/forecast>.
- Weather information should be the best estimate of beginning of the storm event, duration of the event, and time elapsed since the last storm.
- Rainfall amounts should be recorded from the project site rain gauge.

Storm Visual Inspections

- For non-visible pollutant inspections, report on all locations shown in the SWPPP.

Required Actions

- All requiring actions reported on this form must also be reported on form CEM-2035, "Stormwater Site Inspection Report Corrective Actions Summary."
- Locations identified where BMPs are failing or have other shortcomings require implementation of repairs or design changes within 72 hours of identification, and complete BMP repairs or other changes as soon as possible.

NOTICE OF DISCHARGE REPORT

CEM-2061 (NEW 10/2010)

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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

Notice of Discharge General Information

Location			Date discharge discovered	
Discharge identified by stormwater visual site inspection? <input type="checkbox"/> YES <input type="checkbox"/> NO			Discharge type <input type="checkbox"/> Stormwater <input type="checkbox"/> Authorized non-stormwater <input type="checkbox"/> Non-authorized non-stormwater	
Discharge discovered by contractor during daily work? <input type="checkbox"/> YES <input type="checkbox"/> NO			Exceedance of applicable water quality standard <input type="checkbox"/> Turbidity <input type="checkbox"/> pH <input type="checkbox"/> _____	
Discharge samples taken? <input type="checkbox"/> YES <input type="checkbox"/> NO			Date and time water pollution control manager notified of discharge	
Discharge identified by Regional Water Quality Control Board? <input type="checkbox"/> YES <input type="checkbox"/> NO		Date and time resident engineer notified of discharge		
Discharge identified by State Water Resources Control Board? <input type="checkbox"/> YES <input type="checkbox"/> NO				

Storm Event Information*Complete this section for stormwater discharges*

Start of storm event _____ <i>Date</i> _____ <i>Time</i>	End of storm event _____ <i>Date</i> _____ <i>Time</i>	Duration of storm event _____ <i>Hours : Minutes.</i>	Storm event precipitation amount recorded from site rain gauge _____ <i>inches</i>	Storm event precipitation amount recorded from governmental rain gauge _____ <i>inches</i>
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Notice of Discharge Information

The nature and cause of the water quality standard exceedance, base on a visual observation of the discharge location	Photographs <input type="checkbox"/> YES <input type="checkbox"/> NO
BMPs currently installed at the location of the discharge	<input type="checkbox"/> YES <input type="checkbox"/> NO
Additional BMPs that will be implemented to prevent or reduce pollutants causing or contributing to exceedance of a water quality standard	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for additional BMPs	<input type="checkbox"/> YES <input type="checkbox"/> NO
Maintenance or repair of BMPs	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for BMPs maintenance or repair	<input type="checkbox"/> YES <input type="checkbox"/> NO
Other required corrective actions	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for corrective actions	<input type="checkbox"/> YES <input type="checkbox"/> NO
Summary of actions taken to reduce the pollutants causing or contributing to the water quality standard exceedance	

NOTICE OF DISCHARGE REPORT

CEM-2061 (NEW 10/2010)

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

Sampling and Analysis Results
Required when discharge samples are taken

Sample location Identification number	Date of sampling		
Samples collected by	Date of analysis		
Samples analysis by	Date and time water pollution control manager notified of results		
Analyzer phone number	Date and time resident engineer notified of results		
Sample Identification	Sample Collection Time	Storm Event Precipitation Amount at Sample Time	Analysis (_____)

Analysis Information

Meter manufacturer	Model number	Serial number	Calibration date
Analytical method	Method reporting unit	Method detection limit	

*Note: Meter calibration information available in the SWPPP files.***Additional Information**

Run-on samples taken? <input type="checkbox"/> YES <input type="checkbox"/> NO	Run-on sample identification
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Notice of Discharge Report Certification

I certify under penalty of law that this document and all attachments were prepared under my 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, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Water pollution control manager name	Date	
Water pollution control manager signature		
Accepted by resident engineer (name)	Date	
Resident engineer signature		
Discharge reported by telephone or email to the Regional Water Quality Control Board (RWQCB) within 48 hours of discovery? <input type="checkbox"/> YES <input type="checkbox"/> NO	Date discharge reported to RWQCB	Resident engineer initials
Notice of Discharge Report submitted to RWQCB within 14 days (3 days for District 7 and District 11)? <input type="checkbox"/> YES <input type="checkbox"/> NO	Date report submitted to RWQCB	Resident engineer initials

NOTICE OF DISCHARGE REPORT

Instructions

General Information

- This form is required for compliance with provisions in Section C-2, "Receiving Water Limitations for Construction," of the National Pollutant Discharge Elimination System (NPDES) Permit Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans), Order No. 99-06-DWQ, NPDES No. CAS000003.
- This form is to be completed when the contractor, Caltrans, State Water Resources Control Board, or Regional Water Quality Control Board staff determines that stormwater discharges, authorized non-stormwater discharges, or non-authorized, non-stormwater discharges are causing or contributing to an exceedance of an applicable water quality standard.
- Water quality standards are contained in the Statewide Water Quality Control Plan or applicable Regional Water Quality Control Boards (RWQCBs) Basin Plan.
- Sampling guidance is found in the current edition of the *Construction Site Monitoring Program Guidance Manual*.
- Included a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) files.

Form

- **Project Identifier Number**
Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without a number, write N/A in the field.
- **Contract Number/Co/Rte/PM**
For local agency encroachment permit projects, write the encroachment permit number in the contract number field.
- **Storm Event Information**
Leave section blank if box is checked for either authorized or non-authorized non-stormwater discharge.
- **Discharge Information**
Do not leave any subsection blank. Caltrans permit specifically requires Caltrans to submit the information in this section to RWQCBs. For non-stormwater discharges, describe the construction operation or activity that caused the discharge.
- **Sampling and Analysis Results**
Leave this section blank if the no box is checked for discharge samples taken.
- **Analysis Results**
Analytical results less than the method detection limit shall be reported as "Less than the method detection limit."
- **Analysis Information**
Leave section blank if the no box is checked for discharge samples taken?
- **Addition Information**
Leave run-on sample identification blank if no box is checked for run-on samples taken.

STORMWATER TRAINING RECORD

CEM-2023 (NEW 12/2010)

Instructions

GENERAL INFORMATION

- Projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program require the information on this form to document stormwater training for contractor and subcontractor managers, supervisors, and employees. Include the form and required training documentation in the stormwater annual report for SWPPP projects.
- Use this form to document training for employees responsible for activities associated with Construction General Permit compliance and contract specifications. Use this form to document required weekly informal stormwater training.
- Provide this training record and an updated copy of CEM-2024, "Stormwater Training Log," to the resident engineer within five days of the date of training.
- Attach additional copies of page 2 of this form if necessary to record all attendees attending training.

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 PIO, write N/A in the field.
- **WDID Number**
For projects with Water Pollution Control Program, enter "WPCP."
- **Attendee Roster**
Enter employee name, contractor or subcontractor company name and employee phone number.
- **Training Audience**
Enter one of the following responses:

General—Training for individuals responsible for activities associated with compliance with the Construction General Permit.

BMPs—Training for individuals responsible for BMP installation, inspection, maintenance, and repair.

SWPPP—Training for individuals responsible for overseeing revising and amending the SWPPP.