

NAPA COUNTYWIDE STORMWATER POLLUTION PREVENTION PROGRAM EROSION AND SEDIMENT CONTROL PLAN GUIDANCE

For Applicants and Review Staff



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KEY DEFINITIONS

Best Management Practices (BMPs) – Schedules of activities, prohibitions of practices, maintenance procedures, general good housekeeping practices, pollution prevention practices, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, stormwater conveyance systems, or waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste or recycling disposal, or drainage from raw material storage.

Construction Activity – Activities that involve soil disturbance including, but not limited to, clearing, paving, grading, disturbances to ground such as stockpiling, and excavation.

Erosion and Sediment Control Plan (ESCP) – Plans prepared to control erosion and sediment discharges from a construction site.

Erosion Control BMP – Source control practices that protect the soil surface and prevent soil particles from being detached by rainfall, flowing water, or wind.

Grading – Any stripping, cutting, filling, contouring, recontouring or stockpiling of earth or land, including the land in its cut or fill condition.

Phase II Stormwater Permit – Water Quality Order No. 2013-0001—DWQ, General Permit No. CAS000004, and any subsequent amendment, reissuance or successor to this NPDES permit.

Receiving Waters – All waters that are “Waters of the United States” within the scope of the Federal Clean Water Act or “Waters of the State” within the scope of the California Water Code, including but not limited to natural streams, creeks, rivers, reservoirs, lakes, ponds, water in vernal pools, lagoons, estuaries, bays, the Pacific Ocean, and groundwater.

Sediment Control BMP – Practices that trap soil particles after they have been detached and moved by rain, flowing water, or wind.

Storm Drain – includes, but is not limited to, those stormwater drainage conveyance facilities within the city, both public and private, by which stormwater may be conveyed to the waters of the United States, including any roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels or storm drains, which are not part of a publicly owned treated works (POTW) as defined at 40 Code of Federal Regulations (C.F.R.) 122.2, or successor regulation.

Stormwater Pollution Prevention Plan (SWPPP) – A plan that describes the BMPs to be implemented by the owner or operator of a construction site disturbing *one acre or more* to eliminate illicit discharges and/or reduce pollutant discharges to the stormwater conveyance system.

KEY ACRONYMS

BASMAA	Bay Area Stormwater Management Agencies Association
BMP	Best Management Practice
CASQA	California Stormwater Quality Association
CGP	Construction General Permit
ESCP	Erosion and Sediment Control Plan
NCSPPP	Napa Countywide Stormwater Pollution Prevention Program
NPDES	National Pollutant Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan
TTWQ	Threat to Water Quality

I. BACKGROUND

Napa County's receiving waters (e.g., creeks, wetlands, lakes and reservoirs, etc.) are vital to our economy and quality of life. Surface and ground waters in Napa County provide most of the County's drinking and irrigation water supply. Creeks, wetlands, and lakes also provide recreational opportunities for members of the community, such as swimming, boating, fishing, and wildlife viewing. Unfortunately, many of these waters have become degraded or impaired by pollution, reducing their capacity for recreational and municipal uses.

Much of the pollution that enters our surface waters is the result of contaminated stormwater runoff. Stormwater runoff is produced from the accumulation of rainfall following a storm event. This stormwater travels across the land, and as it moves through the environment, the water may become contaminated with pollutants before it meets with other surface or receiving waters.

Stormwater runoff generated from construction sites may be a significant contributor of stormwater pollutants if effective best management practices (BMPs) are not implemented and maintained. For example, construction sites without erosion and sediment control BMPs can discharge up to 15 times the amount of sediment as a construction site with BMPs in place, and up to 100 times the natural background level of erosion¹. Although sediment is the most common pollutant associated with construction activity, other pollutants may be generated, including nutrients, pathogens, oil and grease, fuel, heavy metals, and trash. Furthermore, some materials such as concrete waste can affect the pH of stormwater.

II. PURPOSE

This document prepared by the Napa Countywide Stormwater Pollution Prevention Program (NCSPPP) was developed to assist applicants and municipal review staff in determining whether the local erosion and sediment control requirements apply to the proposed activities. This document provides guidance on preparing and reviewing Erosion and Sediment Control Plans (ESCPs).

NCSPPP is a collaborative effort that helps individual jurisdictions meet regulatory mandates in an efficient manner and provides consistent tools for residents and businesses across the county. Contacts for each local agency are listed in **Table 1**.

Table 1 Local Jurisdiction Stormwater Program Contacts

Contacts	Office Phone
City of American Canyon	(707) 647-4521
City of Calistoga	(707) 942-2828
City of Napa	(707) 257-9267
City of St. Helena	(707) 967-2792
Town of Yountville	(707) 944-2988
Napa County	(707) 253-4892

Practices and requirements identified in this document focus on pollutants associated with the construction phase or ground disturbing phase of projects. A companion document has been prepared to address pollutants associated with land development including changes in the rate and volume of runoff that results from the transformation of pervious areas into impervious hardscapes. Applicants seeking building, grading, or land development approvals should additionally refer to the *BASMAA Post-Construction Manual*, which provides common design guidance for stormwater treatment and control,

¹ Erosion and Sediment Control Field Manual (SFBRWQCB, 2002) and California BMP Handbook, Construction (CASQA, 2009).

including low impact development for projects in jurisdictions throughout the North Bay including Napa, Marin, Sonoma, and Solano Counties.

III. LEGAL FRAMEWORK

With the growing concerns of stormwater pollution, local, state, and federal agencies adopted regulations requiring BMPs to eliminate or control polluted runoff from construction sites. Acting under the Federal mandate and the California Water Code, California requires cities, towns, and counties to regulate construction activities. Additionally the State directly regulates larger construction projects.

In 2013, the State Water Resources Control Board reissued the Phase II Stormwater Permit. This permit continues a progression of increased focus on discharges from construction sites. Provision E.10, Construction Site Stormwater Runoff Control Program, of the Phase II Permit requires Napa municipalities to establish and enforce an erosion and sediment control program to minimize the discharge of sediment and construction related pollutants. This local program is complemented by the State’s Construction General Permit (CGP)² that establishes requirements for projects disturbing one or more acres of land.

Napa municipalities require the use of erosion and sediment control BMPs and have updated their local stormwater water ordinances to establish the authority to implement and enforce the erosion and sediment control program requirements. Relevant local codes for each municipality are listed in **Table 2**.

Table 2 Local Stormwater Ordinances¹

Municipality	Local Code	Municipality	Local Code
City of American Canyon	Chapter 14.28	City of St. Helena	Chapter 13.32
City of Calistoga	Chapter 19.05	Town of Yountville	Chapter 13.120
City of Napa	Chapter 8.36	Napa County	Chapter 16.28
¹ Local codes numbers are occasionally changed and updated. Check with each jurisdiction for the latest code updates.			

IV. PROJECT REVIEW AND PERMITTING PROCESS

All individuals undertaking public or private construction or ground disturbing activities must take steps to prevent the discharge of pollutants resulting from these activities. Specified projects that require local permits or trigger ground disturbance thresholds must prepare plans describing the BMPs that will be implemented. **Table 3** summarizes the general levels of requirements that are further described in this document.

Table 3 Levels of Erosion and Sediment Control Requirements

Activity	Implement BMPs	Develop ESCP	Develop SWPPP
All projects disturbing soil	✓		
Projects subject to a local building and/or grading permit¹	✓	✓	
• Issued Grading Permit	✓	✓	
• Issued Building Permit within 50 ft. of storm drain	✓	✓	

² National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities, 2009-0009-DWQ amended by 2010-0014-DWQ & 2012-0006-DWQ.

Table 3 Levels of Erosion and Sediment Control Requirements

Activity	Implement BMPs	Develop ESCP	Develop SWPPP
• Issued Building Permit disturbing ≥10,000 ft. of soil	✓	✓	
• Issued Building Permit and installing new storm drains that discharge to the storm drain system or a watercourse	✓	✓	
• Issued Building Permit on slopes ≥ 5%	✓	✓	
Projects designated by the local official	✓	✓	
Projects disturbing ≥1 acre of land	✓	✓	✓
¹ Public projects that would have required a building or grading permit had it been a private project are also subject to the BMP and ESCP requirements.			

To encourage consistency in the erosion and sediment control requirements, NCSPPP developed an ESCP template (**Appendix A**) for use by project applicants and for municipal staff reviewing and approving ESCPs.

The steps in this section describe the process of determining which projects must develop ESCPs.

Step 1: Determine Applicable Erosion and Sediment Control Requirements

Prior to application for a building or grading permit, applicants must determine whether their project is subject to the local or state erosion and sediment control requirements. If subject to these requirements an ESCP must be submitted and approved by the local jurisdiction before the local permit will be issued.

If you determine your project meets the ESCP criteria listed in **Table 3** you may confirm the determination with the local jurisdiction or proceed by preparing and submitting an ESCP with your permit application. Permits will not be issued until the ESCP is approved.

Although public projects do not obtain building or grading permits, public projects that would have been subject to these permits had they been private projects must develop ESCPs. Agencies proposing public projects that meet the ESCP criteria listed in **Table 3** must prepare ESCPs for review and approval.

Public or private projects that disturb one acre or more of soil are subject to the State’s CGP. In this circumstance, the Stormwater Pollution Prevention Plan (SWPPP) developed pursuant to the CGP may substitute for the ESCP. These projects must apply for and comply with all requirements of the CGP. For more information on the CGP see:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

If an ESCP is not required but there will be ground disturbance, BMPs are still required. NCSPPP developed BMP brochures provide information on BMPs that may be used to protect water quality (**Appendix B**).

Step 2: Prepare and Submit Appropriate Plans

Once the applicant has determined their project is subject to the erosion and sediment control requirements, the applicant must prepare an ESCP prior to submitting a building or grading permit application. If the project is additionally subject to the State’s CGP, the SWPPP may be prepared and submitted in lieu of the ESCP.

The purpose of the ESCP is to:

1. Identify potential pollutant sources that may affect the quality of stormwater runoff discharges from the project site.
2. Document the Best Management Practices (BMPs) that will be installed and maintained to prevent construction site pollutants from leaving the site and entering the storm drain system during

construction.

3. Document erosion control, sediment control, and good housekeeping BMPs that must be implemented year round as appropriate based on construction activities.

The NCSPPP ESCP template, provided in **Appendix A**, facilitates the preparation and review of the required ESCP. The template was designed to meet the local and Phase II Stormwater Permit requirements. Use of the template is strongly encouraged. Further instructions for developing an ESCP, including BMP guidelines and information, are provided in **Section IV** of this document.

The ESCP template is designed to gather the following information:

1. Description of the proposed project and soil disturbing activity.
2. Site specific construction-phase BMPs.
3. Rationale for selecting the BMPs, including if needed, soil loss calculations.
4. List of applicable permits associated with the soil disturbing activity, such as: CGP; Clean Water Act Section 404 Permit; Clean Water Act Section 401 Water Quality Certification; Streambed/Lake Alteration Agreement (1600 Agreements).
5. Proof that the applicant has obtained the applicable permits associated with the soil disturbing activity must be submitted prior to approval of the ESCP.
6. Project information:
 - a. Owner and contractor contact information
 - b. Site information (location, status, size of project, size of disturbed area)
 - c. Name and distance to nearest receiving water
 - d. Planned start date and anticipated completion date (as may be revised from time to time).

The ESCP must be submitted with the building or grading permit application for review and approval by the local jurisdiction.

Step 3: Local Review and Approval of Submitted ESCPs

Local jurisdictions will review the applicant's ESCP. Municipal staff will use the ESCP template to document their review and identify revisions that may be required. Once the local jurisdiction finds the ESCP meets the local requirements it will approve the ESCP. Permits will not be issued until the ESCP has been approved.

After the ESCP has been approved, any subsequent modifications to the approved ESCP prior to or during construction must be resubmitted for approval by the local jurisdiction.

When a SWPPP is submitted in lieu of an ESCP, the local jurisdiction will review and approve the relevant sections of the SWPPP. For these projects SWPPP modifications must also be approved by the local jurisdiction.

Step 4: Implementation and Inspection

The applicant is responsible for ensuring the approved ESCP or SWPPP is implemented on the project site. Local jurisdictions will inspect the project to confirm that the ESCP is being followed and to assess whether pollutants are being discharged or have the potential to be discharged from the site.

Local jurisdictions may inspect sites at random intervals or for cause (e.g., a complaint). As required by the Phase II Stormwater Permit all projects subject to the ESCP requirements are assigned a threat to water quality (TTWQ). Local jurisdictions use the TTWQ to prioritize projects for inspection. The inspection frequencies shown in **Table 4** are minimum inspection frequencies.

A copy of an example inspection form that is used by municipal agencies is included in **Appendix C**. Project applicants can use this form to conduct their own inspections.

Table 4 TTWQ Factors and Inspection Frequency

	Low	Medium	High	
TTWQ Factors				
	<ul style="list-style-type: none"> Projects requiring a grading permit or an ESCP. 	<ul style="list-style-type: none"> Projects disturbing soil between 10,000 sf and less than one acre. Projects on slopes 5-29% Projects installing new storm drains that discharge to storm drainage system or a creek 	<ul style="list-style-type: none"> Projects disturbing soil 1 acre or more. Projects on slopes 30% or greater. 	
Inspection Frequencies				
Inspection Frequency	Before	<ul style="list-style-type: none"> Inspect all projects that plan to work during the rainy season prior to initiating soil disturbing activities. 	<ul style="list-style-type: none"> Inspect all projects that plan to work during the rainy season prior to initiating soil disturbing activities. 	<ul style="list-style-type: none"> Inspect all projects prior to soil disturbing activities.
	During		<ul style="list-style-type: none"> Inspect once per year during active construction. If active construction includes work in the rainy season, this inspection should be timed to occur during the rainy season. 	<ul style="list-style-type: none"> Inspect once per year during active construction. If active construction includes work in the rainy season, this inspection should be timed to occur during the rainy season.
	After	<ul style="list-style-type: none"> Inspect following active construction. 	<ul style="list-style-type: none"> Inspect following active construction. 	<ul style="list-style-type: none"> Inspect following active construction.
Rainy Season = October 15 through April 1				

V. EROSION AND SEDIMENT CONTROL PLAN GUIDANCE

The ESCP template was designed as a tool for applicants to develop the required ESCP and as a means to facilitate review of the plans by municipal staff. This section provides guidance for applicants completing the template. The ESCP template is provided in **Appendix A**. Section-by-section instructions correspond to the template and are provided below.

Template Section 1 – Tracking Documentation

Official Use Only Section – Applicants do not complete. This section will be used by the local jurisdiction to track information about its review and approval of the ESCP.

Template Section 2 – Staff Comments

Official Use Only Section – Applicants do not complete. This section will be used by the local jurisdiction to document comments on the ESCP.

Template Section 3 – Project Information

Applicants complete this section. This section is designed to identify basic project information for the ESCP. Guidance for completing this section can be found in **Table 5**.

Table 5 Project Information Guidance

Information Category	Guidance
Project Name	Applicant's name for the project.
Tract Number	Insert the property tract number.
Assessor's Parcel Number	Insert the assessor's parcel number.
Location	Describe the location such that municipal staff can find the project site. Generally the project address, but in cases where an address has not been assigned milepost markers, cross streets, or latitude and longitude can be used.
Area of Disturbance (in acres or square feet)	Insert the total area that will be subject to soil disturbing activities. Soil disturbing activities include, but are not limited to, clearing, grading, paving, disturbances to ground such as stockpiling, and excavation. Note if the total area of disturbance is one acre (43,560 sf) or more, the project is subject to the State's CGP. (See Table 7 for more information.)
Total Project Size (in acres or square feet)	List the total size of the project, typically the size of the parcel(s). The total size of the project can exceed the total area of disturbance.
Nearest Receiving Water	List the nearest receiving water body that the project will drain into. In cases where this is the municipal storm drainage system, list the receiving water that the storm drainage system drains into. Drainage information can be obtained from a topographic map, such as a USGS Quad Map or commercial maps such as the <i>Northern California Atlas & Gazetteer</i> (Delorme). Information on the storm drainage system may also be available from the Public Works Department.
Planned Project Start Date	List the date construction activities will commence. Note you must notify the local jurisdiction of any changes to the planned dates. In some cases date changes may require the applicant to update the ESCP, e.g., change of project from summer to winter construction.
Planned Grading Completion Date	List the date when grading/ground disturbing activities will be completed. This date may be the same as the project completion date, but grading is sometimes completed before structure interiors are completed. Note you must notify the local jurisdiction of any date changes. In some cases date changes may require the applicant to update the ESCP, e.g., change of project from summer to winter grading.
Planned Project Completion Date	List the date when the project will be completed. Project completion means all disturbed soils have been stabilized, all construction activities are complete, and all construction materials and wastes have been removed from the site. The applicant should be advised to notify the municipality if the date changes. In some cases, date changes may require the applicant to update the ESCP, e.g., change of project from summer to winter construction.
Project Description and Purpose	Provide a short narrative description of the project. Include the nature of the construction activities and why the project is being undertaken.

Template Section 4 – Applicant Information

Applicants complete this section. This section provides information on the parties responsible for the construction activity, including the contractor and the property owner. **Table 6** provides guidance on the information required to complete this section.

Table 6 Applicant Information Guidance

Information Category	Guidance
Project Owner (Name, Address, Phone)	List the contact information for the land owner.
Contractor (Name, Address, Phone, 24/7 Contact Number)	List the contact information for the person or company performing the work. In cases where the land owner is performing the work, list the land owner. A 24/7 number must be provided in case of off-hours emergencies.
Applicant Certification	Complete certification if required by the local jurisdiction. Certification that the information is accurate and the ESCP will be implemented. Either the owner or contractor may sign this depending on the requirements of the municipality.

Template Section 5 – Other Permits Required

Applicants complete this section. The ESCP must identify whether other permits that affect water courses or water quality are required. The municipality, at their discretion, may review and/or approve the ESCP before the final authorizations of other permits are received by the applicant. However, the applicant must submit proof that all permits have been obtained before the grading or building permit can be issued. The most common permits that may be required, and links to their locations, are provided in **Table 7**.

Table 7 Other Permits Guidance

Permit	Guidance
Construction General Permit (CGP)	Issued by the State Water Resources Control Board for construction activities that disturb one acre or more of land and in some cases for smaller projects that are part of a common plan of development. For more information see: http://www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml
Section 404 Permit	Issued by the U.S. Army Corps of Engineers, San Francisco District for projects affecting waters of the U.S. including wetlands. For more information see: http://www.spn.usace.army.mil/Missions/Regulatory/RegulatoryOverview.aspx
Section 401 Water Quality Certification	In most cases this is the companion permit issued by the San Francisco Bay Regional Water Quality Control Board whenever the U.S. Army Corps of Engineers issues a Section 404 Permit. Occasionally, the San Francisco Bay Regional Water Quality Control Board will issue Waste Discharge Requirements in lieu of a Section 401 Certification. For more information see: http://www.waterboards.ca.gov/water_issues/programs/cwa401/
Streambed/Lake Alteration Agreement (1600 Agreements)	The California Department of Fish and Wildlife issues streambed alteration agreements for projects that will affect a stream or lake. In general, a permit will be required for any work that will obstruct or divert the natural flow of a river, stream, or lake; change or use any material from the bed, channel, or bank of a river, stream, or lake; or deposit or dispose of debris, waste where it can pass into a river, stream, or lake. For more information see: http://www.dfg.ca.gov/habcon/1600/

Table 7 Other Permits Guidance

Permit	Guidance
Sensitive Domestic Water Supply Drainages	Napa County established protection of Sensitive Domestic Water Supply Drainages within the county. Title 18.108.027 of the County Municipal Code limits vegetation clearing and requires winter season shutdown of grading operations. For more information see: https://library.municode.com/index.aspx?clientId=16513&stateId=5&stateName=California
Other water quality or water course protection permits	List any local permits required for the protection of water quality, creeks, and water courses.

Template Section 6 – Site Plan and BMP Implementation Schedule

Applicants complete this section. This section is a checklist to confirm that the ESCP includes a site plan, showing BMP locations, and a BMP implementation schedule. Guidance for each of these requirements is provided in **Table 8**.

Table 8 Site Plan and BMP Implementation Schedule Guidance

Item	Guidance
Site Plan	Show the project site and scope of construction activity. If needed applicants may use multiple maps to depict information. Plans should conform to jurisdiction requirements (e.g., size, scale) for site plan submitted for Grading and Building permits. The site plan and project description in Section 2 of the ESCP should agree. Creek setbacks and areas where existing vegetation will be preserved should be shown on the site plan.
BMP Locations	Show locations of proposed construction activity BMPs on the site plan. Some BMPs may be included as notes on the site plan.
BMP Implementation Schedule	Provide a schedule that identifies when BMPs will be implemented. BMPs need to be implemented with the commencement of the construction activities, and must be implemented year round, as appropriate, until the project is complete.

Template Section 7 – BMP Information

Applicants complete this section. The ESCP must include BMPs that control erosion, prevent sediment discharge, and prevent the discharge of construction materials and wastes from the project site. The applicant must provide a rationale for the BMPs selected. If requested by the local jurisdiction, the applicant may need to provide soil loss calculations to support the selected BMPs.

The ESCP template uses the NCSPPP recommended BMPs to minimized pollutants discharged from construction sites as the baseline. Applicants need to confirm whether there are additional or alternate BMPs required by the local jurisdiction. **Table 9** provides a description for BMPs included in the ESCP template. For further information on BMPs, the related California Stormwater Quality Association (CASQA) BMP Factsheets are identified.

Additional or alternative BMPs may be warranted by site conditions and planned construction activities, and are subject to the discretion of the municipal review staff. Projects subject to other permits (such as those listed in **Section 5**) must implement BMPs required by those permits.

Table 9 BMP Information Guidance

Erosion Control BMPs	
Creek Setback	Local ordinances may contain creek setback requirements limiting grading and/or building within creekside buffers.
Preserve Existing Vegetation	Existing vegetation should be preserved as much as possible. Related CASQA BMP Factsheet: EC-2.
Track Walk Slopes	During grading phase, track-walk up and down slopes (not parallel to them). Related CASQA BMP Factsheet: EC-15.
Soil Cover	Cover all exposed soil with straw mulch and tackifier (or equivalent). Related CASQA BMP Factsheets: EC-3, EC-5, EC-6, EC-7, EC-8, EC-14, and EC-16.
Erosion Control Blankets or equivalent	Install erosion control blankets (or equivalent) on any disturbed site with 3:1 slopes or steeper, keyed into the ground at least 3 inches. Avoid the use of blankets with plastic netting. Erosion control blankets used for permanent stabilization or those that will be left in place at the completion of the project <u>may not</u> contain plastic nets. Related CASQA BMP Factsheet: EC-7.
Revegetation	Areas of disturbed soil/vegetation should be revegetated as soon as practical. Related CASQA BMP Factsheet: EC-4.
Sediment Control BMPs	
Stabilized Site Entrance	Stabilize site entrance and temporary driveway. Use 3 to 4-inch crushed rock for a minimum of 50 feet (or as far as possible) to prevent tracking soil offsite. This can be used in conjunction with a tire wash or rumble plates. Related CASQA BMP Factsheets: TC-1; TC-3.
Fiber Rolls (e.g., Straw Wattles)	Use fiber rolls along contours of short slopes or slopes 3:1 or flatter, keyed into ground at least 3-inches deep (typically 25 feet apart). Avoid the use of rolls with plastic netting. Fiber rolls used for permanent stabilization or those that will be left in place at the completion of the project <u>may not</u> contain plastic nets. Related CASQA BMP Factsheet: SE-5.
Silt Fence	Install silt fence along contours as <u>secondary</u> measure to keep sediment onsite and to minimize vehicle and foot traffic beyond limits of site disturbance. Silt fencing must be keyed in. Related CASQA BMP Factsheet: SE-1.
Drain Inlet Protection	Use woven fabric bags (e.g., polypropylene) bags filled with gravel free of sediment. Install around drain inlets located both onsite and in gutter as a <u>last line of defense</u> . Account for ponding that will occur. Do not stack higher than curb line. Leave gap in top layer as a spill way for severe storms. Related CASQA BMP Factsheet: SE-10 and SE-6.
Good Housekeeping and Material and Waste Management BMPs	
Concrete Washout	Construct a concrete washout site. Clean as needed and remove at end of project. Related CASQA BMP Factsheet: WM-8.
Stockpile Management	Cover all stockpiles and landscape material and berm properly with straw wattles or gravel bags. Keep behind silt fence, away from water bodies. Related CASQA BMP Factsheet: WM-3.
Hazardous Material and Refuse Management	Hazardous materials and refuse must be kept in closed containers that are covered and utilize secondary containment, not directly on soil. Related CASQA BMP Factsheet: WM-6.
Sanitary Waste Management	Place potable sanitary facilities within secondary containment, behind the curb and away from gutters, storm drain inlets, and water bodies. Related CASQA BMP Factsheet: WM-9.
Equipment and Vehicle Maintenance	Prevent equipment fluid leaks onto ground by placing drip pans or plastic tarps under equipment. Repair equipment as necessary. Related CASQA BMP Factsheets: NS-8, NS-9, and NS-10.

VI. REFERENCES AND BMP RESOURCES

- Bay Area Stormwater Management Agencies Association (2014). Post-Construction Manual Design Guidance for Stormwater Treatment and Control for Projects in Marin, Sonoma, Napa, and Solano Counties. Available on-line at: <http://www.basmaa.org/BoardandCommittees/Phasell.aspx>.
- California Stormwater Quality Association (2009; Rev 2012). *Stormwater Best Management Practice Handbook: Construction*. Available by subscription at: <http://www.casqa.org>.
- Goldman, Steven J., et al. (1986). *Erosion and Sediment Control Handbook*.
- San Francisco Bay Regional Water Quality Control Board (2002). *Erosion and Sediment Control Field Manual*.
- State of California Department of Transportation (2003). *Stormwater Quality Handbook: Construction Site Best Management Practices (BMPs) Manual*. CTSW-RT-03-071.33.40. Available on-line at: http://www.dot.ca.gov/hq/construc/stormwater/CSBMPPM_303_Final.pdf.
- State Water Resources Control Board (2009). Order 2009-0009-DWQ, as amended by Order 2010-0014-DWQ, and Order 2012-0006-DWQ NPDES General Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. Available on-line at: http://www.swrcb.ca.gov/board_decisions/adopted_orders/water_quality/wqo09.shtml.
- State Water Resources Control Board (2013). Order 2013-0001-DWQ, NPDES General Permit No. CAS000004: Waste Discharge Requirements for Discharges of Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4s). Available on-line at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml.
- United States Environmental Protection Agency (2007). *Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Site*. USEPA 833-R-06-004. Available on-line at: <http://cfpub.epa.gov/npdes/stormwater/swppp.cfm>.

APPENDIX A EROSION AND SEDIMENT CONTROL PLAN TEMPLATE

Erosion and Sediment Control Plan

3. Project Information

Official Use Only			Applicant Complete this Section
Yes	No	Comments	
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Project Name:</u>
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Tract Number:</u>
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Assessor's Parcel Number:</u>
D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Location:</u>
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Name and Distance to Nearest Receiving Water:</u>
F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Area of Disturbance (in acres or square feet):</u>
G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Total Project Size (in acres or square feet):</u>
H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Planned Project Start Date:</u>
I	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Planned Grading Completion Date:</u>
J	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Planned Project Completion Date:</u>
K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <u>Project Description and Purpose:</u>

Erosion and Sediment Control Plan

4. Identify Other Permits or Controls Required

Identify whether other permits or local controls that affect water courses or water quality are required. Attach proof that the necessary permits have been applied for and obtained. Grading/Building Permits will not be issued until proof is submitted that these other permits have been obtained or that local controls have been satisfied.

Official Use Only			Applicant Complete this Section		
Yes	No	Comments	Permit/Agreement	Attached	
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction General Permit (CGP) <input type="checkbox"/> Not Applicable <input type="checkbox"/> Applicable	<input type="checkbox"/> Proof of submission <input type="checkbox"/> Proof permit was obtained
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Section 404 Permit <input type="checkbox"/> Not Applicable <input type="checkbox"/> Applicable	<input type="checkbox"/> Proof of submission <input type="checkbox"/> Proof permit was obtained
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Section 401 Water Quality Certification <input type="checkbox"/> Not Applicable <input type="checkbox"/> Applicable	<input type="checkbox"/> Proof of submission <input type="checkbox"/> Proof permit was obtained
D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Streambed/Lake Alteration Agreement (1600 Agreements) <input type="checkbox"/> Not Applicable <input type="checkbox"/> Applicable	<input type="checkbox"/> Proof of submission <input type="checkbox"/> Proof permit was obtained
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Napa County Sensitive Domestic Water Supply Drainages <input type="checkbox"/> Not Applicable <input type="checkbox"/> Applicable	<input type="checkbox"/> Proof requirements were satisfied
F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other: (Identify) <i>List any specific permits required by the local, state, federal, or regional agencies</i> <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> Proof of submission <input type="checkbox"/> Proof permit was obtained

Erosion and Sediment Control Plan

5. Site Plan and BMP Implementation Schedule

Official Use Only			Applicant Complete this Section		
	Yes	No	Comments		
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site Plan	Attach site plan and list relevant plan sheets depicting the project site and scope of construction. Show any creek setbacks and areas where existing vegetation will be preserved on the site plans.
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BMP Locations	Attach site plan and list relevant plan sheets depicting locations of and types of proposed BMPs. Some BMPs may be included as notes on the site plan.
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BMP Implementation Schedule:	Identify schedule for BMP implementation with the commencement of the construction activities and that BMPs will be implemented year round, as appropriate, until the project is complete. Include final site stabilization in the schedule. The schedule may be shown on the site plan(s) or as a separate document.

Erosion and Sediment Control Plan

6. BMP Information

Identify and describe the BMPs that will be implemented for the project. At a minimum, the ESCP must include the NCSPPP minimum erosion control, sediment control, and good housekeeping BMPs. Provide a rationale for the selected BMPs, including if needed, soil loss calculations. Use the rationale to demonstrate that the selected control measures are appropriate site specific BMPs.

Official Use Only			Applicant Complete this Section	
Yes	No	Comments	BMP	Rationale
			EROSION CONTROL BMPS	
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preserve Existing Vegetation
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Track Walk Slopes
				<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Erosion Control Blankets or equivalent
				<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable

Erosion and Sediment Control Plan

Official Use Only			Applicant Complete this Section	
Yes	No	Comments	BMP	Rationale
D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			Soil Cover	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			Revegetation	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
			SEDIMENT CONTROL BMPS	
F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			Stabilized Site Entrance	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			Fiber Rolls, (e.g., Straw Wattles)	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable

Erosion and Sediment Control Plan

Official Use Only			Applicant Complete this Section	
Yes	No	Comments	BMP	Rationale
H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Silt Fence	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	
I	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Drain Inlet Protection	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	
GOOD HOUSEKEEPING, MATERIALS AND WASTE MANAGEMENT BMPs				
J	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Concrete Washout	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	
K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Stockpile Management	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	

Erosion and Sediment Control Plan

Official Use Only			Applicant Complete this Section	
Yes	No	Comments	BMP	Rationale
L	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Hazardous Material and Refuse Management	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	
M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Sanitary Waste Management	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	
N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Equipment and Vehicle Maintenance	
			<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable	

Erosion and Sediment Control Plan

Official Use Only			Applicant Complete this Section	
Yes	No	Comments	BMP	Rationale
			OTHER BMPS, LIST:	
O	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 10px;"/> <input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 10px;"/> <input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 10px;"/> <input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<hr style="border: 0; border-top: 1px solid black; margin-bottom: 10px;"/> <input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable

Duplicate this page if needed to describe additional BMPS

APPENDIX B NCSPPP BMP BROCHURES

Best Management Practices for EROSION AND SEDIMENT CONTROL

Below are the minimum maintenance practices recommended by the NCSPPP to avoid or minimize pollutants discharged to waterways. By following them you can help protect water quality in our streams and comply with local, state, and federal regulations. The local agency may require additional BMPs.

Stormwater runoff from construction activities can have a significant impact on water quality. As stormwater flows over a construction site, it can pick up pollutants such as sediment, debris, and chemicals and transport these to a nearby storm sewer system or directly to a water body. Polluted stormwater runoff and sedimentation can harm or kill fish and other wildlife, destroy aquatic habitat, and cause stream bank erosion. The diagram below shows the menu of maintenance practices that are suggested as needed when clearing, grading, or excavating 1 acre or less of land. The numbers on the diagram correspond to the numbered BMPs listed below.

(1) Check with your local planning and public works departments for creek setback requirements. Grading and/or building may be limited within creekside buffers.

(2) During grading phase, track-walk up and down slopes (not parallel to them).

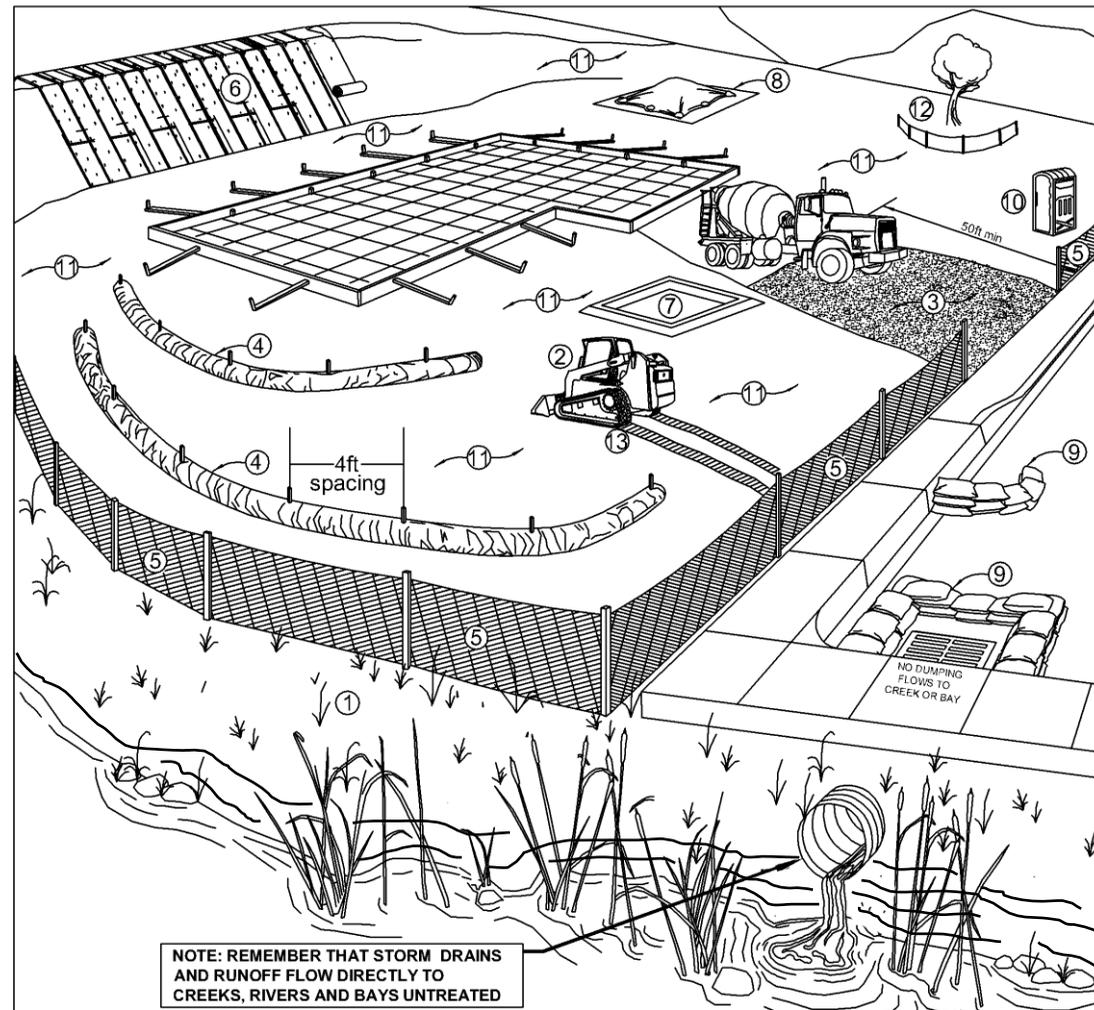
(3) Stabilize site entrance and temporary driveway – use 3-4" crushed rock for a minimum of 50' (or as far as possible) to prevent tracking soil offsite. This can be used in conjunction with a tire wash or rumble plates.

(4) Use straw wattles along contours of short slopes or slopes 3:1 or flatter, keyed into ground at least 3" deep (typically 25' apart).

(5) Install silt fence along contours as secondary measure to keep sediment onsite and to minimize vehicle and foot traffic beyond limits of site disturbance. Silt fencing must be keyed in.

(6) Install erosion control blankets (or equivalent) on any disturbed site with 3:1 slopes or steeper, keyed into the ground at least 3".

(7) Construct a concrete washout site adjacent to stabilized entrance. Clean as needed and remove at end of project.



(8) Cover all stockpiles and landscape material and berm properly with straw wattles or sand bags. Keep behind silt fence, away from water bodies. Hazardous materials and refuse must be kept in closed containers that are covered and utilize secondary containment, not directly on soil.

(9) Use pea-gravel bags, (or similar product) around drain inlets located both onsite and in gutter as a last line of defense.

(10) Place port-a-potty with secondary containment near stabilized site entrance, behind the curb and away from gutters, storm drain inlets, and water bodies.

(11) Cover all exposed soil with straw mulch and tackifier (or equivalent).

(12) Existing vegetation should be preserved as much as possible. Areas of disturbed soil/vegetation should be revegetated as soon as practical.

(13) Prevent equipment fluid leaks onto ground by placing drip pans or plastic tarps under equipment. Repair equipment as necessary.

To report stormwater pollution violations, contact your local Coordinator or any of the following:

You may call the Stormwater Hotline for the local jurisdiction to report an illicit discharge or a potential illicit discharge. Please provide a detailed account of the incident (i.e., date, time, location, responsible party, nature of the incident) when you call to report an illicit discharge.

American Canyon (707) 647-4550
Napa (707) 257-9600
Yountville (707) 944-8851 or
944-2988 after hours
St. Helena (707) 967-2792 or
967-2850 after hours
Calistoga (707) 942-2828
Napa County (707) 299-1799
(unincorporated)

California Department of Fish & Game
(888) 334-2258

California Regional Water Quality Control Board – San Francisco Bay Region
(510) 622-2300

Contact your local Fire or Police (911) if there is a hazardous spill or emergency to report.

Napa Countywide Stormwater Pollution Prevention Program Members:



Only Rain Down the Drain

In Napa County, all storm drains (the drains in streets) flow directly to creeks or other waterways with no treatment!



In response to federal and state regulations and requirements, the municipalities in Napa County have joined to form the:

Napa Countywide Stormwater Pollution Prevention Program (NCSPPP)

In addition to reviewing their own practices that may harm water quality, the NCSPPP agencies have launched a public education campaign and inspection program to raise public awareness about stormwater pollution and to reduce the amount of pollutants discharged from residential and commercial sources.

For more information, call the NCSPPP Stormwater Program Manager at (707) 253-4823 or visit: www.countyofnapa.org/Stormwater



Erosion and Sediment Control Measures for Construction Projects



Best Management Practices to Protect Water Quality



Napa Countywide Stormwater Pollution Prevention Program

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Erosion and Sediment Control Measures for Construction Projects



Best Management Practices to Protect Water Quality



Napa Countywide Stormwater Pollution Prevention Program

APPENDIX C NCSPPP INSPECTION FORM



GENERAL INFORMATION

Inspector: Date: Time Start: Time End: Weather:
Project Name/Address/Location: WDID:
Inspection Type: Non-Storm Winterization Pre-Storm During Storm Post-Storm Complaint
Site Representative: Phone: Email:
QSP Name: QSP Phone: QSP Email:

BEST MANAGEMENT PRACTICE EVALUATION

Items requiring correction and/or maintenance constitutes an Order to Comply and shall initiate necessary corrective actions within 72 hours and complete corrective actions within 10 days.

1. Run-on Management BMPs [X] Yes [] No
Add Item BMP Effective? Violation(s) noted
Location 1:
1.1 Is Diversion of Run-on implemented
1.2 Is Surface Roughening Implemented
General comments
2. Erosion Control BMPs [X] Yes [] No
Add Item BMP Effective? Violation(s) noted
Location 1:
2.1 Is Temporary slope stabilization implemented
2.2 Is Temporary Flat Lot stabilization implemented
2.3 Is Permanent slope stabilization Implemented
2.4 Is Permanent flat lot stabilization Implemented
General comments
3. Sediment Control BMPs [X] Yes [] No
Add Item BMP Effective? Violation(s) noted
Location 1: 2091 Big Ranch Rd
3.1 Permanent flat lot stabilization
3.2 Is Fiber roll implemented
3.3 Is Perimeter Control implemented
3.4 Is Outlet Protection implemented
3.5 Is Stabilized CST Entrance implemented
3.6 Is Check Dams implemented
3.7 Is Sediment Basin implemented
3.8 Is Sediment Trap implemented
3.9 Is Dust Control implemented
3.10 Is Storm Water Inlet Protection implemented
General comments



4. Material Management & Non-stormwater BMPs Yes No

Add Item BMP Effective? Violation(s) noted

Location 1: 2091 Big Ranch Rd X

Table with 3 columns: Question (4.1-4.11), BMP Effective?, Violation(s) noted. Rows include: 4.1 Is Street Sweeping implemented, 4.2 Is Waste Collection / Litter implemented, 4.3 Is Concrete Wash-out implemented, 4.4 Is Construction Material Storage implemented, 4.5 Is Hazardous Material Storage implemented, 4.6 Is Stockpile Management implemented, 4.7 Is Vehicle and Equipment Fueling implemented, 4.8 Is Vehicle and Equipment Maintenance implemented, 4.9 Is Spill kit on site, 4.10 Are Portable Toilet maintained, 4.11 Is Dewatering Operations implemented.

General comments

5. Post construction BMPs Yes No

Add Item BMP Effective? Violation(s) noted

Location 1: X

Table with 3 columns: Question (5.1-5.2), BMP Effective?, Violation(s) noted. Rows include: 5.1 Were Post Construction BMPs Implemented?, 5.2 Were Sensitive Areas Protected?

General comments

6. Illicit Discharge: Complaint Potential Observed Turbidity (NTU): Outfall Upstream Downstream

7.1. Verification of Compliance with Statewide Construction General Permit (CGP)

SWPPP on site? Yes No

7.2. Verification of Compliance with City Stormwater Runoff Pollution/Erosion and Sediment Control Requirements

ESCP on site? Yes No

ISSUES ADDRESSED

Table with 4 columns: Section#, Location, Date issue addressed, Description

Outreach Materials Provided: No Yes

Enforcement Actions: None/In Compliance Verbal Notice Order to Comply Stop Work Order/Notice of Violation Letter

Referred to: Phone:

General Comments

Blank box for general comments



Signatory Requirements

- I have received a copy of this Stormwater Inspection Checklist which confirms compliance with stormwater regulation on the date of the inspection.
- I have received a copy of this Stormwater Inspection Checklist which constitutes an Order to Comply with the corrective actions described above. The corrective actions identified above will be considered and acted upon by

Print **Inspector**

Print **Property Owner or Representative**

Signature **Date**

Signature **Date**



1. PROJECT NAME _____

GENERAL PHOTOS

Category

Location

Comments:

EROSION AND SEDIMENT CONTROL/SWPPP PLAN NOTES



THE FOLLOWING NOTES REPRESENT MINIMUM ENFORCEMENT NOTES.
THE DEVELOPER IS RESPONSIBLE TO ENFORCE THE BEST MANAGEMENT PRACTICES
AT THE SITE ALONG WITH OTHER SOURCES.

1. IN CASE OF EMERGENCY, CALL RESPONSIBLE PERSON AT (24 -HOUR TELEPHONE.
PLEASE FILL IN NAME & NUMBER
2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY CITY OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICES EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
9. STORMWATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE QUALIFIED SWPPP DEVELOPER/FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
10. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET-FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.

EROSION AND SEDIMENT CONTROL/SWPPP PLAN NOTES



13. CONTRACTOR TO FOLLOW CITY OF NAPA STANDARDS AND SPECIFICATIONS 1.10.02 WATER POLLUTION CONTROL.
14. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
15. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
16. DEVELOPERS/CONTRACTORS/QUALIFIED SWPPP DEVELOPERS (QSD)/ QUALIFIED SWPPP PRACTITIONER (QSP), ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY, IF THERE IS A 50% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE CITY OFFICIAL (SELF-INSPECTION CHECK LIST AND INSPECTION LOGS PER STATE SWPPP REQUIREMENTS). INCIDENTS OF NON-COMPLIANCE MUST BE REPORTED TO THE FIELD ENGINEER.
17. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
18. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
19. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
20. PROVIDE STORMWATER CONVEYANCE SYSTEM STENCILING AND SIGNAGE FOR BOTH PRIVATE DEVELOPMENT AND PUBLIC RIGHT OR WAY.
 1. PROVIDE CONCRETE STAMPING, OR EQUIVALENT, OF ALL STORMWATER CONVEYANCE SYSTEM INLETS AND CATCH BASINS WITHIN THE PROJECT AREA WITH PROHIBITIVE LANGUAGE (E.G., "NO DUMPING DRAINS TO NAPA RIVER").
 2. POST SIGNS AND PROHIBITIVE LANGUAGE AND/OR GRAPHICAL ICONS, WHICH PROHIBIT ILLEGAL DUMPING AT PUBLIC ACCESS POINTS ALONG CHANNELS AND CREEKS WITHIN THE PROJECT AREA, TRAILHEADS, PARKS, BUILDING ENTRANCES AND BIORETENTION FACILITIES.

THE FOLLOWING BMPs FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" – NOVEMBER 2009, OR LATEST EDITION, OR EQUAL, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE. ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS. ONLY INCLUDE BMP'S REFERENCED PROJECT ON THE SITE MAP.



EROSION CONTROL

1. EC1 – SCHEDULING
2. EC2 – PRESERVATION OF EXISTING VEGETATION
3. EC3 – HYDRAULIC MULCH
4. EC4 – HYDROSEEDING
5. EC5 – SOIL BINDERS
6. EC6 – STRAW MULCH
7. EC7 – GEOTEXTILES & MATS
8. EC8 – WOOD MULCHING
9. EC9 – EARTH DIKES AND DRAINAGE SWALES
10. EC10 – VELOCITY DISSIPATION DEVICES
11. EC11 – SLOPE DRAINS
12. EC12 – STREAMBANK STABILIZATION
13. EC13 – POLYACRYLAMIDE

TEMPORARY SEDIMENT CONTROL

1. SE1 – SILT FENCE
2. SE2 – SEDIMENT BASIN
3. SE3 – SEDIMENT TRAP
4. SE4 – CHECK DAM
5. SE5 – FIBER ROLLS
6. SE6 – GRAVEL BAG BERM
7. SE7 – STREET SWEEPING AND VACUUMING
8. SE8 – SANDBAG BARRIER
9. SE9 – STRAW BALE BARRIER
10. SE10 – STORM DRAIN INLET PROTECTION

WIND EROSION CONTROL

WE1 – WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

1. TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT
2. TC2 – STABILIZED CONSTRUCTION ROADWAY
3. TC3 – ENTRANCE/OUTLET TIRE WASH

NON-STORMWATER MANAGEMENT

1. NS1 – WATER CONSERVATION PRACTICES
2. NS2 – DEWATERING OPERATIONS
3. NS3 – PAVING AND GRINDING OPERATIONS
4. NS4 – TEMPORARY STREAM CROSSING
5. NS5 – CLEAR WATER DIVERSION

EROSION AND SEDIMENT CONTROL/SWPPP PLAN NOTES



6. NS6 – ILLICIT CONNECTION/DISCHARGE
7. NS7 – POTABLE WATER/IRRIGATION
8. NS8 – VEHICLE AND EQUIPMENT CLEANING
9. NS9 – VEHICLE AND EQUIPMENT FUELING
10. NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
11. NS11 – PILE DRIVING OPERATIONS
12. NS12 – CONCRETE CURING
13. NS13 – CONCRETE FINISHING
14. NS14 – MATERIAL AND EQUIPMENT USE
15. NS15 – DEMOLITION ADJACENT TO WATER
16. NS16 – TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

1. WM1 – MATERIAL DELIVERY AND STORAGE
2. WM2 – MATERIAL USE
3. WM3 – STOCKPILE MANAGEMENT
4. WM4 – SPILL PREVENTION AND CONTROL
5. WM5 – SOLID WASTE MANAGEMENT
6. WM6 – HAZARDOUS WASTE MANAGEMENT
7. WM7 – CONTAMINATION SOIL MANAGEMENT
8. WM8 – CONCRETE WASTE MANAGEMENT
9. WM9 – SANITARY/SEPTIC WASTE MANAGEMENT
10. WM10 – LIQUID WASTE MANAGEMENT

