

SUPPLEMENTAL SPECIAL PROVISIONS

APPENDIX C

DRAFT

**WATER POLLUTION CONTROL
PROGRAM (WPCP)**

SUPPLEMENTAL SPECIAL PROVISIONS

Appendix C

DRAFT
WATER POLLUTION CONTROL
PROGRAM (WPCP)

THE FOLLOWING WPCP IS PROVIDED FOR THE CONTRATOR'S USE IN ASSEMBLING THE PROJECT WPCP IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS. ADDITIONAL GUIDANCE, WPCP TEMPLATES, AND WPCP ATTACHMENTS TO ASSIST THE CONTRACTOR CAN BE FOUND FROM CALTRANS AT:

<http://www.dot.ca.gov/hq/construc/stormwater/templates.htm>

WATER POLLUTION CONTROL PROGRAM (WPCP)
for
DOWNTOWN SAN DIEGO QUIET ZONE PROJECT

Contract Number:
INSERT CONTRACT NUMBER-THEN TAB TO NEXT FIELD.

Prepared for:
CENTRE CITY DEVELOPMENT CORPORATION
401 B Street, Suite 400
San Diego, CA 92101-5074
Scott Johnson
619-235-2200

Submitted by:
Insert Contractor's Company Name-then TAB.
Insert Address 1 and press ENTER for Address 2 or TAB to next field.-then TAB.
Insert City, State, ZIP-then TAB.
Insert Telephone-then TAB.
Insert Owner/Representative's Name-then TAB.

Project Site Address
City of San Diego, CA
619-235-2200

Contractor's Water Pollution Control Manager
DOWNTOWN SAN DIEGO QUIET ZONE
Insert Telephone Number(s)-then TAB.

Contractor's Designated Water Pollution Control Inspector (if different from WPCM)
Insert Inspectors Name-then TAB.
Insert Telephone Number(s)-then TAB.

WPCP Prepared by:
Insert Company Name-then TAB.
Insert Address 1 and press ENTER to insert Address 2 or TAB to next field.
Insert City, State, ZIP-then TAB.
Insert Telephone-then TAB.
Insert Name and Title of Preparer-then TAB.

WPCP Preparation Date
Mo/Day/2010

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Attachment F	Discharge Reporting Log
Attachment G	Trained Contractor Personnel Log
INSERT ADDITIONAL ATTACHMENT REFERENCES OR DELETE THIS LINE	

Section 10

WPCP Certification and Approval

10.1 Contractor's Certification and Approval by the Resident Engineer

CONTRACTOR'S CERTIFICATION OF WPCP

"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure 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, the information submitted, to the best of my knowledge and belief is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature

Date

Name and Title

Telephone Number

Is a Local Agency / Private Entity administering the project?

Yes No

For Use by Local Agency / Private Entity Only

LOCAL AGENCY / PRIVATE ENTITY RESIDENT ENGINEER'S APPROVAL OF WPCP

I, and/or personnel acting under my direction and supervision, have reviewed this WPCP and find that it meets the requirements set forth in the Special Provisions, the Caltrans SWPPP and WPCP Preparation Manual, and the Standard Specifications Section 7-1.01G - Water Pollution.

Resident Engineer's Signature

Date of WPCP Approval

Resident Engineer's Name (printed)

Resident Engineer's Phone Number

For Use by CCDC Only

CCDC OVERSIGHT ENGINEER'S CONCURRENCE OF WPCP

I, and/or personnel acting under my direction and supervision, have reviewed this WPCP and concur with the Resident Engineer's findings that it meets the requirements set forth in the Special Provisions, the Caltrans SWPPP and WPCP Preparation Manual, and Caltrans Standard Specifications Section 7-1.01G - Water Pollution.

CCDC Project Manager's Signature

Date of WPCP Concurrence

CCDC Project Manager's Name

CCDC Project Manager's Phone Number

Section 20

Project Information

1. Introduction and Project Description:

The project consists of the establishment of railroad quiet zones in the city of San Diego. This will include pavement removal and replacement, concrete removal and replacement, signing and striping removal and installation, traffic signal construction, railroad equipment removal and installation, storm drain installation and modification and other civil improvements throughout the city of San Diego in and around the railroads tracks, trolley lines and their adjacent street intersections.

2. Unique Site Features:

The North San Diego Bay is located immediately west of the project site. There are no other unique site features within or adjacent to the project site boundary.

3. Project Schedule (graphical):

[Specific BMP dates are to be provided by the Contractor in an amendment]

<u>Date</u>	<u>Activity/Event</u>
10/01/__	200_-200_ rainy season begins.
__/__/__	Start mobilization of equipment and materials.
__/__/__	Start implementation of temporary soil stabilization, sediment control, and non-storm water Best Management Practices (BMPs). Continue to implement and maintain temporary BMPs throughout rainy season.
05/01/__	200_-200_ rainy season ends. Continue implementing non-storm water BMPs.
06/15/__	WPCP Annual Certification due.
10/01/__	200_-200_ rainy season begins. Start implementation of temporary soil stabilization, sediment control, and non-storm water Best Management Practices (BMPs). Continue to implement and maintain temporary BMPs throughout rainy season.
05/01/__	200_-200_ rainy season ends. Continue implementing non-storm water BMPs.
06/15/__	WPCP Annual Certification due.
10/01/__	200_-200_ rainy season begins.
__/__/__	Project complete.

4. Potential Pollutant Sources:

This section lists the primary construction activities, related materials, and wastes that have the potential to contribute pollutants, including sediment, to storm water runoff.

Construction materials that have the potential to contribute pollutants other than sediment to storm water runoff include:

- b) Slurries from mortar mixing and PCC saw-cutting and placement.
- c) Temporary on-site storage of construction materials, including mortar mix, raw landscaping, soil stabilization material and treated lumber.
- d) General site litter.
- e) Equipment operation and maintenance.
- f) Treated wood products.
- g) Sanitary wastes.
- h) Fertilizers, herbicides and pesticides.

Construction activities that have the potential to contribute sediment to storm water runoff include:

- a) Clearing and grubbing operations
- b) Soil disturbing activities and resulting exposed soil areas, including grading areas, landscaping and trenching operations.

INSERT GRAPHICAL WATER POLLUTION CONTROL SCHEDULE

Section 30

Pollution Sources and Control Measures

30.1 Soil Stabilization (Erosion Control) and Sediment Control

30.1.1 Soil Stabilization BMPs

The following soil stabilization BMP implementation table indicates the BMPs that shall be implemented to control erosion on the construction site. Implementation and locations of temporary soil stabilization BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details can also be found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

- **Disturbed Soil Area (DSA):** Areas of exposed, erodible soil that are within the construction limits and that result from construction activities. The following are considered DSAs:
 - Areas where soil stabilization, erosion control, highway planting, or slope protection are applied and associated drainage facilities are in place and functional.
 - Roadways, construction roads, access roads or contractor's yards that have been stabilized by the placement of compacted subbase or base material or paved surfacing.
 - Areas where construction has been completed in conformance with the contract plans and permanent erosion control is in place and functional.
- **Active DSA:** Construction areas where soil-disturbing activities have already occurred and continue to occur, or will occur, during the ensuing 21 days.
- **Non-active DSA:** Construction areas (formerly active areas) that will be idle for at least 21 days.
- **Slope Length:** Measured or calculated along the continuous inclined surface. Each discrete slope is between one of the following: top to toe; top to bench; bench to bench; or bench to toe.

TEMPORARY SOIL STABILIZATION BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽³⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
SS-1	Scheduling	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SS-2	Preservation of Property/ Preservation of Existing Vegetation	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SS-3	Temporary Hydraulic Mulch (Bonded Fiber Matrix)	✓ ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
	Temporary Hydraulic Mulch (Polymer Stabilized Fiber Matrix)	✓ ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SS-4	Temporary Erosion Control (With Temporary Seeding)	✓ ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SS-5	Temporary Soil Stabilizer	✓ ⁽²⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SS-6	Temporary Erosion Control (Straw Mulch with Stabilizing Emulsion)	✓ ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SS-7	Temporary Erosion Control Blanket (On Slope)	✓ ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
	Temporary Erosion Control Blanket (In swale or ditch)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SS-7	Temporary Cover (Plastic Covers)	✓ ⁽²⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SS-8	Temporary Mulch (Wood)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SS-9	Earth Dikes / Drainage Swales & Lined Swales		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SS-10	Outlet Protection / Velocity Dissipation Devices		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TEMPORARY SOIL STABILIZATION BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽³⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
SS-11	Slope Drains		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Needed
SS-12	Streambank Stabilization		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
ALTERNATIVE SOIL STABILIZATION BMPs USED⁽⁴⁾ <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						IF USED, STATE REASON
Notes: ⁽¹⁾ The BMP designations (SS-1, SC-3, etc.) are solely for maintaining continuity with existing Caltrans documents and are not provided to imply that the Construction Site BMP Reference Manual is a required contract document. ⁽²⁾ The Contractor shall ensure implementation of one of the two measures listed or a combination thereof to achieve and maintain the contract's rainy and non-rainy season requirements. ⁽³⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be determined by the Contractor and approved by the Resident Engineer. ⁽⁴⁾ Use of alternative BMPs will require written approval by the Resident Engineer.						

■ **SS-1 Scheduling**

Year-round the Contractor shall reduce the discharge of pollutants to storm drain facilities or watercourses caused by construction activities by scheduling said activities in a manner that will limit exposure of disturbed soil to wind, rain, and storm water run-on and runoff.

■ **SS-2 Preservation of Existing Vegetation**

Year-round the Contractor shall protect and preserve existing vegetation in work areas as long as practicable before disturbing them. The Contractor shall also preserve and protect existing vegetation adjacent to work areas. The protection and preservation of such vegetation will serve to control erosion and filter out sediment.

■ **SS-5 Temporary Soil Stabilizer**

Year-round the Contractor shall implement these measures to stabilize work done in graded work areas. This shall be implemented where grading will resume shortly and is only to be used for short term temporary protection.

- **SS-9 Earth Dikes/Drainage Swales and Ditches**

Year-round the Contractor shall implement one or more of these measures to intercept, divert and convey surface run-on around or through the construction site to avoid swales/channels under construction, or will be diverted to an infiltration area upstream of the swales/channels under construction.

30.1.2 Sediment Control BMPs

The following sediment control BMP implementation table indicates the BMPs that shall be implemented to control sediment on the construction site. Implementation and locations of temporary sediment control BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details can also be found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

TEMPORARY SEDIMENT CONTROL BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽³⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
SC-1	Temporary Silt Fence	✓ ⁽²⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SC-2	Temporary Sediment Basin		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SC-4	Temporary Check Dam		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SC-5	Temporary Fiber Rolls	✓ ⁽²⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SC-6	Temporary Gravel Bag Berm		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SC-7	Street Sweeping	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SC-8	Temporary Sandbags		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SC-9	Temporary Straw Bale Barrier		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
SC-10	Temporary Drain Inlet Protection	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ALTERNATIVE SEDIMENT CONTROL BMPs USED⁽⁴⁾						IF USED, STATE REASON
<input type="checkbox"/> Yes <input type="checkbox"/> No						
Notes: ⁽¹⁾ The BMP designations (SS-1, SC-3, etc.) are solely for maintaining continuity with existing Caltrans documents and are not provided to imply that the Construction Site BMP Reference Manual is a required contract document. ⁽²⁾ The Contractor shall ensure implementation of one of the two measures listed or a combination thereof to achieve and maintain the contract's rainy and non-rainy season requirements. ⁽³⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be determined by the Contractor and approved by the Resident Engineer. ⁽⁴⁾ Use of alternative BMPs will require written approval by the Resident Engineer.						

■ **SC-1 Silt Fence/SC-8 Sandbag Barrier**

Linear barriers will be installed to provide sediment control for DSAs.

During the rainy season, linear barriers will be constructed for the following areas:

- For non-active DSAs with slope lengths >3m and slope inclinations >1:20 (V:H), BMPs will be implemented within 14 days of the cessation of construction activities, or 24 hours prior to a forecasted storm.
- For active DSAs with slope lengths >3m and slope inclinations >1:20 (V:H), BMPs will be implemented prior to a forecasted storm.
- As downgradient perimeters of DSAs.

Linear barriers are not required during the non-rainy season.

■ **SC-4 Check Dams**

At appropriate locations, check dams will be used to decrease storm water flow velocities to reduce the erosive effects of the storm water. The check dams will allow sediment to fall out of suspension. Check dams will not be installed in swales, check dams will be installed within the swales to intercept and slow water draining through the swale.

■ **SC-5 Temporary Fiber Rolls**

At appropriate locations, temporary check dams will be used along the top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow. This BMP will be used in conjunction with all additional BMP's.

■ **SC-7 Street Sweeping and Vacuuming**

The Contractor will implement street sweeping and vacuuming, as necessary, to control sediment that is tracked from the project site onto public or private roads. This will limit the amount of sediment that may be transported to storm drains or watercourses.

■ **SC-10 Temporary Drain Inlet Protection**

The Contractor will implement storm drain inlet protection at all drain inlets within the project site and any potential inlets that may be contacted by construction debris or runoff. The temporary drain inlet protection will allow sediment to settle and/or to filter prior to discharge of storm water into storm water systems or watercourses.

30.1.3 Tracking Control BMPs

The following tracking control BMP implementation table indicates the BMPs that shall be implemented to reduce sediment tracking from the construction site onto private or public roads. Implementation and locations of tracking control BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details can also be found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

TEMPORARY TRACKING CONTROL BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
SC-7	Street Sweeping		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TC-1	Temporary Construction Entrance		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TC-2	Stabilized Construction Roadway		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable
TC-3	Temporary Entrance / Outlet Tire Wash		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable
ALTERNATIVE TRACKING CONTROL BMPs USED⁽²⁾ <input type="checkbox"/> Yes <input type="checkbox"/> No						IF USED, STATE REASON

Notes:
⁽¹⁾ The BMP designations (SS-1, SC-3, etc.) are solely for maintaining continuity with existing Caltrans documents and are not provided to imply that the Construction Site BMP Reference Manual is a required contract document.
⁽²⁾ Use of alternative BMPs will require written approval by the Resident Engineer.

- **SC-7 Street Sweeping and Vacuuming**

Street sweeping and vacuuming will be provided year-round for all points of ingress and egress to the project site where vehicles and/or equipment may track sediment onto public and/or private roads.

- **TC-1 Stabilized Construction Entrance/Exit**

Stabilized construction entrances/exits will be constructed at various locations throughout the project. The site exit point will be stabilized to reduce tracking of sediment as a result of construction traffic. The exit points will be designated and will be graded to prevent runoff from leaving the site. Stabilization material will be 6-inch aggregate. The exit will be flared where it meets the existing road to provide an adequate turning radius. As construction progresses and additional exit points are implemented by the Contractor, these points will be shown on the appropriate WPCSs.

30.1.4 Wind Erosion Control BMPs

The following wind erosion control BMP implementation table indicates the BMPs that shall be implemented to control wind erosion on the construction site. Implementation and locations of wind erosion control BMPs are shown on the WPCDs in Attachment A and/or described in this section. The BMP working details can be found in Attachment A. The following list of BMPs and narrative explain how the selected BMPs shall be incorporated into the project.

TEMPORARY WIND EROSION CONTROL BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽²⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
WE-1	Wind Erosion Control	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TC-1	Temporary Construction Entrance		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable
TC-2	Stabilized Construction Roadway		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
-----	All Soil Stabilization Measures included in Section 500.3.4		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ALTERNATIVE WIND EROSION CONTROL BMPs USED⁽³⁾						IF USED, STATE REASON
<input type="checkbox"/> Yes <input type="checkbox"/> No						
Notes: ⁽¹⁾ The BMP designations (SS-1, SC-3, etc.) are solely for maintaining continuity with existing Caltrans documents and are not provided to imply that the Construction Site BMP Reference Manual is a required contract document. ⁽²⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be determined by the Contractor and approved by the Resident Engineer. ⁽³⁾ Use of alternative BMPs will require written approval by the Resident Engineer.						

■ **WE-1 Wind Erosion Control**

This BMP will be implemented to provide dust control. It will be implemented in conjunction with NS-1, Water Conservation Practices, to prevent discharges from dust control activities and water supply equipment. Water application rates will be minimized as necessary to prevent runoff and ponding. Water equipment leaks will be repaired immediately.

■ **All Soil Stabilization measures included in Section 500.3.4 (Contractor to supply)**

30.2 Construction Site Management

30.2.1 *Non-Stormwater Management BMPs*

The following BMP implementation table indicates the BMPs that have been selected to control non-stormwater pollution on the construction site. Implementation and locations of non-stormwater control BMPs are shown on the WPCDs in Attachment A and described in this section. The BMP working details that will be adhered to are found in Attachment A of this WPCP.

CONSTRUCTION SITE MANAGEMENT						
NON-STORMWATER MANAGEMENT POLLUTION CONTROL BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽²⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
NS-1	Water Control and Conservation		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-2	Dewatering ⁽³⁾		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-3	Paving, Sealing, Sawcutting, and Grinding Operations		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Using Other Measures
NS-4	Temp Stream Crossing ⁽³⁾		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
NS-5	Clear Water Diversion ⁽³⁾		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
NS-6	Illegal Connection and Illegal Discharge Detection Reporting	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-7	Potable Water / Irrigation		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-8	Vehicle and Equipment Cleaning	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-9	Vehicle and Equipment Fueling	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-10	Vehicle and Equipment Maintenance	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No vehicle service onsite
NS-11	Pile Driving Operations		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No pile driving on project.
NS-12	Concrete Curing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
NS-13	Material and Equipment Used Over Water		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No construction over water.
NS-14	Concrete Finishing		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CONSTRUCTION SITE MANAGEMENT						
NON-STORMWATER MANAGEMENT POLLUTION CONTROL BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽²⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
NS-15	Structure Demolition / Removal Over or Adjacent to Water		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
ALTERNATIVE NON-STORMWATER CONTROL BMPs USED⁽⁴⁾						IF USED, STATE REASON
<input type="checkbox"/> Yes <input type="checkbox"/> No						
Notes: ⁽¹⁾ The BMP designations (SS-1, SC-3, etc.) are solely for maintaining continuity with existing Caltrans documents and are not provided to imply that the Construction Site BMP Reference Manual is a required contract document. ⁽²⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be determined by the Contractor and approved by the Resident Engineer. ⁽³⁾ The BMPs listed above are incidental and do not include operations included as separate line items in the contract. ⁽⁴⁾ Use of alternative BMPs will require written approval by the Resident Engineer.						

■ **NS-1 Water Conservation Practices**

The Contractor shall use water in a manner which will not cause erosion or transport pollutants off site.

■ **NS-2 Dewatering Operations**

Groundwater is not anticipated to be encountered during this project. For any dewatering operations of accumulated rain water in excavations or sump areas of the project site, the WPCM will notify the Engineer prior to discharge of non-storm water. The WPCM will implement sediment treatment measures(s) appropriate for the flow rate prior to all dewatering discharges to the storm drain system or other offsite location.

■ **NS-6 Illicit Connection/Illegal Discharge Detection and Reporting**

The WPCM will report illicit connections and/or illegal discharges by others to the NCTD Engineer.

■ **NS-7 Portable Water/Irrigation**

Water from water line flushing will be reused, or allowed to infiltrate and/or evaporate, so as to prevent its flow into any offsite drainage system.

Where possible, water from offsite sources will be directed around the construction site, or through the construction site in a way that minimizes contact with construction site pollutants, including sediment.

The water source to broken lines, sprinklers, or valves will be shut off as soon as possible to prevent excess water flow.

■ **NS-8 Vehicle and Equipment Cleaning**

Vehicles and equipment cleaning operations will not occur on the project site. All vehicles/equipments that regularly enter and leave the construction site will be cleaned offsite.

■ **NS-9 Vehicle and Equipment Fueling/NS-10 Vehicle and Equipment Maintenance**

Several types of vehicles and equipment will be used on site throughout the project, including graders, loaders, paving equipment, rollers, trucks and trailers, backhoes, forklifts, generators, compressors, and traffic control equipment. The practices described below will be implemented to prevent discharges of fuel and other vehicle fluids to storm water discharges.

- Vehicles and equipment will be stored and serviced on an impervious surface at the Contractor's yard in an area protected from storm water run-on. Spill kits will be stored near this area for immediate use.
- Oversized equipment and vehicles that are impractical to return to the vehicle storage and service area will be stored and serviced in the area where the equipment is being used.
- Mobile fueling and maintenance operations will not occur during storm events. Mobile fueling rigs will be equipped with drip pans, plastic sheeting and/or absorbent materials to be implemented by fueling personnel leave the area. Collected waste shall be disposed of properly.

■ **NS-12, NS-14 Concrete Curing and Finishing**

- Protect drain inlets prior to application of curing compounds. Excess cure water and water from high pressure blasting will be collected and disposed of, and will not be allowed to runoff to inlets or swales. Wet blankets will be used wherever possible to eliminate excess cure water.

30.2.2 Waste Management and Materials Pollution Control BMPs

The following BMP implementation table indicates the BMPs that have been selected to control construction site wastes and materials. Implementation and locations of materials handling and waste management BMPs are shown on the WPCDs in Attachment A. The BMP working details that will be adhered to are found in Attachment A of this WPCP. The following list of BMPs and narrative explain how the selected BMPs will be incorporated into the project.

CONSTRUCTION SITE MANAGEMENT						
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs						
CONSTRUCTION BMP ID NO ⁽¹⁾	BMP NAME	MINIMUM REQUIRE- MENT ⁽²⁾	CONTRACT BID ITEM	BMP USED		IF NOT USED, STATE REASON
				YES	NO	
WM-1	Material Delivery and Storage	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-2	Material Use	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-3	Stockpile Management	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-4	Spill Prevention and Control	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-5	Solid Waste Management	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-6	Hazardous Waste Management ⁽³⁾		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
WM-7	Contaminated Soil Management ⁽³⁾		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-8	Concrete Waste Management		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Temporary Concrete Washout Facility		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Temporary Concrete Washout (Portable)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-9	Sanitary/Septic Waste Management	✓	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WM-10	Liquid Waste Management		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable
ALTERNATIVE WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs USED⁽⁴⁾						IF USED, STATE REASON
<input type="checkbox"/> Yes <input type="checkbox"/> No						
Notes: ⁽¹⁾ The BMP designations (SS-1, SC-3, etc.) are solely for maintaining continuity with existing Caltrans documents and are not provided to imply that the Construction Site BMP Reference Manual is a required contract document. ⁽²⁾ Not all minimum requirements may be applicable to every project. Applicability to a specific project shall be verified by the Contractor or determined by Caltrans. ⁽³⁾ The BMPs listed above are incidental and do not include operations included as separate line items in the contract. ⁽⁴⁾ Use of alternative BMPs will require written approval by the Resident Engineer.						

■ **WM-1 Material Delivery and Storage**

Material loading, unloading, and storage areas will be located throughout the site depending upon current operations and materials being handles. Practices that will be implemented in these various areas are as follow:

- Storage, preparation, and mixing of liquid materials, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 shall be accomplished in secondary containment facilities.
- Chemically incompatible materials shall not be stored in the same secondary containment facility.
- Throughout the rainy season, secondary containment facilities shall be covered during non-working days. Year-round these materials shall be covered prior to rain events.
- Secondary containment facilities shall be maintained free of accumulated rainwater and spills
- Materials shall be stored in their original containers, and the original product labels shall be maintained in place and in legible condition.
- Bagged or boxed materials shall be stored on pallets and shall not be allowed to accumulate on the ground. During rainy season, materials shall be covered during non-working days. Year-round materials shall be covered prior to rain events.
- Material inventory shall be minimized.

■ **WM-2 Material Use**

The Contractor will implement material use practices as follows:

- Material Safety Data Sheets (MSDS) shall be available.
- Original labels will not be removed. The entire product will be used before disposing of the container.
- Materials will be used only where and when needed to complete the construction activity. Safer alternative materials will be used as applicable.
- Materials will be applied to avoid exposure to rainfall and runoff unless sufficient time has been allowed for them to dry.

■ **WM-3 Stockpile Management**

This BMP will be provided year-round for soil, ballast, and paving material stockpiles that are located on the project. Stockpiles will be located away from concentrated flows of storm water, drainage courses, and inlets.

■ **WM-4 Spill Prevention and Control**

The Contractor will implement spill prevention and control practices as follows:

- Spills will be contained to minimize spreading. Spilled materials will be recovered. The contaminated area will be cleaned and contaminated materials will be disposed of properly.
- Absorbent materials will be used to clean up spills. Spills will never be washed with water or buried.
- Water overflow or minor water spillage shall be contained and not be allowed to discharge into drainage facilities.
- Material and waste storage areas shall be kept clean, well organized, and stocked with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners shall be repaired or replaced as needed to maintain proper function.
- Used cleanup materials, contaminated materials, and recovered spill materials shall be disposed of properly in conformance with applicable requirements.
- Spills of oil, petroleum products, substances listed under 40 CFR parts 11, 117, and 302, and sanitary and septic wastes shall be contained and cleaned up immediately.

■ **WM-5 Solid Waste Management**

The following practices will be implemented to minimize storm water contact with waste materials and prevent waste discharges:

- Littering by Contractor employees shall be prohibited.
- Drainage systems shall be free of solid wastes and remain functional during periods of rain.
- Dumpster(s) with appropriate storage capacity shall be provided to contain the solid wastes generated by the project.
- When applicable, solid wastes will be loaded directly into trucks for offsite disposal. When onsite storage is necessary, solid wastes will be stored in watertight dumpsters in the general storage area of the Contractor's yard. Dumpsters are to be located away from drainage systems or watercourses.
- Storm water run-on shall be prevented from contacting stored solid wastes by using berms, dikes, or other temporary diversion structures.
- Full dumpsters shall be removed from the project site and the contents shall be disposed of.
- Toxic wastes are not to be disposed of in dumpsters designated for general construction debris.
- Solid waste will be removed and disposed of offsite at least weekly.

■ **WM-7 Contaminated Soil Management**

When contaminated soils are encountered, the Resident Engineer shall be notified, the contaminated soils shall be contained, covered if stockpiled, and disposed of per the Contaminated Soil Management BMP, and the Special Provisions. Employees shall be instructed to recognize evidence of contaminated soil, such as buried debris, discolored soil, and unusual odors.

■ **WM-8 Concrete Waste Management**

Employees, subcontractors and suppliers shall be educated on the concrete waste management techniques outlined in the section. The following practices and procedures shall be implemented to minimize or eliminate the discharge of concrete waste materials to the storm drain system.

○ **Concrete Slurries**

- Portland Cement Concrete (PCC) and asphalt concrete (AC) wastes shall not be allowed to enter storm drains or watercourses.
- Concrete pours or operations that will generate concrete slurries will not be conducted during or immediately prior to rainfall events.
- PCC or AC wastes shall be collected and disposed of properly or placed in a temporary concrete washout facility. A sign shall be installed adjacent to each temporary concrete washout facility identifying the temporary facility.
- Slurry residue will be picked up by vacuum and disposed of in a temporary pit (as described in On-Site Temporary Concrete Washout Facility, Concrete Transit Truck Washout Procedures, below) and allowed to dry. Dried slurry residue will be disposed of in accordance with BMP WM-5, "Solid Waste Management."

○ **On-Site Temporary Concrete Washout Facility, Concrete Transit Truck Washout Procedure**

- The location(s) of temporary concrete washout facilities will be identified by the WPCM or designee 24 hours prior to scheduled pour.
- Temporary concrete washout facilities shall be located a minimum of 15m (50 ft) from storm drain inlets, open drainage facilities and watercourses. Each facility shall be located away from construction traffic or access areas to prevent disturbance or tracking.
- Temporary concrete washout facilities shall be constructed above grade or below grade at the option of the Contractor. Temporary concrete washout facilities shall be constructed and maintained with sufficient quantity and

- size to contain all liquid and concrete wastes generated by washout operations.
- Once concrete wastes are washed into the designated area and allowed to harden, the concrete shall be broken up, removed and disposed of per BMP WM-5, "Solid Waste Management." Hardened concrete waste will be disposed of on a regular basis.
 - Temporary Concrete Washout Facility (Above Grade)
 - Temporary concrete washout facilities (above grade) shall be constructed with a recommended minimum length and minimum width of 3m (10 fr), but with sufficient quantity and volume to contain all liquid and concrete wastes generated by washout operations.
 - Plastic lining material shall be a minimum of 60-mil polyethylene sheeting and shall be free of holes, tears or other defects that compromise the impermeability of the material.
 - Temporary Concrete Washout Facility (Below Grade)
 - Temporary concrete washout facilities (below grade) shall be constructed with a recommended minimum length and minimum width of 3m (10 ft) and lined with 10 mil. Visqueen. The quantity and volume shall be sufficient to contain all liquid and concrete wastes generated by washout operations.
 - Removal of Temporary Concrete Washout Facilities
 - When temporary concrete facilities are no longer required for the work, as determined by the Engineer, the hardened concrete shall be removed and disposed of.
 - WM-9 Sanitary/Septic Waste Management
 - This BMP is applicable to temporary and portable sanitary/septic systems on construction sites and associated areas. The Contractor shall minimize or eliminate the discharge of construction sanitary/septic wastes by implementing the following practices and procedures.
 - Employees and subcontractors shall be educated on the sanitary/septic waste storage and disposal procedures outlined in this section.
 - No direct connection to the sanitary sewer system will be employed nor will an onsite septic system be constructed.
 - Temporary sanitary facilities shall be located away from drainage facilities, watercourses, moving equipment and public traffic.
 - When sanitary facilities are subjected to high winds, the facilities will be secured to prevent overturning.
 - Wastewater shall not be buried within the project site.

30.3 Water Pollution Control Drawings (WPCDs)

The WPCDs are included as Attachment A to this Water Pollution Control Program.

30.4 Construction BMP Maintenance, Inspection, and Repair

A completed Inspection, Maintenance, and Repair Program shall be provided in Attachment B of the WPCP.

Site inspections shall be conducted by the Contractor's WPCM or other Caltrans approved 24-hour trained staff at the following minimum frequencies:

- Prior to a forecast storm.
- After a rain event that causes runoff from the construction site.
- At 24-hour intervals during extended rain events.
- Daily inspections within the San Diego Hydrological Unit.
- Weekly during the rainy season.
- Every 2 weeks during the non-rainy season; and
- At any other time(s) or intervals of time specified in the Contract Special Provisions.

Completed inspection checklists (Attachment C) will be submitted to the Resident Engineer within 24 hours of inspection. Copies of the completed checklists will be kept with the WPCP. A tracking or follow-up procedure shall follow any inspection that identifies deficiencies in BMPs.

30.5 Training

The Water Pollution Control Manager (WPCM) assigned to this project is:

Insert WPCM's Name-then TAB

Insert Telephone Number(s)-then TAB

Insert Contractor's Company Name-then TAB

Insert Address 1 then press ENTER to insert Address 2 or TAB to next field

Insert City, State, Zip-then TAB

The WPCM shall have primary responsibility and significant authority for the implementation, maintenance, inspection and amendments to the approved WPCP. The WPCM will be available at all times throughout duration of the project. Duties of the Contractor's WPCM include but are not limited to:

- Ensuring full compliance with the WPCP and the Permit; and
- Implementing all elements of the WPCP.

The WPCM shall have the authority to mobilize crews in order to make immediate repairs to the water pollution control measures.

The training log showing formal and informal training of various personnel is shown in Attachment G. A copy of all training certificate(s) (e.g., Caltrans 24 Hour Training Class, etc.) for the WPCM and the WPCP Preparer are included in Attachment G. Training records shall be updated, documented and reported in the WPCP quarterly. Documentation of new training shall be submitted to the Resident Engineer within 24-hours of training.

INSERT HERE ANY ADDITIONAL TEXT REGARDING TRAINING OF PERSONNEL.

This WPCP was prepared by INSERT COMPANY, NAME AND PROFESSIONAL REGISTRATION OR OTHER QUALIFICATIONS (INCLUDING INFORMATION REGARDING OTHER TRAINING COURSES, SUCH AS CALTRANS SWPPP PREPARATION TRAINING) OF PERSON THAT PREPARED THE WPCP.

Section 40

Amendments

The WPCP shall be amended whenever there is a change in construction or operations that may cause the discharge of significant quantities of pollutants to surface waters, ground waters, municipal storm drain systems, or when deemed necessary by the Resident Engineer. All WPCP amendments shall be documented in letter format and include revised WPCD sheets, as appropriate. WPCP amendments shall be certified by the contractor and require approval by the Caltrans or Local Agency / Private Entity Resident Engineer (and Caltrans Oversight Engineer if applicable). Approved amendments and log shall be attached to the Contractor's on-site WPCP in Attachment D.

Project Name: **DOWNTOWN SAN DIEGO QUIET ZONE PROJECT**

Contract Number: **INSERT CONTRACT NUMBER-THEN TAB TO NEXT FIELD.**

Amendment No.	Date	Brief Description of Amendment	Prepared By

Section 50

Reporting

50.1 Discharge Reporting

If a discharge occurs or if the project receives a written notice or order from any regulatory agency, the contractor will immediately notify the Engineer and will file a written report to the Resident Engineer within 7 days (3 days for Districts 7 and 11) of the discharge event, notice, or order. Corrective measures will be implemented immediately following the discharge, notice or order. A Notice of Discharge form is provided in Attachment E. All discharges shall be documented on a Discharge Reporting Log in Attachment F.

The report to the Resident Engineer will contain the following items:

- The date, time, location, nature of operation, and type of discharge, including the cause or nature of the notice or order.
- The BMPs deployed before the discharge event, or prior to receiving notice or order.
- The date of deployment and type of BMPs deployed after the discharge event, or after receiving the notice or order, including additional BMPs installed or planned to reduce or prevent re-occurrence.
- An implementation and maintenance schedule for any affected BMPs.

Discharges requiring reporting include:

- Stormwater from a DSA discharged to a waterway without treatment by a temporary construction BMP.
- Non-stormwater, except conditionally exempted discharges, discharged to a waterway or a storm drain system, without treatment by an approved control measure (BMP).
- Stormwater discharged to a waterway or a storm drain system where the control measures (BMPs) have been overwhelmed or not properly maintained or installed.
- Discharge of hazardous substances above the reportable quantities in 40 CFR 117.3 or 302.4.
- Stormwater runoff containing hazardous substances from spills discharged to a waterway or storm drain system.
- Discharges that may endanger health or the environment.
- Other discharge reporting as directed by the Resident Engineer.