

APPENDIX E

Short Form - Storm Water Data Report



Dist-County-Route: 04-Ala/CC-680

Post Mile Limits: Ala PM 20.2/21.9; CC PM 0.0/24.6

Project Type: Fiber/electrical cable, conduit, pull boxes, service equipment enclosures & communication cabinets

Project ID (or EA): 04-2J330

Program Identification: _____

- Phase:
- PID
 - PA/ED
 - PS&E

Regional Water Quality Control Board(s): San Francisco Bay (2)

- | | | |
|---|------------------------------|--|
| 1. Is the project required to consider incorporating Treatment BMPs? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 2. Does the project disturb 5 or more acres of soil? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 3. Does the project disturb more than 1 acre of soil and not qualify for the Rainfall Erosivity Waiver? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4. Does the project potentially create permanent water quality impacts? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5. Does the project require a notification of ADL reuse | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

If the answer to any of the preceding questions is "Yes", prepare a Long Form - Storm Water Data Report.

Estimate Construction Start Date: 08/2015 Construction Completion Date: 01/2016

Separate Dewatering Permit (if yes, permit number) Yes Permit _____ No

Erosivity Waiver Yes Date: T.B.D. No

This Short Form - Storm Water Data Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.



(Stamp Required for PS&E only)

Andrew Frost 5/19/15
Andrew Frost, Registered Project Engineer/Landscape Architect Date

I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:

M. H. Ch... 5/4/15
[Name], District/Regional SW Coordinator or Designee Date

1. Project Description

The Project proposes the installation and construction of approximately 26 miles of fiber optic cable to support a proposed express lane network within the Bay Area and the Route 680 corridor. The proposed project area will extend from the Route 680/Route 580 intersection in Dublin, CA (Ala PM 20.2) to the Benicia Bridge Toll Plaza in Martinez (CC PM 24.6).

The Project will utilize existing conduit infrastructure for a majority (approximately 83%) of the proposed construction limits, minimizing the disturbance to the existing surface conditions. For the remaining 17% of the project corridor, new conduits varying in size from 2 to 3-inch will be installed to house the new fiber optic and electrical cable. The new conduits will be installed via directional drilling as well as narrow 6-inch wide trenches. When trenched, the project will replace the existing surface material in kind upon installation. Sections of new conduit being installed through existing asphalt surfaces will maintain a 6-inch trench, but will replace a 4-foot wide section of asphalt, centered on the trench. The wider installation of the asphalt will ensure the long term integrity of the repair, and yield less overall cracking, settling and separation issues from the existing roadway surface.

The Project will also install hub cabinets on concrete pad foundations measuring approximately 7 feet 8-inches by 4 feet 2-inches, in Dublin and Walnut Creek. The hub cabinets are approximately 5 feet 2-inches tall and 3 feet 8-inches wide, and require excavation of dirt to construct the foundations. The four new hubs with communications network equipment will be located at the Route 680/ Route 24 interchange (Walnut Creek Hub), Route 680 at Route 580 (West Dublin Hub), Caltrans District 4 Headquarters Building (Caltrans TMC Hub), and the Benicia Bridge Toll Plaza.

Upgrades to existing pull box infrastructure will also be part of the Project scope. New upgraded pull boxes will be installed to allow for the proper sweep and pull box spacing of the new system. Pull box installation will require minor excavation in order to expose the box, connect the appropriate conduit and backfill around the pull box. As part of the adjustment to pull box spacing, existing pull boxes will also be removed in some instances.

Construction activities will be confined mostly to the existing median of the Route 680 corridor, with the northern most portion of the corridor being installed on the northbound shoulder of the roadway. The majority of construction activities will be confined to State right-of-way. Approximately 500 feet of conduit will be directionally drilled within Walnut Creek right-of-way.

The disturbed soil areas (DSA) for the project site will be small, and has been calculated to be 0.17 acres over the entire 26 mile project corridor. The Project will not add or create any additional impervious areas, as the improvements will take place within an existing transportation corridor. The installation of fiber optic cable will maintain the existing line and grade, drainage patterns and surface types of the existing corridor.

The San Francisco Regional Water Quality Control Board (RWQCB) has jurisdiction over the project site and defines the rainy season as October 15th through April 15th. The Project will not impact any nearby water bodies, as there will not be significant soil disturbance and all trenching excavation will be covered at the end of the day. There are no high risk areas within the vicinity of the Project.

2. Construction Site BMPs

The Project has a disturbed soil area of 0.17 acres and requires the preparation of a Water Pollution Control Program (WPCP). A draft WPCP has been prepared, and a final WPCP will be completed by

the contractor prior to construction. Since the DSA is less than one acre, a SWPPP and site risk level determination will not be required.

The Construction Site BMP strategy for the Project shall consist of the BMPs listed in this section. Soil stabilization and sediment control measures such as fiber rolls, shall be used during open trench construction occurring within two days of a probable or active rain event. A probable rain event is defined as a greater than 50% chance of rain within 48 hours. Trenches shall also require mulch covering, as shown on the project plans. Storm drain inlet protection shall be used at all inlets near open trenching construction. If no probable or active rain event is in the forecast, than construction may proceed without the deployment of sandbags and fiber rolls provided the open trench is covered each day before the close of construction activities.

Non-stormwater management, waste management and housekeeping BMPs shall be deployed and used during all periods of construction, even when no probable rain event is forecast. Concrete waste shall be disposed of in washout facilities, trash and refuge bins shall be covered, and concrete, paint and other hazardous materials shall be stored indoors or under cover with secondary containment. No vehicle maintenance shall be performed on site.

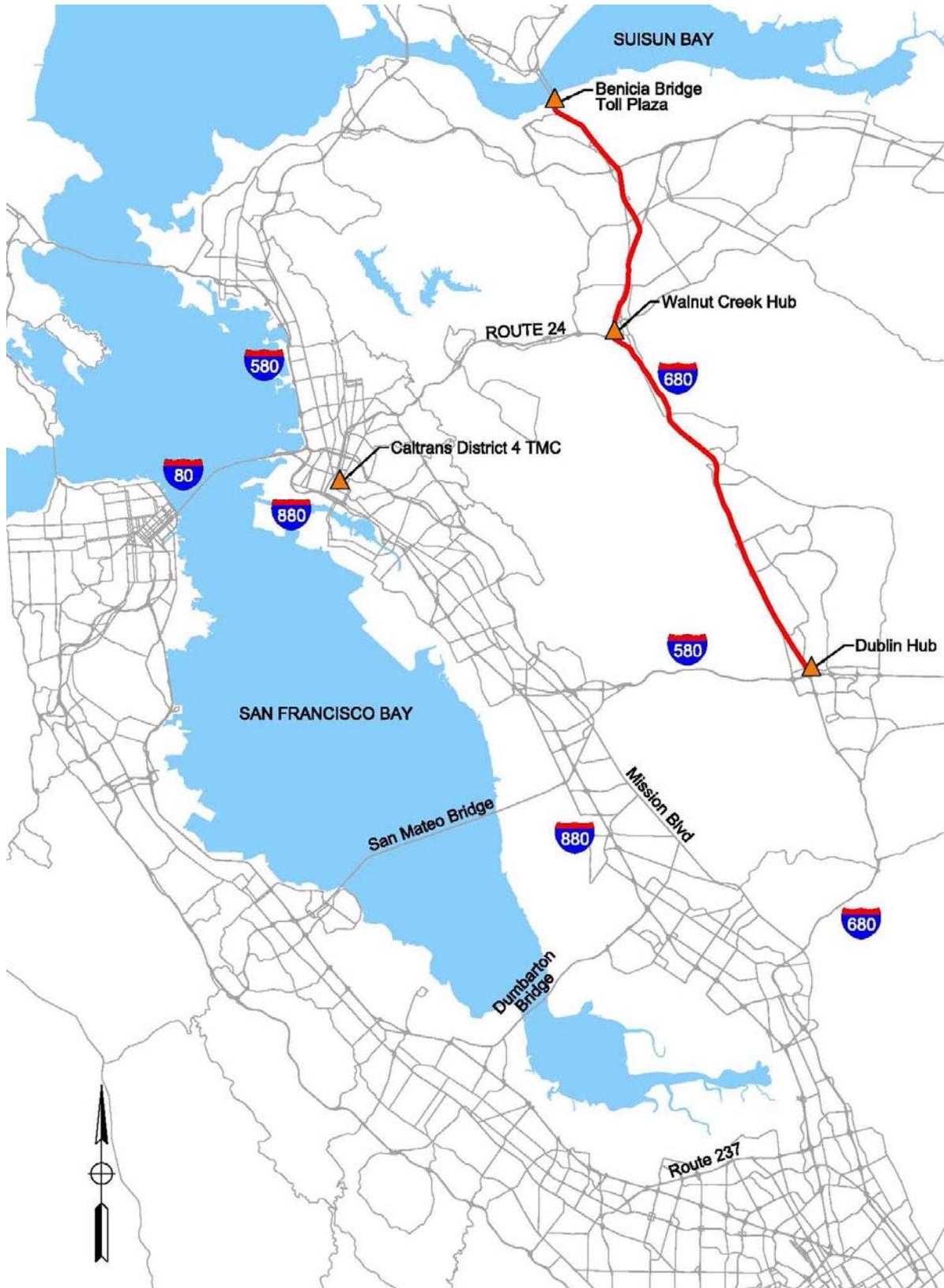
The following site BMPs have been included in the plan set as separate line items: fiber roll, mulch covering, temporary concrete washout, storm drain inlet protection and preparation of the final WPCP. Non Stormwater BMPs such as trash coverings and material storage are not listed in specific line items, and shall be covered under the mobilization charge.

Temporary BMPs	Quantity	Unit
Fiber Rolls	2,400	LF
Mulch Covering	110	CY
Temporary Concrete Washout (Portable)	1	LA
Storm Drain Inlet Protection	71	EA
Water Pollution Control Program	1	LS

3. Required Attachments¹

- Vicinity Map
- Evaluation Documentation Form
- Construction Site BMP Consideration Form (required at PS&E only)
- Checklist CS-1, Parts 1-6 [only those parts that are applicable]

¹ Additional attachments may be required as applicable or directed by the District/Regional Design Storm Water Coordinator (e.g. BMP line item estimate, DPP, CS checklists, etc).



Evaluation Documentation Form

DATE: 05/1/2015

Project ID (or EA): 04-2J330

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION FOR EVALUATION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2
2.	Is this an emergency project?		✓	If Yes, go to 10. If No, continue to 3.
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.		✓	If Yes, contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 9 or 4.  (Dist./Reg. SW Coordinator Initials) If No, continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?		✓	If Yes, <i>(write the MS4 Area here)</i> , go to 5. If No, document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?		✓	If Yes, continue to 6. If No, go to 10.
6.	Is it a new facility or major reconstruction?			If Yes, continue to 8. If No, go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?			If Yes, continue to 8. If No, go to 10.
8.	Does the project result in a <u>net increase of one acre or more of new impervious surface?</u>			If Yes, continue to 9. If No, go to 10. _____ (Net Increase New Impervious Surface)
9.	Project is required to consider approved Treatment BMPs.			See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.
10.	Project is not required to consider Treatment BMPs.  (Dist./Reg. Design SW Coord. Initials)  (Project Engineer Initials) <u>5/1/15</u> (Date)	✓		Document for Project Files by completing this form, and attaching it to the SWDR.

1. See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs

Construction Site BMP Consideration Form

DATE: 05/01/2015

Project ID (or EA): 04-213304

Project Evaluation Process for the Consideration of Construction Site BMPs

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION
1.	Will construction of the project result in areas of disturbed soil as defined by the Project Planning and Design Guide (PPDG)?	✓		If Yes, Construction Site BMPs for Soil Stabilization (SS) will be required. Complete CS-1, Part 1. Continue to 2. If No, Continue to 3.
2.	Is there a potential for disturbed soil areas within the project to discharge to storm drain inlets, drainage ditches, areas outside the right-of-way, etc?	✓		If Yes, Construction Site BMPs for Sediment Control (SC) will be required. Complete CS-1, Part 2. Continue to 3.
3.	Is there a potential for sediment or construction related materials and wastes to be tracked offsite and deposited on private or public paved roads by construction vehicles and equipment?		✓	If Yes, Construction Site BMPs for Tracking Control (TC) will be required. Complete CS-1, Part 3. Continue to 4.
4.	Is there a potential for wind to transport soil and dust offsite during the period of construction?	✓		If Yes, Construction Site BMPs for Wind Erosion Control (WE) will be required. Complete CS-1, Part 4. Continue to 5.
5.	Is dewatering anticipated or will construction activities occur within or adjacent to a live channel or stream?		✓	If Yes, Construction Site BMPs for Non-Storm Water Management (NS) will be required. Complete CS-1, Part 5. Continue to 6.
6.	Will construction include saw-cutting, grinding, drilling, concrete or mortar mixing, hydro-demolition, blasting, sandblasting, painting, paving, or other activities that produce residues?	✓		If Yes, Construction Site BMPs for Non-Storm Water Management (NS) will be required. Complete CS-1, Parts 5 & 6. Continue to 7.
7.	Are stockpiles of soil, construction related materials, and/or wastes anticipated?	✓		If Yes, Construction Site BMPs for Waste Management and Materials Pollution Control (WM) will be required. Complete CS-1, Part 6. Continue to 8.
8.	Is there a potential for construction related materials and wastes to have direct contact with precipitation; stormwater run-on, or stormwater runoff; be dispersed by wind; be dumped and/or spilled into storm drain systems?	✓		If Yes, Construction Site BMPs for Waste Management and Materials Pollution Control (WM) will be required. Complete CS-1, Part 6. Continue to 9.
9.	End of checklist.			Document for Project Files by completing this form, and attaching it to the SWDR.


PE to initialize after concurrence with Construction (PS&E only)

5/19/15
Date



Construction Site BMPs	
Checklist CS-1, Part 1	
Prepared by: <u>Atkins</u>	Date: <u>05/01/15</u> District-Co-Route: <u>04-Ala/CC-680</u>
PM : <u>R 20.2/R21.9; R0.0/R24.6</u> Project ID (or EA): <u>04-2J330</u> RWQCB: <u>San Francisco</u>	

Soil Stabilization

General Parameters

- | | |
|--|--|
| 1. How many rainy seasons are anticipated between begin and end of construction? | 1 |
| 2. What is the total disturbed soil area for the project? (ac) | 0.17 |
| (a) How much of the project DSA consists of slopes 4:1 (h:v) or flatter? Sheet flow not to exceed 20 ft (ac). | 100% |
| (b) How much of the project DSA consists of 4:1 (h:v) < slopes < 2:1 (h:v)? Sheet flow not exceed 15 ft (ac). | 0% |
| (c) How much of the project DSA consists of slopes 2:1 (h:v) and steeper? Sheet flow not exceed 10 ft (ac). | 0% |
| 3. What rainfall area does the project lie within? (Refer to 2003 Caltrans SWMP) | 3 |
| 4. Review the required combination of temporary soil stabilization and temporary sediment controls and barriers for area, slope inclinations, rainy and non-rainy season, and active and non-active disturbed soil areas. (Refer to Tables 2-2, and 2-3 of the Construction Site Best Management Practices Manual for Rainfall Area requirements.) | <input checked="" type="checkbox"/> Complete |

Scheduling (SS-1)

- | | |
|--|---|
| 5. Does the project have a duration of more than one rainy season and have disturbed soil area in excess of 25 acres? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| (a) Include multiple mobilizations (Move-in/Move-out) as a separate contract bid line item to implement permanent erosion control or revegetation work on slopes that are substantially complete. (Estimate at least 6 mobilizations for each additional rainy season. Designated Construction Representative may suggest an alternate number of mobilizations.) | <input type="checkbox"/> Complete |
| (b) Edit Order of Work specifications for permanent erosion control or revegetation work to be implemented on slopes that are substantially complete. | <input type="checkbox"/> Complete |
| (c) Edit permanent erosion control or revegetation specifications to require seeding and planting work to be performed when optimal. | <input type="checkbox"/> Complete |

Preservation of Existing Vegetation (SS-2)

- 6. Do Environmentally Sensitive Areas (ESAs) exist within or adjacent to the project limits? (Verify the completion of DPP-1, Part 5) Yes No
 - (a) Verify the protection of ESAs through delineation on all project plans. Complete
 - (b) Protect from clearing and grubbing and other construction disturbance by enclosing the ESA perimeter with high visibility plastic fence or other BMP. Complete

- 7. Are there areas of existing vegetation (mature trees, native vegetation, landscape planting, etc.) that need not be disturbed by project construction? Will areas designated for proposed treatment BMPs need protection (infiltration characteristics, vegetative cover, etc.)? (Coordinate with District Environmental and Construction to determine limits of work necessary to preserve existing vegetation to the maximum extent practicable.) Yes No
 - (a) Designate as outside of limits of work (or designate as ESAs) and show on all project plans. Complete
 - (b) Protect with high visibility plastic fence or other BMP. Complete

- 8. If yes for 6, 7, or both, then designate ESA fencing as a separate contract bid line item, *if not already incorporated as part of design pollution prevention work (See DPP-1, Part 5).* Complete

Slope Protection

- 9. Provide a soil stabilization BMP(s) appropriate for the DSA, slope steepness, slope length, and soil erodibility. (Consult with District/Regional Landscape Architect.)
 - (a) Select SS-3 (Hydraulic Mulch), SS-4 (Hydroseeding), SS-5 (Soil Binders), SS-6 (Straw Mulch), SS-7 (Geotextiles, Mats, Plastic Covers, and Erosion Control Blankets), SS-8 (Wood Mulching), other BMPs or a combination to cover the DSA throughout the project's rainy season. Complete
 - (b) Increase the quantities by 25% for each additional rainy season. (Designated Construction Representative may suggest an alternate increase.) Complete
 - (c) Designate as a separate contract bid line item. Complete

Slope Interrupter Devices

- 10. Provide slope interrupter devices for all slopes with slope lengths equal to or greater than of 20 ft in length, in accordance with CGP requirements..

- (a) Select SC-5 (Fiber Rolls) or other BMPs to protect slopes throughout the project's rainy season. Complete
- (b) For slope inclination of 4:1 (h:v) and flatter, SC-5 (Fiber Rolls) or other BMPs shall be placed along the contour and spaced 20 ft on center. Complete
- (c) For slope inclination between 4:1 (h:v) and 2:1 (h:v), SC-5 (Fiber Rolls) or other BMPs shall be placed along the contour and spaced 15 ft on center. Complete
- (d) For slope inclination of 2:1 (h:v) and greater, SC-5 (Fiber Rolls) or other BMPs shall be placed along the contour and spaced 10 ft on center. Complete
- (e) Increase the quantities by 25% for each additional rainy season. (Designated Construction Representative may suggest alternate increase.) Complete
- (f) Designate as a separate contract bid line item. Complete

Channelized Flow

- 11. Identify locations within the project site where concentrated flow from stormwater runoff can erode areas of soil disturbance. Identify locations of concentrated flow that enters the site from outside of the right-of-way (off-site run-on). Complete
 - (a) Utilize SS-7 (Geotextiles, Mats, Plastic Covers, and Erosion Control Blankets), SS-9 (Earth Dikes/Swales, Ditches), SS-10 (Outlet Protection/Velocity Dissipation), SS-11 (Slope Drains), SC-4 (Check Dams), or other BMPs to convey concentrated flows in a non-erosive manner. Complete
 - (b) Designate as a separate contract bid line item. Complete

<p>Construction Site BMPs</p> <p>Checklist CS-1, Part 2</p>
<p>Prepared by: <u>Atkins</u> Date: <u>05/01/15</u> District-Co-Route: <u>04-Ala/CC-680</u></p>
<p>PM : <u>R 20.2/R21.9; R0.0/R24.6</u> Project ID (or EA): <u>04-2J330</u> RWQCB: <u>San Francisco</u></p>

Sediment Control

Perimeter Controls - Run-off Control

1. Is there a potential for sediment laden sheet and concentrated flows to discharge offsite from runoff cleared and grubbed areas, below cut slopes, embankment slopes, etc.? Yes No
 - (a) Select linear sediment barrier such as SC-1 (Silt Fence), SC-5 (Fiber Rolls), SC-6 (Gravel Bag Berm), SC-8 (Sand Bag Barrier), SC-9 (Straw Bale Barrier), or a combination to protect wetlands, water courses, roads (paved and unpaved), construction activities, and adjacent properties. (Coordinate with District Construction for selection and preference of linear sediment barrier BMPs.) Complete
 - (b) Increase the quantities by 25% for each additional rainy season. (Designated Construction Representative may suggest an alternate increase.) Complete
 - (c) Designate as a separate contract bid line item. Complete

Perimeter Controls - Run-on Control

2. Do locations exist where sheet flow upslope of the project site and where concentrated flow upstream of the project site may contact DSA and construction activities? Yes No
 - (a) Utilize linear sediment barriers such as SS-9 (Earth Dike/Drainage Swales and Lined Ditches), SC-5 (Fiber Rolls), SC-6 (Gravel Bag Berm), SC-8 (Sand Bag Barrier), SC-9 (Straw Bale Barrier), or other BMPs to convey flows through and/or around the project site. (Coordinate with District Construction for selection and preference of perimeter control BMPs.) Complete
 - (b) Designate as a separate contract bid line item. Complete

Storm Drain Inlets

3. Do existing or proposed drainage inlets exist within the project limits? Yes No
 - (a) Select SC-10 (Storm Drain Inlet Protection) to protect municipal storm drain systems or receiving waters wetlands at each drainage inlet. (Coordinate with District Construction for selection and preference of inlet protection BMPs.) Complete

(b) Designate as a separate contract bid line item. Complete

4. Can existing or proposed drainage inlets utilize an excavated sediment trap as described in SC-10 (Storm Drain Inlet Protection- Type 2)? Yes No

(a) Include with other types of SC-10 (Storm Drain Inlet Protection). Complete

Sediment/Desilting Basin (SC-2)

5. Does the project lie within a Rainfall Area where the required combination of temporary soil stabilization and sediment control BMPs includes desilting basins? (Refer to Tables 2-1, 2-2, and 2-3 of the Construction Site Best Management Practices Manual for Rainfall Area requirements.) Yes No

(a) Consider feasibility for desilting basin allowing for available right-of-way within the project limits, topography, soil type, disturbed soil area within the watershed, and climate conditions. Document if the inclusion of sediment/desilting basins is infeasible. Complete

(b) If feasible, design desilting basin(s) per the guidance in the CASQA Construction BMP Guidance HandbookI to maximize capture of sediment-laden runoff. Complete

Designate as a separate contract bid item. Complete

6. Is ATS to be used for controlling sediment? Yes No

(a) If "yes", then will desilting basin or other means of natural storage be used? Yes No

(b) If "no", then plan for storage tanks sufficient to hold treatment volume. Complete

7. Will the project benefit from the early implementation of proposed permanent Treatment BMPs? (Coordinate with District Construction.) Yes No

(a) Edit Order of Work specifications for permanent treatment BMP work to be implemented in a manner that will allow its use as a construction site BMP. Complete

Sediment Trap (SC-3)

8. Can sediment traps be located to collect channelized runoff from disturbed soil areas prior to discharge? Yes No

(a) Design sediment traps in accordance with the CASQA Construction BMP GuidanceHandbook. Complete

(b) Designate as a separate contract bid line item. Complete

<p>Construction Site BMPs</p> <p>Checklist CS-1, Part 3</p> <p>Prepared by: <u>Atkins</u> Date: <u>05/01/15</u> District-Co-Route: <u>04-Ala/CC-680</u></p> <p>PM : <u>R 20.2/R21.9; R0.0/R24.6</u> Project ID (or EA): <u>04-2J330</u> RWQCB: <u>San Francisco</u></p>

Tracking Controls

Stabilized Construction Entrance/Exit (TC-1)

1. Are there points of entrance and exit from the project site to paved roads where mud and dirt could be transported offsite by construction equipment? (Coordinate with District Construction for selection and preference of tracking control BMPs.) Yes No
- (a) Identify and designate these entrance/exit points as stabilized construction entrances (TC-1). Complete
- (b) Designate as a separate contract bid line item. Complete

Tire/Wheel Wash (TC-3)

1. Are site conditions anticipated that would require additional or modified tracking controls such as entrance/outlet tire wash? (Coordinate with District Construction.) Yes No
- Designate as a separate contract bid line item. Complete

Stabilized Construction Roadway (TC-2)

3. Are temporary access roads necessary to access remote construction activity locations or to transport materials and equipment? (In addition to controlling dust and sediment tracking, access roads limit impact to sensitive areas by limiting ingress, and provide enhanced bearing capacity.) (Coordinate with District Construction.) Yes No
- (a) Designate these temporary access roads as stabilized construction roadways (TC-2). Complete
- (b) Designate as a separate contract bid line item. Complete

Street Sweeping and Vacuuming (SC-7)

1. Is there a potential for tracked sediment or construction related residues to be transported offsite and deposited on public or private roads? (Coordinate with District Construction for preference of including street sweeping and vacuuming with tracking control BMPs.) Yes No
- Designate as a separate contract bid line item. Complete

Construction Site BMPs
Checklist CS-1, Part 4

Prepared by: Atkins Date: 05/01/15 District-Co-Route: 04-Ala/CC-680

PM : R 20.2/R21.9; R0.0/R24.6 Project ID (or EA):04-2J330 RWQCB: San Francisco

Wind Erosion Controls

Wind Erosion Control (WE-1)

1. Is the project located in an area where standard dust control practices in accordance with Standard Specifications, Section 13: Dust Control, are anticipated to be inadequate during construction to prevent the transport of dust offsite by wind? *(Note: Dust control by water truck application is paid for through the various items of work. Dust palliative, if it is included, is paid for as a separate item.)*

Yes No

- (a) Select SS-3 (Hydraulic Mulch), SS-4 (Hydroseeding), SS-5 (Soil Binders), SS-7 (Geotextiles, Mats, Plastic Covers, and Erosion Control Blankets), SS-8 (Wood Mulching) or a combination to cover the DSA subject to wind erosion year-round, especially when significant wind and dry conditions are anticipated during project construction. (Coordinate with District Construction for selection and preference of wind erosion control BMPs.)

Complete

- (b) Designate as a separate contract bid line item.

Complete

<p>Construction Site BMPs</p> <p>Checklist CS-1, Part 5</p> <p>Prepared by: <u>Atkins</u> Date: <u>05/01/15</u> District-Co-Route: <u>04-Ala/CC-680</u></p> <p>PM : <u>R 20.2/R21.9; R0.0/R24.6</u> Project ID (or EA): <u>04-2J330</u> RWQCB: <u>San Francisco</u></p>

Non-Storm Water Management

Temporary Stream Crossing (NS-4) & Clear Water Diversion (NS-5)

- 1. Will construction activities occur within a waterbody or watercourse such as a lake, wetland, or stream? (Coordinate with District Construction for selection and preference for stream crossing and clear water diversion BMPs.) Yes No
 - (a) Select from types offered in NS-4 (Temporary Stream Crossing) to provide access through watercourses consistent with permits and agreements.¹ Complete
 - (b) Select from types offered in NS-5 (Clear Water Diversion) to divert watercourse consistent with permits and agreements.¹ Complete
 - (c) Designate as a separate contract bid line item(s). Complete

Other Non-Storm Water Management BMPs

- 2. Are construction activities anticipated that will generate wastes or residues with the potential to discharge pollutants? Yes No
 - (a) Identify potential pollutants associated with the anticipated construction activity and select the corresponding BMP such as NS-1 (Water Conservation Practices), NS-2 (Dewatering Operations), NS-3 (Paving and Grinding Operations), NS-7 (Potable Water/Irrigation), NS-8 (Vehicle and Equipment Cleaning), NS-9 (Vehicle and Equipment Fueling), NS-10 (Vehicle and Equipment Maintenance), NS-11 (Pile Driving Operations), NS-12 (Concrete Curing), NS-13 (Material and Equipment Use Over Water), NS-14 (Concrete Finishing), and NS-15 (Structure Demolition/Removal Over or Adjacent to Water).¹ Complete
 - (b) Verify that costs for non-stormwater management BMPs are identified in the contract documents. Designate BMP as a separate contract bid line item if the requirements in Construction Site Management Standard Specifications Section 13 are anticipated to be inadequate or if requested by Construction. Complete

¹ Coordinate with District Environmental for consistency with US Army Corps of Engineers 404 and 401 permits and Dept. of Fish and Game 1601 Streambed alteration Agreements.

Construction Site BMPs
Checklist CS-1, Part 6

Prepared by: Atkins Date: 05/01/15 District-Co-Route: 04-Ala/CC-680

PM : R 20.2/R21.9; R0.0/R24.6 Project ID (or EA): 04-2J330 RWQCB: San Francisco

Waste Management & Materials Pollution Control

Concrete Waste Management (WM-8)

1. Does the project include concrete placement or mortar mixing? Yes No
- (a) Select from types offered in WM-8 (Concrete Waste Management) to provide concrete washout facilities. In addition, consider portable concrete washouts and vendor supplied concrete waste management services. (Coordinate with District Construction for selection and preference of waste management and materials pollution control BMPs.) Complete
- (b) Designate as a separate contract bid line item if the quantity of concrete waste and washout are anticipated to exceed 5.2 yd³ or if requested by Construction. Complete

Other Waste Management and Materials Pollution Controls

2. Are construction activities anticipated that will generate wastes or residues with the potential to discharge pollutants? Yes No
- (a) Identify potential pollutants associated with the anticipated construction activity and select the corresponding BMP such as WM-1 (Material Delivery and Storage), WM-2 (Material Use), WM-4 (Spill Prevention and Control), WM-5 (Solid Waste Management), WM-6 (Hazardous Waste Management), WM-7 (Contaminated Soil Management), WM-9 (Sanitary/Septic Waste Management) and WM-10 (Liquid Waste Management) Complete
- (b) Verify that costs for waste management and materials pollution control BMPs are identified in the contract documents. Designate BMP as a separate contract bid line item if the requirements in Construction Site Management Standard Specifications section 13 are anticipated to be inadequate or if requested by Construction. Complete

Temporary Stockpiles (Soil, Materials, and Wastes)

3. Are stockpiles of soil, etc. anticipated during construction? Yes No
- (a) Select WM-3 (Stockpile Management), SS-3 (Hydraulic Mulch), SS-4 (Hydroseeding), SS-5 (Soil Binders), SS-7 (Geotextiles, Mats, Plastic Covers, and Erosion Control Blankets), or a combination as appropriate to cover temporary stockpiles of soil, etc. Complete

- (b) Select linear sediment barrier such as SC-1 (Silt Fence), SC-5 (Fiber Rolls), SC-6 (Gravel Bag Berm), SC-8 (Sand Bag Barrier), SC-9 (Straw Bale Barrier), or a combination to encircle temporary stockpiles of soil, etc. (Coordinate with District Construction for selection and preference of BMPs related to stockpiles.) Complete
- (c) Designate as a separate contract bid line item if the requirements in Construction Site Management Standard Specifications section 13 are anticipated to be inadequate or if requested by Construction. Complete
- 4. Is there a potential for dust and debris from construction material (fill material, etc.) and waste (concrete, contaminated soil, etc.) stockpiles to be transported offsite by wind? Yes No

 - (a) Select SS-7, temporary cover, plastic sheeting or other BMP to cover stockpiles subject to wind erosion year-round, especially when significant wind and dry conditions are anticipated during project construction. (Coordinate with District Construction for selection and preference of wind erosion control BMPs.) Complete
 - (b) Designate as a separate contract bid line item. Complete