

**THIS REPORT IS PROVIDED AS AN EXAMPLE ONLY. ALL PROJECT INFORMATION, NAMES, AND DATES ARE FICTITIOUS. THIS IS NOT INTENDED TO BE A FINAL REPRESENTATION OF THE WORK DONE OR RECOMMENDATIONS MADE BY CALTRANS FOR AN ACTUAL PROJECT.**

*Short Form - Storm Water Data Report*



Dist-County-Route: 07-LA-405  
 Post Mile Limits: 0.3/2.8  
 Project Type: Slope Paving  
 Project ID (or EA): 07-XXXXXX  
 Program Identification: HA42  
 Phase:         PID  
                   PA/ED  
                   PS&E

Regional Water Quality Control Board(s): Los Angeles - Region 4

- |    |  |                              |  |
|----|--|------------------------------|--|
| 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: 05/01/2011      Construction Completion Date: 09/01/2011  
 Separate Dewatering Permit (if yes, permit number)      Yes  Permit # \_\_\_\_\_ No   
 Erosivity Waiver      Yes  Date: N/A      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.*

Betsy Ross      09/23/10  
 [Betsy Ross), Registered Project Engineer/Landscape Architect      Date  
 I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:

Friedrich Wilhelm von Steuben      09/23/10  
 [Friedrich Wilhelm von Steuben), District/Regional SW      Date  
 Coordinator or Designee

[Stamp Required for PS&E only)

### 1. Project Description

This is an Annual Element Project that proposes the replacement of slope paving on Interstate 405 (I-405) at four bridge locations in the City of Long Beach, Los Angeles County. The scope of work consists of removing the existing slope paving at the bridge abutments, re-grading slopes and replacing with 4 inches of concrete to prevent surface erosion.

The Atherton Street location ultimately discharges to the San Gabriel River (0.3 miles from the project site), which is on the 2006 State Water Resources Control Board 303(d) List of Water Quality Limited Segments. The pollutants of concern are pH and Coliform bacteria. The discharge point is approximately 0.3 miles from the project site.

The Stearns Street, Woodruff Avenue, and Clark Avenue locations ultimately discharge to Los Cerritos Channel, which is listed as a 303(d) water body. The pollutants of concern are ammonia, bis(2ethylhexyl)phthalate/DEHP, chlordane, sediment, Coliform bacteria, copper, lead, trash and zinc. The discharge point for the Stearns Street site is approximately 0.2 miles from the site, the discharge point for the Woodruff Avenue site is approximately 0.8 miles from the site, and the discharge point for the Clark Avenue Site is approximately 2.0 miles from the site.

The project is within the City of Long Beach, which is an identified urban Municipal Separate Storm Sewer System (MS4) area. The hydrologic unit is the San Gabriel River, which has a watershed of 80,235 acres. The annual rainfall is 13.8 inches. There are no drinking water reservoirs and/or recharge facilities within the project limits. A 401 Certification is not required for this project.

The total disturbed soil area (DSA) is 1.12 acres. This area includes the slope paving areas that are being re-graded, re-grading of adjacent slopes to conform to the existing ground, and anticipated construction laydown areas. All of the proposed paved areas are replacements of existing paving, resulting in no added impervious area.

The Rainfall Erosivity Factor was calculated on July 30, 2010 using the Rainfall Erosivity Calculator for Small Construction Sites on the Environmental Protection Agency's website. Assuming Construction dates between May 1, 2011 and September 1, 2011, this calculation yielded a factor of 3.11. . Because the Rainfall Erosivity factor is less than 5 and the DSA is more than one but less than five acres, this project qualifies for a Rainfall Erosivity Waiver. During the design process, an order of work special provision shall be prepared that specifies the allowable construction dates. The following language shall be added to the Order of Work Standard Special Provision:

"This project qualifies for a rainfall erosivity waiver which is dependent on the project work window. This work window must be followed to allow the use of the erosivity waiver. If the schedule of construction is delayed, immediate notification is required to the Engineer so the applicability of the project erosivity waiver can be reevaluated. Any necessary changes related to complying with the Construction General Permit and working outside of the original work window will be at the cost of the contractor."

### 2. Construction Site BMPs

Because this project qualifies for a Rainfall Erosivity Waiver, a Water Pollution Control Program (WPCP) will be used in lieu of a Storm Water Pollution Prevention Plan (SWPPP).

Because all DSAs will ultimately be repaved, permanent erosion control measures are not anticipated to be necessary. Therefore, stormwater management techniques are focused on temporary water pollution control best management practices (BMPs). In cases where slopes will remain exposed overnight or for multiple days, slope interruption devices such as fiber rolls

should be installed, and sediment fence should be installed at the base of these slopes. Concrete wastes should be managed through the use of portable concrete washout facilities. Storm drain inlet protection should be applied throughout the project. Various waste management, materials handling, and other housekeeping BMPs should be used throughout the duration of the project. Construction sequencing should be scheduled to minimize impacts to stormwater.

The BMP costs for this Project are estimated based on the "Unit Costs" method presented in Appendix F.6.3 of the Caltrans *Project Planning and Design Guide*.

On September 15, 2010, William Alexander from the Construction Stormwater Unit met with the project team to review the construction site BMP strategy discussed above, and he concurred on the proposed strategy.

### 3. Required Attachments<sup>1</sup>

- Vicinity Map
- Evaluation Documentation Form
- Rainfall Erosivity Waiver

### 4. Supplemental Attachments

- SWDR Tracking Form
- Storm Water BMP Cost Summary (for Caltrans use only)

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<sup>1</sup> 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: 09-23-10

Project ID ( or EA): 07-XXXXXX

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. <u>FWS</u> (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. ( <u>Long Beach</u> ), 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.  <u>0 acres</u> (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. <u>FWS</u> (Dist./Reg. Design SW Coord. Initials) <u>BR</u> (Project Engineer Initials) <u>09/23/10</u> (Date)	✓		Document for Project Files by completing this form, and attaching it to the SWDR.

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

## Rainfall Erosivity Factor Calculator for Small Construction Sites

### Facility Information

Facility Name: I-405 Slope Paving  
Start Date: 05/01/2011  
End Date: 09/01/2011  
Latitude: 33.8022  
Longitude: -118.1230

### Erosivity Index Calculator Results

AN EROSIVITY INDEX VALUE OF **3.11** HAS BEEN DETERMINED FOR THE CONSTRUCTION PERIOD OF **05/01/2011 - 09/01/2011**.

A rainfall erosivity factor of less than 5.0 has been calculated for your site and period of construction. Contact your permitting authority to determine if you are eligible for a waiver from NPDES permitting requirements. If you are covered under EPA's [construction general permit](#) then you can use eNCl to submit your low erosivity waiver certification.

If your construction activity extends past the project completion date you specified above, you must recalculate the R factor using the original start date and a new project completion date. If the recalculated R factor is still less than 5.0, a new waiver certification form must be submitted before the end of the original construction period. If the new R factor is 5.0 or greater, the operator must submit a Notice of Intent to be covered by the Construction General Permit before the original project completion date.



Report Date	Dist EA	District	EA	County	Route	Beg PM	End PM	Descrip	Phase	LongSWDR	PhaseRptDate	Exempt	TBMP	Pollution Program	Land Disturbance Acreage	AddImpArea	PercentTreated	MS4Area	MS4C/Co	Water Bodies Affected	Criteria	BioStrip	BioSwale	Detention	Infiltration	InfilTrench	GSRD	TST	DryWeath	MedFilter	MCTT	WetBasin	Const Start	Const Comp	SWComment
9/23/2010	07-XXXX	7	XXXXXX	LA	405	0.3	2.8	Slope Pz PAVED	PAVED	FALSE	9/23/2010	TRUE	FALSE	WPCP	1.12	0	0	TRUE	Long Beac	Los Cerritos Channel, S N/A		0	0	0	0	0	0	0	0	0	0	0	5/1/2011	9/1/2011	

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Storm Water BMP Cost Summary

THIS INFORMATION IS FOR **CALTRANS INTERNAL USE ONLY**

Temporary Construction Site BMPs

BEES	Temporary Sediment Control	SSP/nSSP (#, Y or N)	STD. Det. (Y or N)	Quantity	Unit	Unit Cost (\$/Unit)	Cost
074029	Temp. Silt Fence	07-430	Yes	600	ft	\$12	\$ 7,200
074028	Temporary Fiber Roll	07-420	Yes	1000	ft <sup>2</sup>	\$5	\$ 5,000
074038	Temp. Drainage Inlet Protection	07-490	Yes	6	EA	\$500	\$ 3,000
<b>Subtotal Sediment Control BMPs</b>							<b>\$ 15,200</b>

BEES	Temporary Waste Management Control	SSP/nSSP (#, Y or N)	STD. Det. (Y or N)	Quantity	Unit	Unit Cost (\$/Unit)	Cost
074043	Temp. Concrete Washout (Portable)	07-407	No	4	EA	2,000	\$ 8,000
<b>Subtotal Waste Management &amp; Materials Handling BMPs</b>							<b>\$ 8,000</b>

BEES	Temporary Non-Storm Water Management	SSP/nSSP (#, Y or N)	STD. Det. (Y or N)	Quantity	Unit	Unit Cost (\$/Unit)	Cost
CSM*	Paving & Grinding Operations						\$ -
CSM*	Vehicle and Equipment Cleaning	07-346	No				\$ -
CSM*	Vehicle and Equipment Fueling	07-346	No				\$ -
CSM*	Vehicle and Equipment Maintenance	07-346	No				\$ -
CSM*	Concrete Curing	07-346	No				\$ -
CSM*	Concrete Finishing	07-346	No				\$ -
074016	*Construction Site Management	07-346	No	1	LS	12,000	\$ 12,000
<b>Subtotal Non-Storm Water Management</b>							<b>\$ 12,000</b>

BEES	Miscellaneous Items	SSP/nSSP (#, Y or N)	STD. Det. (Y or N)	Quantity	Unit	Unit Cost (\$/Unit)	Cost
074017	Water Pollution Control (WPCP)	07-340	No	1	LS	1,100	\$ 1,100
066596	Additional Water Pollution Control			1	LS	1,100	\$ 1,100
066595	Water Pollution Control Maintenance Sharing			1	LS	4,000	\$ 4,000
<b>Subtotal Miscellaneous Items</b>							<b>\$ 6,200</b>

<b>Total Construction Site BMP Costs</b>							<b>\$ 41,400</b>
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Notes:

Estimated per Unit Cost Method in Section F.6.3 in PPDG

Water Pollution Control Items estimated using Table F-6 with total estimated project cost of \$700K



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