



Construction Site Water Pollution Control Cost Report  
Contract No. 43A0138 – Task Order No. 04

Final Report

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## Executive Summary

### Purpose of the Report

The purpose of this report is to recommend an estimating procedure that will assist Caltrans engineers in estimating the costs of temporary water pollution control measures undertaken during the course of constructing a project. The report is geared toward defining a percentage of the total estimated construction cost that is likely to be spent on temporary water pollution control. In addition, the report discusses the actual costs of temporary water pollution control in terms of final amounts paid, and contract change orders (CCOs). The report evaluates the cost of construction site water pollution control, the factors affecting these costs, and recommends an estimating procedure that takes these factors into account.

### Factors Studied

The following factors were analyzed in the report:

- Project location by Caltrans District and Regional Water Quality Control Board region
- Number of water pollution control bid items
- Cost of the project
- Area receiving temporary erosion control
- Project type
- Period of construction (number of rainy seasons)

### Focus of the Report

This report focuses on temporary measures installed during construction to prevent water pollution resulting from construction activities. Permanent pollution control features are not included in the analysis. In addition, dewatering activities are not addressed because they were considered unique to specific projects. The analysis in the report is based on the premise that the contractor's bid represents the "market price" Caltrans is paying for construction. The Engineer's Estimate is an estimate of the market price, as opposed the actual cost to the contractor for doing the work. The accuracy of the Engineer's Estimate for unit-priced items is a function of the accuracy of the estimated quantity of the item, as well as the unit price. This report focuses on total cost of bid items and does not address unit costs or quantity estimates. The report does not address other elements of project cost, such as right-of-way acquisition and state-furnished materials.

### Summary of Recommendations and Conclusions

The analysis is based on the percentage of the total construction cost expended on temporary water pollution control activities. The data gathered indicates that Caltrans Engineer's Estimates for the cost of temporary water pollution control bid items exceed the total bid costs for these items; they also exceed the final payments actually made for water pollution control bid items. When supplementary bid items are included in the analysis, the total amount allowed for supplementary water pollution control activities frequently exceeds the amount of water pollution control change orders.

Of the factors listed above, the one that has the largest impact on water pollution control costs is the location (RWQCB region) of the project. The size of the project and the type of project also has a significant effect on the cost of WPC bid items. The number of separate WPC bid items does have an impact on the estimated cost of WPC activities; however, it does not appear to affect the final cost of the projects when the cost of CCOs is factored in. The area receiving temporary erosion control, and the period of construction, do not appear to affect costs incurred when these costs are analyzed as a percent of total construction cost. The principal recommendations are a revised table for estimating the cost of WPC efforts during the project planning phase, and a method for utilizing this estimate as a check of the cost of WPC items during the development of the Engineer's Estimate during the project design phase.

# Technical Report

## Background Information

Caltrans has implemented a comprehensive and coordinated statewide effort to prevent pollution in storm water runoff from Caltrans facilities. This effort is directed at complying with the requirements of the federal Clean Water Act (CWA) and the federal regulations promulgated by the Environmental Protection Agency (EPA) in support of the CWA. In California, the EPA delegated the authority to issue National Pollution Discharge Elimination System (NPDES) permits required by the CWA and associated regulations to the State Water Resources Control Board (SWRCB) and the nine RWQCBs. The SWRCB subsequently issued two statewide NPDES permits affecting California Department of Transportation construction projects. The first of these permits, NPDES CA000002 General Construction Permit, specifies requirements that must be met during construction. The second permit, NPDES CA000003 Caltrans Permit, governs discharges from Caltrans properties, facilities, and activities, and requires that the Caltrans construction program comply with the requirements of the general construction permit.

Caltrans has incorporated the requirements of these permits into its contract documents. Erosion control measures to meet the requirements of CA000003 for the Caltrans facilities are incorporated as individual items in the bid documents. Examples include Erosion Control Type C (seed, compost etc.). The requirements for construction-site water pollution control measures (those measures in place only during construction), and for the preparation of storm water pollution prevention plans (SWPPPs), are also incorporated in the contract documents.

The approach to meeting the requirements of the general permit for construction activities has evolved. Initially Caltrans had two lump-sum bid items, one to prepare the SWPPP required by the permit, and the other to implement the plan (including maintenance). The current practice is to retain the two lump-sum bid items, but to add separate bid items for selected elements of work identified by Caltrans as necessary to implement the SWPPP. For example, in addition to lump-sum bid items for SWPPP preparation and WPC, there might be individual bid items for silt fencing, fiber rolls, and concrete washouts. Elements of work for which specific bid items are provided are excluded from the lump-sum bid for water pollution control.

## Study Methodology

Data used in this study was gathered from a number of electronic sources. Caltrans provided additional information that was not readily available on the Internet, drawing on files maintained at Caltrans headquarters. The data types, sources, and methods used for evaluating the data are described below.

### PROJECT SELECTION CRITERIA

The Study is based on data from 101 projects. Each of the projects included in the Study meet the following criteria:

- The project was completed within the past three years, and prior to November 2004
- Each project has an SWPPP
- The final constructed value of each included project is in excess of \$250,000

### METHOD OF SELECTING PROJECTS

The process for selecting projects entailed a number of steps. Based on an initial survey of the data, projects potentially meeting the project criteria were identified for each District. The second step was to identify the total value of projects under construction within each District. Work on the toll bridge projects was excluded from the analysis because the value of these projects would significantly skew the results. The number of potential projects and the total value of all projects within each District (as a percentage of potential projects and the total value of projects statewide) were equally weighted to develop an initial apportionment of the 101 projects to be studied by District. The preliminary data from approximately 300 projects was reviewed

to select the 101 projects for which detailed data would be collected. During the course of gathering the data, 5 projects of the original 101 were found to not meet the criteria; other projects were substituted for them. The data for each project is contained in Appendix 4 “Project Information.”

## INTERNET DATA SOURCES

The websites utilized to provide information included the following:

- **The Statement of Ongoing Contracts** (<http://www.dot.ca.gov/hq/construc/>): This site was used to identify potential contracts to be studied. Information available at the site included the project EA, location, description, bid cost, period of construction, and final cost.
- **Current Advertised Projects** ([http://www2.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/](http://www2.dot.ca.gov/hq/esc/oe/project_ads_addenda/)): This site was used to review contract documents for the more current projects. Data extracted from this site included bid items of interest to the study, including quantities, identification of the RWQCB region in which the project was constructed, the special provision regarding payment for preparation of the SWPPP, WPC, maintenance of WPC items, and sampling and testing as required by the SWPPP.
- **Contract Payments and Information** (<http://www.dot.ca.gov/hq/asc/oap/payments/>): This site was used to gather data on final payment quantities and costs.

## CALTRANS DATA

Data provided by Caltrans that was not available through the Internet included the following:

- **Contract Change Orders (CCOs):** Caltrans provided a listing of all CCOs written for the projects included in the study.
- **Contract Documents:** Contract documents for contracts not listed on the *project\_ads\_addenda* website were provided by Caltrans.
- **Engineer’s Estimates:** Detailed Engineer’s Estimates, including supplemental bid items, were provided by Caltrans.

## DATA COLLECTION FOR INDIVIDUAL PROJECTS

Once an agreed-upon list of projects was determined, data was collected from the sources listed above. The following information was collected on each project:

- **Caltrans District** – The Caltrans district in which the work occurred
- **Regional Water Quality Control Board (RWQCB) region** – The RWQCB having jurisdiction over the project
- **Location** – The route and stationing of the project
- **Project Type** – Based on the description contained in the project documents, each project was classified as either roadway, structure, landscaping, or other
- **Calendar Dates** – Construction start and end dates
- **Number of Rainy Seasons** – Calculated based on the rainy season defined in the contract documents and the construction start and end dates
- **Information related to specific bid items** – Information from the contract documents related to methods of payment for WPC items, application rates as appropriate, and definitions of bid items
- **Cost Data** – Engineer’s estimates, contractor bids, and final payment quantities and amounts
- **Information related to supplemental bid items** – Listing of Engineer’s Estimates for supplemental bid items to identify those related to WPC efforts



During this process it became apparent that one element of information would not be available. This element was the Disturbed Soil Area (DSA) for each project. This item is discussed further in the section dealing with issues related to data gathering, as well as in the section on recommendations. Notice of Intent (NOI) or Notice of Construction (NOC) forms for individual projects did not provide this information, as the DSA information provided was approximate. As an example, a review of information for District 4 projects revealed DSA defined as “more than 1 acre, more than 5 acres, 2–5 acres, 10+ acres,” etc. At the time of the task order, accurate DSA information was not tracked. In lieu of using DSA, a decision was made to determine the area of the project receiving temporary soil stabilization or temporary erosion control. This was done by reviewing application rates contained in the special provisions for the various components utilized. The area receiving the temporary soil stabilization/erosion control was then calculated based on the quantities of erosion control materials (as listed on the bid sheet).

## Study Results

The study findings were evaluated against multiple criteria (project location, project size, etc.) to identify the factors that affect the estimated cost of construction site water pollution control and the final cost. The results are described below.

### STATEWIDE

**Engineer’s Estimates:** The average Engineer’s Estimate for total bid costs statewide was 115 percent of the average contractor’s total bid. The Engineer’s Estimate for WPC bid items—including preparation of SWPPP, water pollution control measures, and separate water pollution control bid items—averaged 1.23 percent of the Engineer’s Estimate for the total bid cost. When supplemental items were included in the analysis, the Engineer’s Estimate for the total cost of WPC work was 1.93 percent of the Engineer’s Estimate of total cost. On a statewide basis, the average Engineer’s Estimate for WPC bid items was approximately 152 percent of the contractor bids for the same work. Table 1 shows a comparison by district of the Engineer’s Estimate and the contractor’s bid.

**Contractor Bids:** The contractor’s bid cost statewide for WPC bid items, including preparation of SWPPP, water pollution control, and separate water pollution control bid items, averaged 0.94 percent of the contractor’s total bid. **See Table 1.**

**Table 1**  
**Comparison of Engineer’s Estimate and Contractor’s Bid**

District	No of Projects	EEWPCBI	EETBC	EEWPCBI /EETBC	CBCWPC	CTBC	CBCWPC /CTBC	EETBC/ CTBC	EEWPCBI /CBCWPC
1	5	\$40,200	\$5,827,741	0.69%	\$39,160	\$6,075,928	0.64%	95.92%	102.66%
2	7	\$48,351	\$4,938,393	0.98%	\$33,150	\$4,332,469	0.77%	113.99%	145.86%
3	7	\$44,712	\$8,488,273	0.53%	\$32,879	\$7,519,524	0.44%	112.88%	135.99%
4	15	\$85,454	\$12,081,738	0.71%	\$82,830	\$10,021,291	0.83%	120.56%	103.17%
5	7	\$51,347	\$5,617,977	0.91%	\$29,224	\$5,184,598	0.56%	108.36%	175.70%
6	16	\$63,013	\$7,130,694	0.88%	\$22,644	\$6,544,303	0.35%	108.96%	278.28%
7	16	\$127,369	\$8,757,986	1.45%	\$48,475	\$7,072,326	0.69%	123.83%	262.75%
8	4	\$31,828	\$10,285,521	0.31%	\$32,000	\$10,572,671	0.30%	97.28%	99.46%
9	2	\$43,600	\$17,356,540	0.25%	\$88,390	\$17,366,987	0.51%	99.94%	49.33%
10	3	\$17,083	\$2,874,145	0.59%	\$31,567	\$2,554,124	1.24%	112.53%	54.12%
11	11	\$354,607	\$11,412,841	3.11%	\$259,841	\$8,944,258	2.91%	127.60%	136.47%
12	8	\$72,913	\$3,343,551	2.18%	\$33,674	\$2,809,281	1.20%	119.02%	216.53%
Statewide	101	\$101,877	\$8,263,994	1.23%	\$67,030	\$7,162,073	0.94%	115.39%	151.99%

**Legend**

EEWPCBI - Average Engineer's Estimate for All WPC Bid Items

EETBC - Average Engineer's Estimate of Total Bid Cost

CBCWPC - Average Contractor's Bid for All WPC Bid Items

CTBC - Average Contractor's Total Bid

NOTE: Table A-1 and A-2 (Appendix 3) show a more detailed breakdown by District and RWQCB region



**Supplemental Items:** When supplemental items are included in the analysis, the Engineer’s Estimate for the total cost of WPC work averaged 1.93 percent of the total estimated cost of the project (including all supplemental work). The average Engineer’s Estimate for total contract cost including supplemental work was approximately 107 percent of the final total cost. The Engineer’s Estimate for all WPC items, including supplemental items, averaged approximately 216 percent of the total actual cost of all WPC items. Table 2 shows a comparison of the Engineer’s Estimates, including supplemental items and the final cost of projects.

Of the 101 projects in the study, 12 had CCOs clearly identified as being for SWPPP maintenance. The percentage of the average cost of WPC bid items expended on maintenance varied from 0% to 116%. The average expenditure on a per project basis was 20%. Of the project studied, three had clearly identified CCOs to provide for sampling and analysis. The CCO for one of the projects (09-213114) was for almost \$84,000. The other two had costs averaging \$1,600. The wide variations in the final costs of these supplemental items are governed to a very large extent by the weather during construction. Obviously, maintenance of temporary BMPs during a very wet rainy season is going to be far more expensive than maintenance during a relatively dry rainy season. Similarly, the cost of sampling and analysis is very dependent on the weather.

**Table 2**  
**Comparison of Engineer’s Estimate with Final Cost**

District	No of Projects	EEWPCC	EETC	EEWPCC/ EETC	TCWPC	FC	EEWPCC/ TCWPC	EETC/ FC
1	5	\$40,740	\$6,087,861	0.67%	\$62,003	\$7,843,649	65.71%	77.62%
2	7	\$68,780	\$5,212,878	1.32%	\$29,118	\$5,018,074	236.21%	103.88%
3	7	\$55,141	\$8,848,244	0.62%	\$40,451	\$8,122,522	136.32%	108.93%
4	15	\$95,554	\$12,505,092	0.76%	\$102,689	\$11,670,395	93.05%	107.15%
5	7	\$68,347	\$5,893,020	1.16%	\$140,142	\$5,826,586	48.77%	101.14%
6	16	\$87,060	\$7,382,659	1.18%	\$39,661	\$7,295,711	219.51%	101.19%
7	16	\$385,306	\$9,248,452	4.17%	\$61,246	\$7,663,695	629.11%	120.68%
8	4	\$34,078	\$10,410,326	0.33%	\$32,650	\$12,476,098	104.37%	83.44%
9	2	\$43,600	\$17,888,505	0.24%	\$218,973	\$18,992,111	19.91%	94.19%
10	3	\$17,083	\$3,014,695	0.57%	\$36,487	\$2,966,928	46.82%	101.61%
11	11	\$487,811	\$12,140,184	4.02%	\$171,249	\$9,956,913	284.85%	121.93%
12	8	\$79,851	\$3,453,681	2.31%	\$34,282	\$2,960,403	232.92%	116.66%
Statewide	101	\$166,537	\$8,627,983	1.93%	\$76,919	\$8,083,105	216.51%	106.74%

**Legend**

EEWPCC - Average Engineer's Estimate of WPC Items plus WPC Supplemental Items

EETC -Average Engineer's Estimate of Total Cost plus all Supplemental Items

TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

FC -Average Final Cost per Final Pay Estimate

NOTE: Table A-1 and A-2 show a more detailed breakdown by District and RWQCB region

**Contract Change Orders:** Contract Change Orders (CCOs) were written on all 101 projects in the Study. CCOs that involved temporary water pollution control activities were written on approximately 40 percent of the projects studied. Statewide, WPC CCOs averaged 0.30 percent of the final cost of the project, based on the final pay estimate. Table 3 shows a comparison of WPC cost and final costs by District. Table 4 shows the number of projects falling within the ranges indicated for the percentage of the cost of WPC CCOs compared to all CCOs written, and final cost of projects. It should be noted that the cost of WPC CCOs was less than 0.50 percent of the final cost of the project for approximately 90 percent of all projects studied.



**Table 3**  
**Comparison of CCOs and Final Costs**

District	No of Projects	FCWPC	WPC CCOs	TCWPC	FC	WPC CCOs/ FC	TCWPC/ FC
1	5	\$39,243	\$22,760	\$62,003	\$7,843,649	0.29%	0.79%
2	7	\$29,118	\$0	\$29,118	\$5,018,074	0.00%	0.58%
3	7	\$29,991	\$10,459	\$40,451	\$8,122,522	0.13%	0.50%
4	15	\$84,519	\$18,170	\$102,689	\$11,670,395	0.16%	0.88%
5	7	\$36,514	\$103,628	\$140,142	\$5,826,586	1.78%	2.41%
6	16	\$22,482	\$17,180	\$39,661	\$7,295,711	0.24%	0.54%
7	16	\$48,475	\$12,771	\$61,246	\$7,663,695	0.17%	0.80%
8	4	\$31,775	\$875	\$32,650	\$12,476,098	0.01%	0.26%
9	2	\$88,390	\$130,583	\$218,973	\$18,992,111	0.69%	1.15%
10	3	\$31,567	\$4,920	\$36,487	\$2,966,928	0.17%	1.23%
11	11	\$123,821	\$47,428	\$171,249	\$9,956,913	0.48%	1.72%
12	8	\$33,490	\$792	\$34,282	\$2,960,403	0.03%	1.16%
Statewide	101	\$52,448	\$24,472	\$76,919	\$8,083,105	0.30%	0.95%

**Legend**

FCWPC - Average cost of WPC Bid Items per Final Pay Estimate  
 WPC CCOs - Average Total of WPC CCOs  
 TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs  
 FC - Average Final Cost per Final Pay Estimate

**Table 4**  
**WPC CCOs as a Percent of Total CCOs and Final Cost**

Percentage of Cost		WPC CCOs/ Total CCOs		WPC CCOs/ FC	
From	To	No of Projects	% of Projects	No of Projects	% of Projects
	0%	58	57.43%	59	58.42%
0%+	0.10%	1	0.99%	17	16.83%
0.10%+	0.50%	11	10.89%	13	12.87%
0.50%+	1.00%	9	8.91%	8	7.92%
1.00%+	3.00%	6	5.94%	3	2.97%
3.00%+	10.00%	11	10.89%	1	0.99%
10.00%+		5	4.95%		
		101	100.00%	101	100.00%

**Legend**

WPC CCOs - Average Total of WPC CCOs  
 Total CCO - Average Cost of all CCOs  
 FC - Average Final Cost per Final Pay Estimate

**Total Costs:** Statewide, total WPC cost (including final pay for WPC bid items and WPC CCOs) averaged 0.95 percent of final project costs. Table 5 shows the number of projects within certain ranges of the average percents of total WPC costs versus total costs. When the percentage of the final cost paid for WPC work (including CCOs) is examined on an individual project basis, the average of these percentages is 1.37 percent. Approximately 75 percent of the projects studied were below this average. Approximately 10 percent of the projects studied exceeded 3.00 percent of final cost spent on WPC work. Table 6 shows detailed information on these 12 projects. As can be seen from the table, 10 of the 12 projects had a final cost of less than \$2.5 million. Seven of the projects were located in Region 9.



**Table 5**  
**Total Cost of WPC as a Percent of Final Cost**

Percentage of Final Cost		No of Projects	Average		
From	To		TCWPC	FC	TCWPC/ FC
0.00%	0.50%	32	\$29,658	\$9,799,131	0.30%
0.50%+	1.00%	31	\$60,040	\$8,408,707	0.71%
1.00%+	1.50%	12	\$132,234	\$11,285,382	1.17%
1.50%+	2.00%	7	\$32,436	\$1,888,876	1.72%
2.00%+	3.00%	7	\$234,632	\$10,030,454	2.34%
3.00%+	4.00%	5	\$36,193	\$1,068,697	3.39%
4.00%+	5.00%	3	\$95,427	\$2,220,603	4.30%
5.00%+	6.00%	2	\$82,925	\$1,397,039	5.94%
>6.00%		2	\$434,590	\$4,246,106	10.24%
Statewide		101	\$76,919	\$8,083,105	0.95%
Average of Projects Taken Individually					1.37%

**Legend**

TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs  
 FC - Average Final Cost per Final Pay Estimate

**Table 6**  
**Projects Exceeding 3.00% Total Cost for Water Pollution Control**

Projects Exceeding 3.00% Total Cost of Water Pollution Control								
EA Number	Project Type	Region	EEWPCC	CBCWPC	CTBC	FC	TCWPC	TCWPC/ FC
11-230904	Other	9	\$26,400	\$13,620	\$397,974	\$475,862	\$14,674	3.08%
12-0f3804	Other	9	\$24,500	\$4,000	\$303,300	\$291,832	\$9,097	3.12%
11-066104	Landscaping	9	\$69,590	\$74,451	\$2,136,878	\$2,165,513	\$70,204	3.24%
05-0J3304	Roadway	3	\$42,090	\$8,465	\$1,104,414	\$650,096	\$22,271	3.43%
12-097904	Roadway	9	\$117,000	\$66,188	\$1,626,786	\$1,760,185	\$64,719	3.68%
11-224404	Landscaping	9	\$86,200	\$50,500	\$1,335,435	\$1,260,696	\$51,181	4.06%
11-073404	Roadway	9	\$178,265	\$178,600	\$4,222,222	\$4,991,880	\$216,974	4.35%
11-234724	Landscaping	9	\$24,903	\$19,500	\$414,854	\$409,234	\$18,126	4.43%
07-4j3204	Other	4	\$25,500	\$29,850	\$511,266	\$525,974	\$29,850	5.68%
07-166104	Structure	4	\$72,000	\$136,000	\$1,484,120	\$2,268,104	\$136,000	6.00%
05-016174	Structure	5	\$71,340	\$80,100	\$6,793,144	\$8,161,807	\$833,430	10.21%
07-4j3504	Other	4	\$19,500	\$35,750	\$376,953	\$330,405	\$35,750	10.82%

**Legend**

EEWPCC - Engineer's Estimate of WPC Items plus WPC Supplemental Items  
 CBCWPC - Contractor's Bid for All WPC Bid Items  
 CTBC - Contractor's Total Bid  
 FC - Final Cost per Final Pay Estimate  
 TCWPC - Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

**PROJECT LOCATION**

**By District:** Table 7 shows the cost ratios by District for four areas:

- Engineer's Estimate for WPC bid items versus the Engineer's Estimate for the total bid;

- Engineer’s Estimate for the total cost of WPC work (including supplemental items) versus the Engineer’s Estimate for the total cost of the project (including all supplemental items);
- Contractor’s bid for WPC items versus the contractor’s to the bid;
- Total cost of WPC items (including CCOs) versus the final cost of the project as shown on the final pay estimate.

**Table 7  
 Cost Ratios By District**

District	No of Projects	EEWPCBI/ EETBC	EEWPCC/ EETC	CBCWPC/ CTBC	TCWPC/ FC
1	5	0.69%	0.67%	0.64%	0.79%
2	7	0.98%	1.32%	0.77%	0.58%
3	7	0.53%	0.62%	0.44%	0.50%
4	15	0.71%	0.76%	0.83%	0.88%
5	7	0.91%	1.16%	0.56%	2.41%*
6	16	0.88%	1.18%	0.35%	0.54%
7	16	1.45%	4.17%	0.69%	0.80%
8	4	0.31%	0.33%	0.30%	0.26%
9	2	0.24%	0.24%	0.51%	1.15%
10	3	0.59%	0.57%	1.24%	1.23%
11	11	3.11%	4.02%	2.91%	1.72%
12	8	2.18%	2.31%	1.20%	1.16%
Statewide	101	1.23%	1.93%	0.94%	0.95%

\*Becomes 0.65% with one project removed.

It should be noted that District 5 had one project (05-016174) that had WPC CCOs totaling over \$700,000. If this project is removed from consideration, the ratio of total cost of WPC work versus final cost is reduced to 0.65 percent for District 5.

The Engineer’s Estimate for WPC bid items ranged from 0.24 percent in District 9 to 3.11 percent in District 11. The contractor’s bid ranged from 0.30 percent in District 8 to 2.91 percent in District 11. Both the engineer’s and the contractor’s estimates were less than 1.00 percent in 9 of the 12 districts. The final cost of WPC activities (if we take the one project in District 5 out of consideration) ranged from 0.26 percent in District 8 to 1.72 percent in District 11. Actual final costs were less than 1.00 percent in 8 of the 12 districts.

Both the engineer and the contractor consider Districts 11 and 12 to be the districts requiring the most WPC work. This is borne out by the fact that these districts have two of the three highest ratios of WPC costs paid. Both the engineer and the contractor agree District 8 is among the least expensive districts in terms of WPC costs.

**By Regional Water Quality Control Board (RWQCB) Region:** Table 8 shows the same cost ratios described in the paragraphs above by Regional Water Quality Control Board (RWQCB) region. When these ratios are viewed in this manner it becomes clear that contractors believe the cost of WPC bid items falls within a very narrow range of between 0.51 percent and 0.76 percent except in Region 9, where the bid cost of WPC items represents 3.28 percent. Final costs for WPC work were less than 1.00 percent in six of the nine regions.

**Table 8  
 Cost Ratios By RWQCB Region**

Region	No of Projects	EEWPCBI/ EETBC	EEWPCC/ EETC	CBCWPC/ CTBC	TCWPC/ FC
1	7	0.82%	0.85%	0.65%	0.62%
2	14	0.67%	0.72%	0.76%	0.84%
3	6	0.82%	1.72%	0.51%	0.60%
4	15	1.79%	4.20%	0.64%	0.65%
5	30	0.74%	0.96%	0.63%	1.18%*
6	6	1.68%	2.04%	0.75%	1.11%
7	2	1.77%	2.31%	0.54%	0.38%
8	8	0.84%	0.90%	0.58%	0.54%
9	13	3.70%	4.47%	3.28%	2.15%
Statewide	101	1.23%	1.93%	0.94%	0.95%

\*Becomes 0.71% with one project removed.

Legend

- EEWPCBI - Average Engineer's Estimate for All WPC Bid Items
- EETBC - Average Engineer's Estimate of Total Bid Cost
- EEWPCC - Average Engineer's Estimate of WPC Items plus WPC Supplemental Items
- EETC - Average Engineer's Estimate of Total Cost including Supplemental Items
- CBCWPC - Average Contractor's Bid for All WPC Bid Items
- CTBC - Average Contractor's Total Bid
- TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs
- FC - Average Final Cost per Final Pay Estimate

NOTE: Table A-1 and A-2 show a more detailed breakdown by District and RWQCB region

**NUMBER OF WPC BID ITEMS**

Table 9 shows an analysis of the total cost of WPC work, including CCOs and final project cost listed by the number of separate WPC bid items. There is no discernible pattern in the cost of water pollution control as a function of the number of WPC bid items. The line showing costs with two separate WPC bid items includes the project in District 5 that had over \$700,000 in WPC CCOs. If this project is removed from consideration, the ratio of total cost of WPC work to final cost for projects with two separate WPC bid items becomes 1.38 percent. Table 10 shows the cost of the SWPPP, Water Pollution Control, and separate WPC bid items, based on final project cost for projects which had separate WPC bid items (CBSWPPPO) in the Engineer's Estimate.

**Table 9**  
**Final Cost and Total Cost by Number of Bid Items**

Number of Separate WPC Bid Items *	No of Projects	FC	FCWPC	FCWPC/FC	TCWPC	TCWPC/FC
0	62	\$7,303,271	\$30,170	0.41%	\$43,685	0.60%
1	10	\$4,665,286	\$47,782	1.02%	\$58,645	1.26%
2	4	\$2,956,056	\$40,581	1.37%	\$219,583	7.43%**
3	9	\$10,360,102	\$69,598	0.67%	\$82,916	0.80%
4	3	\$1,985,963	\$35,647	1.79%	\$35,647	1.79%
5	6	\$9,430,873	\$94,915	1.01%	\$99,719	1.06%
6	5	\$20,875,957	\$245,329	1.18%	\$357,936	1.71%
7	2	\$22,474,940	\$128,544	0.57%	\$177,206	0.79%
Statewide	101	\$8,083,105	\$52,448	0.65%	\$76,919	0.95%

\* Prepare SWPPP and Water Pollution Control not considered separate WPC bid items.

\*\* Becomes 1.38% with one project removed.

Legend

FC - Average Final Cost per Final Pay Estimate

FCWPC - Average cost of WPC Bid Items per Final Pay Estimate

TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

**Table 10**  
**Projects with Separate WPC Bid Items**

Projects with Separate WPC Bid Items						
Final Cost of Project		No of Projects	CBSWPPP	CBSWPPPI	CBSWPPPO	
From	To					
\$0	\$1,000,000	4	\$ 3,125	\$ 4,675	\$ 4,676	
\$1,000,000	\$1,500,000	3	\$ 3,817	\$ 5,683	\$ 18,770	
\$1,500,000	\$3,250,000	10	\$ 5,220	\$ 25,140	\$ 18,448	
\$3,250,000	\$6,000,000	5	\$ 5,100	\$ 39,700	\$ 64,267	
\$6,000,000	\$12,000,000	5	\$ 4,300	\$ 36,000	\$ 20,807	
\$12,000,000	\$50,000,000	12	\$ 5,975	\$ 47,750	\$ 231,023	

Legend

CBSWPPP – Average Contractor's Bid Prepare Storm Water Pollution Prevention Plan

CBSWPPPI – Average Contractor's Bid Water Pollution Control

CBSWPPPO – Average Contractor's Total Bid for all Separate WPC Bid Items

During the period covered by this Study, Caltrans introduced the concept of separate WPC bid items. Contractors did not have the opportunity to develop a history of unit costs for these items of work. As a result, unit costs as bid varied significantly and, from a contractor's point of view, they were undoubtedly conservative. As contractors gain more experience and develop unit costs based on actual history, the cost of these items should stabilize.

**Storm Water Pollution Prevention Plan:** The bid cost for preparing a SWPPP (Item Code 074019) averaged approximately \$5,000. Bids ranged from a high of \$35,000 on a \$21 million project to a low of \$500 on a \$13 million project. Both of these projects were located in District 4.

**Water Pollution Control:** "Water Pollution Control" is the lump sum bid item that includes all temporary water pollution control implementation costs not identified as separate WPC bid items. The bid cost for water pollution control (Item Code 074020) averaged approximately \$28,000. For the 62 projects that did not have



any separate WPC bid items, the average was approximately \$25,000. It should be recognized that projects with no separate WPC bid items include the earliest projects in the study; this may account for some of the difference in average cost.

**Separate Contract Bid Items:** There is no discernible pattern in the cost impact of separate WPC bid items. When these costs are viewed as a percent of the final cost paid for WPC bid items or the total cost including CCOs as shown on the final pay estimate. Contracts with two, four, or seven separate WPC bid items averaged lower bids for water pollution control compared to projects with no additional items, while projects with one, three, five, or six separate items had increased costs for water pollution control.

Table 11 shows an analysis of the number of WPC bid items, and the cost of these items, WPC CCOs and the total coast of work.

**Table 11  
 Analysis of Number WPC Bid Items**

Number of Separate WPC Bid Items	No of Projects	CTBC	CBSWPPP	CBSWPPPI	CBSWPPPO	WPC CCOs	TCWPC
0	62	\$6,476,894	\$5,089	\$25,377	\$0	\$13,516	\$43,685
1	10	\$4,281,166	\$5,300	\$32,920	\$8,475	\$10,863	\$58,645
2	4	\$2,554,312	\$3,125	\$16,625	\$11,580	\$179,001	\$219,583
3	9	\$9,530,934	\$4,578	\$28,111	\$46,054	\$13,318	\$82,916
4	3	\$1,941,233	\$5,000	\$20,033	\$17,224	\$0	\$35,647
5	6	\$8,218,787	\$4,442	\$39,142	\$55,598	\$4,805	\$99,719
6	5	\$17,950,871	\$8,700	\$54,000	\$462,912	\$112,607	\$357,936
7	2	\$19,051,917	\$1,500	\$12,500	\$105,888	\$48,662	\$177,206
Statewide	101	\$7,162,073	\$5,053	\$27,842	\$34,229	\$24,472	\$76,919

		Percent of CTBC			Percent of FC	
0	62	0.08%	0.39%	0.00%	0.19%	0.60%
1	10	0.12%	0.77%	0.20%	0.23%	1.26%
2	4	0.12%	0.65%	0.45%	6.06%	7.43%
3	9	0.05%	0.29%	0.48%	0.13%	0.80%
4	3	0.26%	1.03%	0.89%	0.00%	1.79%
5	6	0.05%	0.48%	0.68%	0.05%	1.06%
6	5	0.05%	0.30%	2.58%	0.54%	1.71%
7	2	0.01%	0.07%	0.56%	0.22%	0.79%
Statewide	101	0.07%	0.39%	0.48%	0.30%	0.95%

Legend

- CTBC - Average Contractor's Total Bid Cost
- CBSWPPP - Average Contractor's Bid for Prepare Storm Water Pollution Prevention Plan
- CBSWPPPI - Average Contractor's Bid for Water Pollution Control
- CBSWPPPO - Average Contractor's for all Separate Bid Items
- WPC CCOs - Average Total of Water Pollution Control Related CCOs
- TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

## PROJECT COST

The cost of the project has an effect on the cost of WPC activities. Table 12 shows that the final water pollution control costs for small projects (less than \$1,000,000) average 2.66 percent of the final cost. This percentage decreases to 0.80 percent for large projects (those greater than \$12,000,000). The pattern is the same for contractor bids.

**Table 12  
 Cost of Project**

Final Cost of Project		No of Projects	CBCWPC/ CTBC	TCWPC/ FC
From	To			
\$0	\$1,000,000	11	2.30%	2.66%
\$1,000,000	\$1,500,000	10	1.39%	1.30%
\$1,500,000	\$3,250,000	21	1.57%	1.49%
\$3,250,000	\$6,000,000	19	1.12%	1.16%
\$6,000,000	\$12,000,000	19	0.46%	1.01%
\$12,000,000	\$50,000,000	21	0.95%	0.80%

Legend

CBCWPC - Average Contractor's Bid for All WPC Bid Items

CTBC - Average Contractor's Total Bid

FC - Average Final Cost per Final Pay Estimate

TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

## AREA RECEIVING TEMPORARY EROSION CONTROL

Table 13 shows the percent of costs devoted to WPC items, based on the area to which permanent erosion control measures were applied. For the purposes of this Study, permanent erosion control measures were defined as bid items with item codes in the 203000 series, as opposed to the erosion control items with item codes in the 074000 series. Based on this definition, there was no discernible pattern in the cost of water pollution control activities based on the area receiving temporary erosion control.

**Table 13  
 WPC Bid Items as a Percentage of Costs, by Amount of Erosion Control**

Area		No. of Projects	EEWPCBI/ EETBC	CBCWPC/ CTBC	TCWPC/ FC
From	To				
0	0	42	1.67%	0.89%	0.85%
0+	2	19	2.14%	1.00%	1.22%
2+	6	22	0.59%	0.63%	0.93%
6+	70	18	1.25%	1.15%	0.97%
Statewide		101	1.23%	0.94%	0.95%

Legend

EEWPCBI - Average Engineer's Estimate for All WPC Bid Items

EETBC - Average Engineer's Estimate of Total Bid Cost

CBCWPC - Average Contractor's Bid for All WPC Bid Items

CTBC - Average Contractor's Total Bid

FC - Average Final Cost per Final Pay Estimate

TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

## TYPE OF PROJECT

The projects were divided into four types of projects: *Roadway*, *Structure*, *Landscaping*, and *Other*. Table 14 shows the results of this analysis. "Other" projects include median barriers, scour mitigation,

pedestrian and bicycle overcrossings, embankment repair, sound walls, etc. The percentage of the bid for WPC bid items in both the Engineer’s Estimate and the contractor’s bid for landscaping projects is higher than that for other types of projects. The percentage indicated for total cost for structures contains one project with very high costs. If this project is removed from consideration, the ratio of total WPC cost to final cost for structure type projects becomes 1.14 percent.

**Table 14**  
**WPC Bid Items as a Percentage of Project Costs, by Project**

Type of Project	No. of Projects	EEWPCBI/ EETBC	CBCWPC/ CTBC	TCWPC/ FC
Roadway	66	1.18%	0.92%	0.82%
Structure	11	1.37%	0.92%	2.70%
Landscaping	11	3.03%	1.65%	1.48%
Other	13	1.14%	0.91%	1.04%
All Projects	101	1.23%	0.94%	0.95%

**Legend**

EEWPCBI - Average Engineer's Estimate for All WPC Bid Items  
 EETBC - Average Engineer's Estimate of Total Bid Cost  
 CBCWPC - Average Contractor's Bid for All WPC Bid Items  
 CTBC - Average Contractor's Total Bid  
 FC - Average Final Cost per Final Pay Estimate  
 TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

**NUMBER OF RAINY SEASONS**

Table 15 shows the results of the analysis done based on the number of rainy seasons that occurred during construction. The analysis indicates that the number of rainy seasons is not a factor in determining WPC costs. The number of rainy seasons was determined by evaluating the period between the construction start date and the acceptance date.

**Table 15**  
**Effect of Multiple Rainy Seasons on WPC Bid Costs**

Number of Rainy Seasons	No. of Projects	EEWPCBI/ EETBC	CBCWPC/ CTBC	TCWPC/ FC
0 and 1	27	1.46%	0.85%	1.12%
2	53	1.37%	0.92%	0.87%
3 and 4	21	0.88%	0.60%	1.06%
All Projects	101	1.23%	0.94%	0.95%

**Legend**

EEWPCBI - Average Engineer's Estimate for All WPC Bid Items  
 EETBC - Average Engineer's Estimate of Total Bid Cost  
 CBCWPC - Average Contractor's Bid for All WPC Bid Items  
 CTBC - Average Contractor's Total Bid  
 FC - Average Final Cost per Final Pay Estimate  
 TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

**Trends**

**UNIT PRICES OF WPC BID ITEMS**

Table 16 shows the cost history of temporary water pollution control bid items as contained in the Contract Cost Data Reports for 2001, 2002, 2003, and 2004. As can be seen, unit costs trend downward or stabilize as contractors gain more experience and cost history with these items. It is anticipated this trend will continue.



**Table 16**  
**Cost History Per Contract Cost Data Report**

Code	Item Description	Units	2001		2002		2003		2004	
			No	Average UP	No	Average UP	No	Average UP	No	Average UP
074017	PREPARE WPC PROGRAM	LS			76	\$1,980.15	249	1,878.14	311	1,646.52
074019	PREPARE SWPPP	LS	102	\$5,342.02	138	\$4,534.24	135	4,560.57	128	4,079.15
074020	WATER POLLUTION CONTROL	LS	104	\$29,793.78	213	\$25,025.92	383	14,065.46	437	12,660.09
074023	TEMPORARY EROSION CONTROL	M2	16	\$0.52	9	\$0.36	13	0.35	9	0.26
074025	TEMPORARY SOIL STABILIZER	M2	1	\$0.55	1	\$1.50	9	1.04	1	1.00
074026	TEMPORARY MULCH	M2	1	\$1.50	1	\$0.16				
074027	TEMPORARY EROSION CONTROL BLANKET	M2	1	\$37.50						
074028	TEMPORARY FIBER ROLL	M	18	\$12.72	18	\$8.68	9	8.23	18	9.21
074029	TEMPORARY SILT FENCE	M	40	\$10.20	46	\$8.51	34	7.93	31	9.07
074030	TEMPORARY STRAW BALE	EA	3	\$23.00	9	\$27.39	8	26.88		
074031	TEMPORARY SAND BAG	EA			1	\$10.00				
074031	TEMPORARY GRAVEL BAG BERM	EA					2	14.76	6	35.28
074032	TEMPORARY CONCRETE WASHOUT FACILITY	EA			23	\$1,983.16	43	2,059.00	78	1,888.37
074033	TEMPORARY CONSTRUCTION ENTRANCE	EA			1	\$11,000.00	26	1,909.77	23	2,608.00
074034	TEMPORARY COVER	M2			9	\$2.65	25	2.47	20	2.39
074035	TEMPORARY CHECK DAM	M							2	5.33
074036	TEMPORARY STRAW BALE BARRIER	M							2	38.00
074037	MOVE-IN/MOVE-OUT (TEMP EROSION CONTROL)	EA							5	1,027.59

**ESTIMATING WPC COSTS**

Table 17 shows the history of the Engineer’s Estimate for WPC activities (including supplemental items) versus the final cost for WPC activities (including CCOs). As can be seen from the table, the Engineer’s Estimate has typically exceeded the total cost of WPC activities, and the accuracy of these estimates has not improved significantly.

**Table 17**  
**History of Engineer’s Estimates and Total WPC Costs**

		No of Projects	EEWPCC	TCWPC	EEWPCC/ TCWPC
CY 2000	1st Qtr	3	\$ 93,742	\$163,471	57.35%
	2nd Qtr	7	\$ 66,631	\$175,673	37.93%
	3rd Qtr	5	\$451,885	\$ 92,179	490.22%
	4th Qtr	8	\$332,131	\$ 74,831	443.84%
CY 2001	1st Qtr	7	\$101,516	\$ 95,559	106.23%
	2nd Qtr	8	\$ 75,821	\$ 62,634	121.05%
	3rd Qtr	13	\$133,164	\$ 65,977	201.83%
	4th Qtr	2	\$ 17,330	\$ 13,800	125.58%
CY 2002	1st Qtr	3	\$ 73,150	\$ 13,998	522.57%
	2nd Qtr	9	\$141,840	\$ 72,169	196.54%
	3rd Qtr	4	\$510,346	\$173,246	294.58%
	4th Qtr	3	\$ 23,968	\$ 21,909	109.40%
CY 2003	1st Qtr	2	\$ 79,733	\$ 18,509	430.78%
	2nd Qtr	7	\$ 88,654	\$ 25,808	343.51%
	3rd Qtr	8	\$100,450	\$ 41,407	242.59%
	4th Qtr	3	\$127,333	\$ 38,376	331.81%
CY 2004		5	\$ 91,361	\$ 25,328	360.71%

Legend

EEWPCC - Average Engineer's Estimate of WPC Items plus WPC Supplemental Items

TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs

## Conclusions and Recommendations

### ESTIMATING THE BID COST OF WATER POLLUTION CONTROL

Estimating the cost of temporary water pollution control (WPC) bid items follows the same sequence and is a part of the overall estimating process described in Chapter 20, -Project Development Cost Estimates, of the *Project Development Procedures Manual (PDPM)*. During the project planning phase, an estimate of the overall cost of temporary water pollution control is required. Once the project enters the design phase, the estimate becomes more refined, utilizing the basic engineering estimating system (BEES) as specific bid items are identified and quantified.

### PROJECT PLANNING COST ESTIMATES

During the project planning phase, water pollution control is a single line item of the estimate. “Walking the job” to obtain factual data to back up the estimate is an important part of developing the estimate for water pollution control, as it is an opportunity to identify unique aspects of the project that will affect overall WPC costs. The estimated cost arrived at using this method represents the total temporary WPC cost (including preparation of the SWPPP, water pollution control, separate WPC bid items, and WPC supplemental items). As the estimate moves to the project design estimate, portions of this total amount are broken out as individual line items are developed.

Based on the results of the study, there appear to be three factors that affect the cost of construction-site water pollution control. These are the location of the project; the size (cost) of the project; and the type of the project. Each of these is discussed in more detail below. That discussion is followed by a recommended protocol for revising the estimates, which includes a revised adjustment table (Table 18). The recommended approach for estimating construction-site water pollution control costs is to start from a baseline percent cost, and adjust that baseline percent cost to account for the various factors affecting costs.

## LOCATION OF THE PROJECT

The location of the project, and the RWQCB exercising jurisdiction over the project, appears to have a significant impact on the cost of construction-site water pollution control. This is most likely a reflection of the requirements of the permits that govern projects within each region. Table 8 showed that the contractor's bid for WPC items ranged from 0.51 percent to 0.76 percent in all regions except Region 9, where the average cost was 3.28 percent. The final cost of WPC efforts (including WPC CCOs) ranged from 0.38 percent to 1.18 percent in all regions except Region 9, where it was 2.15 percent. Of the 101 projects included in the study, 13 were in Region 9. When the data was reviewed—taking into account other factors potentially affecting the cost of WPC items—it was found that the percentage of the contractor's bid for WPC Items in Region 9 varied from 3.58 percent to 3.97 percent and final costs ranged from 1.92 to 3.87 percent. As a result of this analysis it is recommended that Caltrans adjust the percentage of costs for work in Region 9.

## SIZE OF PROJECT

The data from the projects studied indicates the size of the project has an inverse relationship to the average percentage cost for WPC bid items except for very large projects (those greater than \$20 million). Small projects (those less than \$1 million) have an average final cost of 2.66 percent. The percentage decreases to a low of 0.80 percent for very large projects. As a result of this analysis, it is recommended that Caltrans adjust the percentage costs for the size of the project.

## TYPE OF PROJECT

The analysis of the data showed that the average contractor's bid for WPC bid items for landscaping projects was 1.65 percent of the total bid, and the final cost was 1.48 percent (as opposed to approximately 0.90 percent of the bid and 1.00 percent of final cost for other types of projects, such as roadway, structure, or other work). This is not surprising, considering that landscaping projects require a fair amount of earthwork, while not containing significant amounts of other high-cost elements (such as concrete or asphalt). As a result of this analysis, it is recommended that Caltrans adjust the percentage costs for landscaping projects.

## REVISED ADJUSTMENT TABLE FOR PROJECT PLANNING COST ESTIMATES

Shown below is a proposed revised adjustment table, Table 18. It is proposed that this table replace the current **Table F-3**, "Percentage of Extra Cost to Project Due to Construction Site BMPs," contained in the *Project Planning and Design Guide*. Because the Study did not focus on the location of projects in relation to 303d-listed water bodies, an adjustment for this factor has not been calculated. An adjustment factor for other unique project-specific water pollution control issues identified while "walking the job" also needs to be included.

**Table 18**  
**Revised Adjustment Table**

Description	Recommended Adjustment (%)	Use (%)
<b>Base Percent</b>	0.75	0.75
<b>Adjustment for Project Size (Cost)</b>		
\$0 to \$1,000,000	2.00	
\$1,000,000 to \$1,500,000	1.25	
\$1,500,000 to \$12,000,000	0.25	
Larger than \$12,000,000	0.00	
<b>Adjustment for Location</b>		
RWQCB Region 9 (San Diego Region)	0.75	
All Other Regions	0.00	
<b>Adjustment for Type of Project</b>		
Landscaping	0.10	
All Other Types of Projects	0.00	
<b>Adjustment for Work near 303d Water Bodies</b>		
Work near 303d water bodies	Project-Specific*	
<b>Adjustment for Project-Specific Issues</b>		
Adjustment for dewatering, turbidity monitoring, etc.	Project-Specific*	
<b>Total Estimated Percent of Total Project Cost for WPC</b>		

\* Engineer preparing estimate should discuss cost/implications of project specific issues with District Storm Water Coordinator and Office of Storm Water Management.

## PROJECT DESIGN COST ESTIMATES

Once the project report developed during the project planning phase has been approved, project design begins. At this time estimates are converted to the Basic Engineering Estimating System (BEES). More detailed estimates are prepared based on bid items identified as the design progresses, culminating in the engineer's cost estimate. The engineer's cost estimate consists of contract items, supplemental work, state-furnished materials, and expenses and contingencies.

The cost established during the project planning phase by multiplying the total estimated percent arrived at using the table above (Table 18) and should become a check for the total cost of the bid items as they are developed. In addition to the separate contract bid items identified during the project design phase, provisions must be made for the cost of preparing the SWPPP (BEES Item 074019) and for the lump-sum water pollution control bid item (BEES Item 074020). Table 19 (below) provides estimated costs for these items based on the total estimated project cost. These costs represent two of the elements that make up the total cost for temporary water pollution control. The other elements are the separate WPC bid items and the supplemental items.

**Table 19**  
**Estimated Cost of SWPPP and WPC**

Final Cost of Project		Estimated Cost not including Separate WPC Bid Items	
		SWPPP*	WPC**
From	To		
\$0	\$1,000,000	\$ 5,000	\$ 5,000
\$1,000,000	\$1,500,000	\$ 5,000	\$ 6,000
\$1,500,000	\$3,250,000	\$ 5,000	\$ 25,000
\$3,250,000	\$6,000,000	\$ 5,000	\$ 35,000
\$6,000,000	\$12,000,000	\$ 5,000	\$ 40,000
\$12,000,000	\$50,000,000	\$ 6,000	\$ 50,000

\* Item cost 074019 Prepare Storm Water Pollution Prevention Plan

\*\* Item Code 074020 Water Pollution Control

Sample problems are contained in Appendix 2, Sample Problems. It should be emphasized that the cost developed during the project planning phase is a rough estimate. As a more detailed analysis is done during the project design phase, a more accurate estimate is developed. This is particularly true on relatively small projects.

### **ACTUAL COST OF WATER POLLUTION CONTROL**

The actual cost of temporary water pollution control as a percent of final cost averaged 0.95 percent statewide for the period studied, as shown in table 3. This tracks fairly well with the percent of the contractor's bid devoted to WPC bid items (0.94 percent), as shown in table 1. WPC CCOs averaged 0.30 percent of the final cost. As mentioned in the report and as shown in table 6, the final cost for WPC work can exceed 3 percent, particularly on relatively small projects.

### **SUPPLEMENTAL ITEMS**

As currently configured the Caltrans special provisions require a minimum of two supplemental items for WPC. These are maintenance costs for selected WPC items of work (shared between the contractor and Caltrans) and sampling and analysis typically done on a force account basis.

### **RECOMMENDATIONS CONCERNING CALTRANS' POLICIES AND PROCEDURES**

- **Item Code Numbers** – During the study it was noted there are inconsistencies in the use of BEES item code numbers for temporary water pollution control bid items. For example, there were approximately 12 different item codes assigned to the activity labeled “Temporary Construction Entrance.” In some cases these numbers (e.g., 018386) do not appear in the Contract Cost Data Book. It is therefore difficult to know whether these costs are being tracked on a statewide basis. The assignment of these numbers occurs largely, though not exclusively, in Districts 4 and 11. It is recommended that Caltrans reemphasize to engineers the need to utilize standard item code numbers whenever possible.
- **Disturbed Soil Areas** – As noted in the report, no central electronic repository of DSA information was found. As a result, no analysis based on these criteria could be performed. It is recommended Caltrans define more precisely the DSA involved in a project and maintain an accessible record of the DSA per project. It is believed this information would provide an additional valuable measure to evaluate and to estimate WPC costs.
- **Contract Change Orders** – One major difficulty in arriving at the total cost of water pollution control, particularly the cost of BMP maintenance and sampling and testing was the lack of standard wording in CCOs. It is recommended Caltrans establish a policy that the CCO written for the shared cost of SWPPP maintenance be identified as “Maintain SWPPP” and further that this CCO only be used for maintenance activities as described in the project's contract documents. Similarly, the CCO written for the force account payment for sampling and analysis be identified as “Sampling and Analysis Implantation”.

### **RECOMMENDATIONS CONCERNING FURTHER STUDIES**

- Caltrans should identify designers and engineers that have a history of accurately estimating WPC costs. This should include both in-house and consultant personnel. These designers should then hold seminars with other districts to share their estimating methods. Based on the results of this study, it appears that the estimates for projects in Districts 3, 4, and 8 are the most accurate.
- Caltrans should undertake an in-depth study of a limited number of projects where WPC costs significantly exceeded the normal range to identify factors that contributed to these excessive costs.

- Caltrans should establish a program to monitor WPC costs as projects are bid. Bid costs could then be compared to the Engineer's Estimated bid costs to identify any significant patterns. Should a pattern be identified, estimated item costs could be adjusted on a timelier basis.
- Caltrans should continue this study, focusing on projects bid after March 2003 (when Phase 2 NPDES requirements were implemented). The study should include both completed projects and projects under construction, with the understanding that final project costs (CCOs) could not be evaluated for projects under construction. The focus on these projects would be the accuracy of the Engineer's Estimate.

# Appendix 1

## Definitions / Abbreviations

**BEES** – Basic Engineering Estimating System

**CBCWPC** – Average Contractor’s bid for all WPC bid items.

**CBSWPPP** – Average Contractor’s bid for “Prepare Storm Water Pollution Prevention Plan” BEES Item Code 074019

**CBSWPPPI** – Average Contractor’s bid for “Water Pollution Control” BEES Item Code 074020

**CBSWPPPO** – Average Contractor’s bid for all separate water pollution control bid items. Does not include Prepare Storm Water Pollution Prevention Plan or Water Pollution Control

**CCOs** – Contract Change Orders

**CTBC** – Average Contractor’s total bid

**DSA** – Disturbed Soil Area

**EETBC** – Average Engineer’s Estimate for total bid cost.

**EETC** – Average Engineer’s Estimate for total bid cost plus all Supplemental Items.

**EEWPCBI** – Average Engineer’s Estimate for all WPC bid items.

**EEWPC** – Average Engineer’s Estimate for WPC bid items plus WPC Supplemental Items.

**Engineer’s Estimate** – Project cost estimate prepared by the designer during the project planning and project design phases of a project.

**Erosion control measures** – Activities undertaken to limit erosion control other than those measures considered temporary water pollution control measures, generally items of work with a BEES Item Code of 203xxx.

**FC** – Average total cost of construction per Final Pay Estimate including all CCOs.

**FCWPC** – Average final cost of WPC bid items per the Final Pay Estimate

**NOC** – Notice of Construction

**NOI** – Notice of Intent

**RWQCB** – Regional Water Quality Control Board

**SWPPP** – Storm Water Pollution Prevention Plan

**TCWPC** – Average total cost of WPC work including final cost of WPC bid items per the Final Pay Estimate plus WPC CCOs.

**Temporary Water Pollution Control** – Activities undertaken during construction to prevent water pollution resulting from construction activities. Generally items of work with BEES Item Codes in the 074xxx series.

**Total CCOs** – Average Final cost of all contract change orders.

**WPC** – Water pollution control

**WPC CCOs** – Average cost of contract change orders related to WPC work.



## **Appendix 2**

# **Sample Problems**



Sample Problem 1

Project Description: Widen existing roadway from 2 lanes to 4 lanes

Project Planning Phase Construction Cost Estimate exclusive of temporary water pollution control measure \$ 16,350,000

Project Location: District 11, RWQCB 9

Characteristics: Not near 303 water body  
 No other significant WPC Issues

Project Planning Phase Estimate

Description	Recommended Adjustment	Use
Base Percent	0.75%	0.75%
Adjustment for Project Size		
\$0 to \$1,000,000	2.00%	
\$1,000,000 to \$1,500,000	1.25%	
\$1,500,000 to \$3,250,000	0.25%	
\$3,250,000 to \$6,000,000	0.25%	
\$6,000,000 to \$12,000,000	0.25%	
\$12,000,000 and larger	0.00%	0.00%
Adjustment for Location		
RWQCB Region 9 (San Diego Region)	0.75%	0.75%
All other Regions	0.00%	
Adjustment for Project Type		
Landscaping	0.10%	
All Other	0.00%	0.00%
Adjustment for Work Near 303d Water Bodies		
Work near 303d water body	Project Specific	0.00%
Adjustment for Project Specific Issues		
Adjustment for dewatering, turbidity monitoring etc.	Project Specific	0.00%
Total Estimated Percent of Project Cost for WPC		1.50%

Remarks:

Project Planning Phase Cost Estimate	\$ 16,350,000
WPC Estimate @ 1.50%	\$ 245,250

Engineer's Estimate Project Design Phase

Prepare SWPPP		\$	6,000			
Water Pollution Control		\$	50,000			
Separate WPC Bid Items	QTY	Unit Cost *				
Temporary Construction Entrance	6	\$ 2,750	\$	16,500		
Temporary Concrete Washout	5	\$ 2,300	\$	11,500		
Temporary Gravel Bag Berm	1100	\$ 20	\$	22,000		
Temporary Silt Fence	5000	\$ 9	\$	45,000		
Engineer's Estimate WPC Items Project Design Phase			\$	151,000		
Supplemental Items						
Sampling and Analysis			\$	10,000		
Maintenance Sharing @ 20% of WPC Bid Items			\$	30,200		
Subtotal			\$	40,200		
Subtotal Engineer's Estimate			\$	191,200	\$	245,250
Additional Supplemental Items						
Addition Water Pollution Control			\$	54,050		
Total Engineer's Estimate			\$	245,250	\$	245,250 OK

\* Unit cost per 2004 Contract Cost Data for District or State average



Sample Problem 2

Project Description: Median Barrier

Project Planning Phase Construction Cost Estimate exclusive of temporary water pollution control measure \$ 5,050,000

Project Location: District 2, RWQCB 5

Characteristics: Not near 303 water body

No other significant WPC Issues

Project Planning Phase Estimate

Description	Recommended Adjustment	Use
Base Percent	0.75%	0.75%
Adjustment for Project Size		
\$0 to \$1,000,000	2.00%	
\$1,000,000 to \$1,500,000	1.25%	
\$1,500,000 to \$3,250,000	0.25%	
\$3,250,000 to \$6,000,000	0.25%	0.25%
\$6,000,000 to \$12,000,000	0.25%	
\$12,000,000 and larger	0.00%	
Adjustment for Location		
RWQCB Region 9 (San Diego Region)	0.75%	
All other Regions	0.00%	0.00%
Adjustment for Project Type		
Landscaping	0.10%	
All Other	0.00%	0.00%
Adjustment for Work Near 303d Water Bodies		
Work near 303d water body	Project Specific	0.00%
Adjustment for Project Specific Issues		
Adjustment for dewatering, turbidity monitoring etc.	Project Specific	0.00%
Total Estimated Percent of Project Cost for WPC		1.00%

Remarks:

Project Planning Phase Cost Estimate	\$ 5,050,000
WPC Estimate @ 1.00%	\$ 50,500

Engineer's Estimate Project Design Phase

Prepare SWPPP	\$ 5,000
Water Pollution Control	\$ 6,000
Separate WPC Bid Items	QTY Unit Cost *
Temporary Construction Entrance	1 \$ 2,750 \$ 2,750
Temporary Concrete Washout	2 \$ 1,500 \$ 3,000
Engineer's Estimate WPC Items Project Design Phase	\$ 16,750

Supplemental Items

Sampling and Analysis	\$ 1,000
Maintenance Sharing @ 20% of WPC Bid Items	\$ 3,350
Subtotal	\$ 4,350

Subtotal Engineer's Estimate \$ 21,100 \$ 50,500

Additional Supplemental Items

Addition Water Pollution Control \$ 29,400

Total Engineer's Estimate \$ 50,500 \$ 50,500 OK

\* Unit cost per 2004 Contract Cost Data for District or State average



Sample Problem 3

Project Description: Widen Existing Highway

Project Planning Phase Construction Cost Estimate exclusive of temporary water pollution control measures: \$ 6,850,000

Project Location: District 4, RWQCB 5

Characteristics: Not near 303 water body  
 No other significant WPC Issues

Project Planning Phase Estimate

Description	Recommended Adjustment	Use
Base Percent	0.75%	0.75%
Adjustment for Project Size		
\$0 to \$1,000,000	2.00%	
\$1,000,000 to \$1,500,000	1.25%	
\$1,500,000 to \$3,250,000	0.25%	
\$3,250,000 to \$6,000,000	0.25%	
\$6,000,000 to \$12,000,000	0.25%	0.25%
\$12,000,000 and larger	0.00%	
Adjustment for Location		
RWQCB Region 9 (San Diego Region)	0.75%	
All other Regions	0.00%	0.00%
Adjustment for Project Type		
Landscaping	0.10%	
All Other	0.00%	0.00%
Adjustment for Work Near 303d Water Bodies		
Work near 303d water body	Project Specific	0.00%
Adjustment for Project Specific Issues		
Adjustment for dewatering, turbidity monitoring etc.	Project Specific	0.00%
Total Estimated Percent of Project Cost for WPC		1.00%

Remarks:

Project Planning Phase Cost Estimate	\$ 6,850,000
WPC Estimate @ 1.00%	\$ 68,500

Engineer's Estimate Project Design Phase

Prepare SWPPP		\$	5,000	
Water Pollution Control		\$	40,000	
Separate WPC Bid Items	QTY	Unit Cost *		
Temporary Construction Entrance	2	\$ 2,500	\$	5,000
Temporary Concrete Washout	2	\$ 1,800	\$	3,600
Temporary Cover	500	\$ 3	\$	1,250
Temporary Silt Fence	250	\$ 7	\$	1,750
Engineer's Estimate WPC Items Project Design Phase			\$	56,600

Supplemental Items

Sampling and Analysis	\$	2,500
Maintenance Sharing @ 20% of WPC Bid Items	\$	11,320
Subtotal	\$	13,820

Subtotal Engineer's Estimate \$ 70,420 \$ 68,500 OK

\* Unit cost per 2004 Contract Cost Data for District or State average



Sample Problem 4

Project Description: Landscaping

Project Planning Phase Construction Cost Estimate exclusive of temporary water pollution control measures \$ 1,250,000

Project Location: District 11, RWQCB 9

Characteristics: Near 303 water body  
 No other significant WPC Issues

Project Planning Phase Estimate

Description	Recommended Adjustment	Use
Base Percent	0.75%	0.75%
Adjustment for Project Size		
\$0 to \$1,000,000	2.00%	
\$1,000,000 to \$1,500,000	1.25%	1.25%
\$1,500,000 to \$3,250,000	0.25%	
\$3,250,000 to \$6,000,000	0.25%	
\$6,000,000 to \$12,000,000	0.25%	
\$12,000,000 and larger	0.00%	
Adjustment for Location		
RWQCB Region 9 (San Diego Region)	0.75%	0.75%
All other Regions	0.00%	
Adjustment for Project Type		
Landscaping	0.10%	0.10%
All Other	0.00%	
Adjustment for Work Near 303d Water Bodies		
Work near 303d water body	Project Specific	2.85%
Adjustment for Project Specific Issues		
Adjustment for dewatering, turbidity monitoring etc.	Project Specific	0.00%
Total Estimated Percent of Project Cost for WPC		5.70%

Remarks: Work near 303d water body estimated to double cost of SWPPP efforts

Project Planning Phase Cost Estimate	\$ 1,250,000
WPC Estimate @ 5.70%	\$ 71,250

Engineer's Estimate Project Design Phase

Prepare SWPPP		\$	10,000
Water Pollution Control		\$	12,000
Separate WPC Bid Items	QTY	Unit Cost *	
Temporary Construction Entrance	3	\$ 2,500	\$ 7,500
Temporary Fiber Roll	2300	\$ 9	\$ 20,700
Temporary Silt Fence	1600	\$ 9	\$ 14,400
Engineer's Estimate WPC Items Project Design Phase		\$	64,600

Supplemental Items

Sampling and Analysis	\$	1,000
Maintenance Sharing @ 20% of WPC Bid Items	\$	12,920
Subtotal	\$	13,920

Subtotal Engineer's Estimate \$ 78,520 \$ 71,250 OK

\* Unit cost per 2004 Contract Cost Data for District or State average



Sample Problem 5

Project Description: Repair Storm Damage

Project Planning Phase Construction Cost Estimate exclusive of temporary water pollution control measures: \$ 5,350,000

Project Location: District 4, RWQCB 2

Characteristics: Not near 303 water body  
 No other significant WPC Issues

Project Planning Phase Estimate

Description	Recommended Adjustment	Use
Base Percent	0.75%	0.75%
Adjustment for Project Size		
\$0 to \$1,000,000	2.00%	
\$1,000,000 to \$1,500,000	1.25%	
\$1,500,000 to \$3,250,000	0.25%	
\$3,250,000 to \$6,000,000	0.25%	0.25%
\$6,000,000 to \$12,000,000	0.25%	
\$12,000,000 and larger	0.00%	
Adjustment for Location		
RWQCB Region 9 (San Diego Region)	0.75%	
All other Regions	0.00%	0.00%
Adjustment for Project Type		
Landscaping	0.10%	
All Other	0.00%	0.00%
Adjustment for Work Near 303d Water Bodies		
Work near 303d water body	Project Specific	0.00%
Adjustment for Project Specific Issues		
Adjustment for dewatering, turbidity monitoring etc.	Project Specific	0.00%
Total Estimated Percent of Project Cost for WPC		1.00%

Remarks:

Project Planning Phase Cost Estimate	\$ 5,350,000
WPC Estimate @ 1.00%	\$ 53,500

Engineer's Estimate Project Design Phase

Prepare SWPPP		\$ 5,000
Water Pollution Control		\$ 35,000
Separate WPC Bid Items	QTY	Unit Cost *
Temporary Concrete Washout	1 \$	1,750 \$ 1,750
Temporary Cover	1 \$	5,000 \$ 5,000
Temporary Silt Fence	610 \$	9 \$ 5,490
Engineer's Estimate WPC Items Project Design Phase		\$ 52,240

Supplemental Items

Sampling and Analysis	\$ 1,000
Maintenance Sharing @ 20% of WPC Bid Items	\$ 10,448
Subtotal	\$ 11,448

Subtotal Engineer's Estimate	\$ 63,688	\$ 53,500 OK
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\* Unit cost per 2004 Contract Cost Data for District or State average



# **Appendix 3**

## **Detailed Tables and Charts**



Detailed Cost Ratios By District and Region									
District	Region	No of Projects	EETBC/CTBC	EEWPCBI/EETBC	CBCWPC/CTBC	EEWPCC/EETC	TCWPC/FC	EEWPCC/TCWPC	
1	1	5	95.92%	0.69%	0.64%	0.67%	0.79%	65.71%	
1	5	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
1	Average	5	95.92%	0.69%	0.64%	0.67%	0.79%	65.71%	
2	1	2	136.56%	1.16%	0.67%	1.32%	0.18%	691.35%	
2	5	4	106.47%	0.67%	0.76%	0.97%	0.66%	149.37%	
2	6	1	149.58%	3.09%	1.02%	4.02%	0.94%	695.62%	
2	Average	7	113.99%	0.98%	0.77%	1.32%	0.58%	236.21%	
3	5	6	113.02%	0.41%	0.39%	0.46%	0.44%	114.21%	
3	6	1	108.32%	4.48%	1.95%	5.77%	2.32%	268.29%	
3	Average	7	112.88%	0.53%	0.44%	0.62%	0.50%	136.32%	
4	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	2	14	119.78%	0.67%	0.76%	0.72%	0.84%	90.77%	
4	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	5	1	144.90%	1.59%	2.96%	1.98%	2.42%	121.70%	
4	Average	15	120.56%	0.71%	0.83%	0.76%	0.88%	93.05%	
5	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	3	5	109.71%	0.93%	0.44%	1.25%	0.48%	275.43%	
5	5	2	104.08%	0.85%	0.95%	0.84%	8.16%	9.37%	
5	Average	7	108.36%	0.91%	0.56%	1.16%	2.41%	48.77%	
6	5	14	110.51%	0.87%	0.36%	1.21%	0.54%	228.35%	
6	6	2	99.25%	1.01%	0.27%	0.97%	0.54%	164.55%	
6	Average	16	108.96%	0.88%	0.35%	1.18%	0.54%	219.51%	
7	3	1	116.63%	0.27%	0.84%	4.04%	1.24%	355.21%	
7	4	15	126.03%	1.79%	0.64%	4.20%	0.65%	800.96%	
7	5	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	6	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Average	16	123.83%	1.45%	0.69%	4.17%	0.80%	629.11%	
8	6	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	7	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	8	4	97.28%	0.31%	0.30%	0.33%	0.26%	104.37%	
8	9	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Average	4	97.28%	0.31%	0.30%	0.33%	0.26%	104.37%	
9	6	2	99.94%	0.25%	0.51%	0.24%	1.15%	19.91%	
9	Average	2	99.94%	0.25%	0.51%	0.24%	1.15%	19.91%	
10	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	5	3	112.53%	0.59%	1.24%	0.57%	1.23%	46.82%	
10	6	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Average	3	112.53%	0.59%	1.24%	0.57%	1.23%	46.82%	
11	7	2	115.23%	1.77%	0.54%	2.31%	0.38%	678.64%	
11	9	9	132.66%	3.58%	3.87%	4.60%	2.25%	259.00%	
11	Average	11	127.60%	3.11%	2.91%	4.02%	1.72%	284.85%	
12	8	4	119.95%	1.38%	0.85%	1.48%	0.81%	213.03%	
12	9	4	116.99%	3.97%	1.95%	4.17%	1.92%	251.52%	
12	Average	8	119.02%	2.18%	1.20%	2.31%	1.16%	232.92%	
Statewide	Average	101	115.39%	1.23%	0.94%	1.93%	0.95%	137.76%	

Legend

- EETBC - Average Engineer's Estimate of Total Bid Cost
- CTBC -Average Contractor's Total Bid
- EEWPCBI - Average Engineer's Estimate for All WPC Bid Items
- CBCWPC -Average Contractor's Bid for All WPC Bid Items
- EEWPCC -Average Engineer's Estimate of WPC Items plus WPC Supplemental Items
- EETC -Average Engineer's Estimate of Total Cost including Supplemental Items
- TCWPC -Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs
- FC -Average Final Cost per Final Pay Estimate



Detailed Cost Ratios By Region and District								
Region	District	No of Projects	EETBC/CTBC	EEWPCBI/EETBC	CBCWPC/CTBC	EEWPCC/EETC	TCWPC/FC	EEWPCC/TCWPC
1	1	5	95.92%	0.69%	0.64%	0.67%	0.79%	65.71%
1	2	2	136.56%	1.16%	0.67%	1.32%	0.18%	691.35%
1	4	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1	Average	7	107.53%	0.82%	0.65%	0.85%	0.62%	244.46%
2	4	14	119.78%	0.67%	0.76%	0.72%	0.84%	90.77%
2	5	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	10	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	Average	14	119.78%	0.67%	0.76%	0.72%	0.84%	90.77%
3	4	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	5	5	109.71%	0.93%	0.44%	1.25%	0.48%	275.43%
3	7	1	116.63%	0.27%	0.84%	4.04%	1.24%	355.21%
3	Average	6	110.87%	0.82%	0.51%	1.72%	0.60%	288.72%
4	7	15	126.03%	1.79%	0.64%	4.20%	0.65%	800.96%
4	Average	15	126.03%	1.79%	0.64%	4.20%	0.65%	800.96%
5	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5	2	4	106.47%	0.67%	0.76%	0.97%	0.66%	149.37%
5	3	6	113.02%	0.41%	0.39%	0.46%	0.44%	114.21%
5	4	1	144.90%	1.59%	2.96%	1.98%	2.42%	121.70%
5	5	2	104.08%	0.85%	0.95%	0.84%	8.16%	9.37%
5	6	14	110.51%	0.87%	0.36%	1.21%	0.54%	228.35%
5	7	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
5	10	3	112.53%	0.59%	1.24%	0.57%	1.23%	46.82%
5	Average	30	111.39%	0.74%	0.63%	0.96%	1.18%	158.69%
6	2	1	149.58%	3.09%	1.02%	4.02%	0.94%	695.62%
6	3	1	108.32%	4.48%	1.95%	5.77%	2.32%	268.29%
6	6	2	99.25%	1.01%	0.27%	0.97%	0.54%	164.55%
6	7	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	8	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	9	2	99.94%	0.25%	0.51%	0.24%	1.15%	19.91%
6	10	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	Average	6	109.38%	1.68%	0.75%	2.04%	1.11%	222.14%
7	8	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7	11	2	115.23%	1.77%	0.54%	2.31%	0.38%	678.64%
7	Average	2	115.23%	1.77%	0.54%	2.31%	0.38%	678.64%
8	8	4	97.28%	0.31%	0.30%	0.33%	0.26%	104.37%
8	12	4	119.95%	1.38%	0.85%	1.48%	0.81%	213.03%
8	Average	8	108.62%	0.84%	0.58%	0.90%	0.54%	158.70%
9	8	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
9	11	9	132.66%	3.58%	3.87%	4.60%	2.25%	259.00%
9	12	4	116.99%	3.97%	1.95%	4.17%	1.92%	251.52%
9	Average	13	127.84%	3.70%	3.28%	4.47%	2.15%	256.70%
Statewide	Average	101	115.39%	1.23%	0.94%	1.93%	0.95%	137.76%

Legend

- EETBC - Average Engineer's Estimate of Total Bid Cost
- CTBC - Average Contractor's Total Bid
- EEWPCBI - Average Engineer's Estimate for All WPC Bid Items
- CBCWPC - Average Contractor's Bid for All WPC Bid Items
- EEWPCC - Average Engineer's Estimate of WPC Items plus WPC Supplemental Items
- EETC - Average Engineer's Estimate of Total Cost including Supplemental Items
- TCWPC - Average Total Cost of WPC Bid Items per Final Pay Estimate plus WPC CCOs
- FC - Average Final Cost per Final Pay Estimate



# **Appendix 4**

## **Project Information**

# Caltrans Construction Site WPC Study

EA Number: 01-194134

Project Info				Project Costs Summary			
District:	1	Location:	01-Men,Lak-20-69.2/71.0, 0.0/1.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Widening	<b>Total Bid:</b>	\$3,652,000	<b>Total Bid Estimate:</b>	\$3,753,168
Construction Start Date:	9/26/2000	End Date:	1/23/2003	<b>WPC Bid Items:</b>	\$30,000	<b>WPC Bid Items:</b>	\$55,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$87,792	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$1,256,294	<b>Other Supplemental Work:</b>	\$225,200
Disturbed Area:	7.7 Hectares			<b>Final Pay:</b>	\$5,148,217	<b>Total Estimated Cost:</b>	\$3,978,368
Form of SWPPP Billing:	Plan-Lump Sum, Implementation and maintenance-Lump Sum, Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$25,000.00	\$25,000	\$50,000.00	\$50,000	1	\$25,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$5,000.00	\$5,000	1	\$5,000
			\$30,000		\$55,000		\$30,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$225,200.00

# Caltrans Construction Site WPC Study

EA Number: 01-298304

Project Info				Project Costs Summary			
District:	1	Location:	01-Men-101-R38.9/49.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Shoulder Widening, Ac Surfacing	<b>Total Bid:</b>	\$8,364,354	<b>Total Bid Estimate:</b>	\$8,841,000
Construction Start Date:	9/17/2002	End Date:	3/18/2004	<b>WPC Bid Items:</b>	\$35,000	<b>WPC Bid Items:</b>	\$20,000
Rainy Season:	10/1 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$1,590,570	<b>Other Supplemental Work:</b>	\$150,800
Disturbed Area:	5.8 Hectares			<b>Final Pay:</b>	\$9,315,667	<b>Total Estimated Cost:</b>	\$8,991,800
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$25,000.00	\$25,000	\$16,000.00	\$16,000	1	\$25,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$10,000.00	\$10,000	\$4,000.00	\$4,000	1	\$10,000
			\$35,000		\$20,000		\$35,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$150,800.00

**Caltrans Construction Site WPC Study**

EA Number: 01-301704

Project Info				Project Costs Summary			
District:	1	Location:	01-Men-101-9.1/14.8	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	4-lane Expressway	<b>Total Bid:</b>	\$15,886,475	<b>Total Bid Estimate:</b>	\$13,776,539
Construction Start Date:	5/22/2001	End Date:	7/23/2004	<b>WPC Bid Items:</b>	\$105,000	<b>WPC Bid Items:</b>	\$99,000
Rainy Season:	10/1 to 05/01	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$26,010	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$6,083,193	<b>Other Supplemental Work:</b>	\$809,800
Disturbed Area:	13.0 Hectares			<b>Final Pay:</b>	\$21,818,746	<b>Total Estimated Cost:</b>	\$14,586,339
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$100,000.00	\$100,000	\$72,000.00	\$72,000	1	\$100,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$27,000.00	\$27,000	1	\$5,000
			\$105,000		\$99,000		\$105,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$809,800.00

**Caltrans Construction Site WPC Study**

EA Number: 01-317604

Project Info				Project Costs Summary			
District:	1	Location:	01-DN-101-R44.3/R45.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Modify Interchange	<b>Total Bid:</b>	\$1,678,063	<b>Total Bid Estimate:</b>	\$1,835,000
Construction Start Date:	8/6/2002	End Date:	1/26/2004	<b>WPC Bid Items:</b>	\$11,800	<b>WPC Bid Items:</b>	\$16,000
Rainy Season:	10/1 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$2,000
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$307,247	<b>Other Supplemental Work:</b>	\$57,100
Disturbed Area:	0.7 Hectares			<b>Final Pay:</b>	\$2,022,851	<b>Total Estimated Cost:</b>	\$1,894,100
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74029 TEMPORARY SILT FENCE - M	400	\$2.00	\$800	\$10.00	\$4,000	607	\$1,214
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$7,000.00	\$7,000	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$5,000.00	\$5,000	1	\$1,000
			\$11,800		\$16,000		\$12,214

Supplemental Bid Items		
Item Description	Cost	
WATER POLLUTION CONTROL MAINTENANCE SHARING		\$2,000
		\$2,000

Other Supplemental Work: \$57,100.00

# Caltrans Construction Site WPC Study

EA Number: 01-448404

Project Info				Project Costs Summary			
District:	1	Location:	01-Hum-101-R65.4/R67.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Emergency Slide Repair	<b>Total Bid:</b>	\$798,750	<b>Total Bid Estimate:</b>	\$933,000
Construction Start Date:	9/3/2003	End Date:	2/19/2004	<b>WPC Bid Items:</b>	\$14,000	<b>WPC Bid Items:</b>	\$11,000
Rainy Season:	10/1 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$700
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$88,948	<b>Other Supplemental Work:</b>	\$55,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$912,765	<b>Total Estimated Cost:</b>	\$988,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation and maintenance-Lump Sum, Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$9,000.00	\$9,000	\$7,000.00	\$7,000	1	\$9,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$4,000.00	\$4,000	1	\$5,000
			\$14,000		\$11,000		\$14,000

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL							\$700
							\$700

Other Supplemental Work: \$55,000.00

# Caltrans Construction Site WPC Study

EA Number: 02-1C4904

Project Info				Project Costs Summary			
District:	2	Location:	02-TRI-299- 47.7/49.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	SLIDE REPAIR	<b>Total Bid:</b>	\$964,720	<b>Total Bid Estimate:</b>	\$1,204,000
Construction Start Date:	6/10/2004	End Date:	11/12/2004	<b>WPC Bid Items:</b>	\$5,000	<b>WPC Bid Items:</b>	\$30,593
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$15,000
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$70,189	<b>Other Supplemental Work:</b>	\$170,000
Disturbed Area:	0.7 Hectares			<b>Final Pay:</b>	\$1,106,286	<b>Total Estimated Cost:</b>	\$1,389,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 Water Pollution Control (Implementation) - LS	1	\$2,500.00	\$2,500	\$25,000.00	\$25,000	1	\$2,500
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$2,500.00	\$2,500	\$5,593.00	\$5,593	1	\$2,500
			\$5,000		\$30,593		\$5,000

Supplemental Bid Items							
Item Description	Cost						
STORM WATER SAMPLING AND ANALYSIS							\$5,000
ADDITIONAL WATER POLLUTION CONTROL							\$5,000
WATER POLLUTION CONTROL MAINTENANCE SHARING							\$5,000
							\$15,000
Other Supplemental Work:	\$170,000.00						

**Caltrans Construction Site WPC Study**

EA Number: 02-2618u4

Project Info				Project Costs Summary			
District:	2	Location:	02-Teh-5-R43.6/R44.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Interchange Construction	<b>Total Bid:</b>	\$5,935,271	<b>Total Bid Estimate:</b>	\$6,636,748
Construction Start Date:	7/10/2001	End Date:	9/26/2003	<b>WPC Bid Items:</b>	\$47,300	<b>WPC Bid Items:</b>	\$23,500
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$839,501	<b>Other Supplemental Work:</b>	\$215,800
Disturbed Area:	5.5 Hectares			<b>Final Pay:</b>	\$7,256,711	<b>Total Estimated Cost:</b>	\$6,852,548
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

**Project WPC Costs**

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74030 TEMPORARY STRAW BALE - M	100	\$50.00	\$5,000	\$20.00	\$2,000	113	\$5,650
74029 TEMPORARY SILT FENCE - M	100	\$8.00	\$800	\$20.00	\$2,000	821	\$6,568
74028 TEMPORARY FIBER ROLL - M	100	\$15.00	\$1,500	\$20.00	\$2,000	1022	\$15,330
74020 WATER POLLUTION CONTROL - LS	1	\$35,000.00	\$35,000	\$15,000.00	\$15,000	1	\$35,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$2,500.00	\$2,500	1	\$5,000
			\$47,300		\$23,500		\$67,548

**Supplemental Bid Items**

Item Description	Cost
Other Supplemental Work:	\$215,800.00

# Caltrans Construction Site WPC Study

EA Number: 02-295934

Project Info				Project Costs Summary			
District:	2	Location:	02-TEH-99-17.4/18.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	BRIDGE REPLACEMENT (SCOUR)	<b>Total Bid:</b>	\$2,837,697	<b>Total Bid Estimate:</b>	\$3,065,000
Construction Start Date:	2/18/2003	End Date:	9/8/2004	<b>WPC Bid Items:</b>	\$44,000	<b>WPC Bid Items:</b>	\$49,465
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$50,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$81,671	<b>Other Supplemental Work:</b>	\$105,000
Disturbed Area:	2.7 Hectares			<b>Final Pay:</b>	\$2,877,400	<b>Total Estimated Cost:</b>	\$3,220,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	6						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
030292 Stabilize Entrance/Exit (Type 1) - M3	75	\$40.00	\$3,000	\$35.00	\$2,625	19	\$760
074032 Temporary Concrete Washout Facility - EA	2	\$2,000.00	\$4,000	\$400.00	\$800	2	\$4,000
074030 Temporary Straw Bale - EA	60	\$12.00	\$720	\$40.00	\$2,400	0	\$0
074029 Temporary Silt Fence - M	2330	\$6.00	\$13,980	\$8.00	\$18,640	659	\$3,958
074020 Water Pollution Control (Implementation) - LS	1	\$16,300.00	\$16,300	\$20,000.00	\$20,000	1	\$16,300
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$6,000.00	\$6,000	\$5,000.00	\$5,000	1	\$6,000
			\$44,000		\$49,465		\$31,018

Supplemental Bid Items		
Item Description	Cost	
STORM WATER SAMPLING AND ANALYSIS		\$25,000
ADDITIONAL WATER POLLUTION CONTROL		\$10,000
WATER POLLUTION CONTROL MAINTENANCE SHARING		\$15,000
		\$50,000
Other Supplemental Work:	\$105,000.00	

# Caltrans Construction Site WPC Study

EA Number: 02-310204

Project Info				Project Costs Summary			
District:	2	Location:	02-SHA-299- 95.1/99.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	ROADWAY REHABILITATION	<b>Total Bid:</b>	\$9,989,041	<b>Total Bid Estimate:</b>	\$10,410,000
Construction Start Date:	7/10/2003	End Date:	11/22/2004	<b>WPC Bid Items:</b>	\$54,750	<b>WPC Bid Items:</b>	\$57,950
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$30,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$671,287	<b>Other Supplemental Work:</b>	\$665,700
Disturbed Area:	24.8 Hectares			<b>Final Pay:</b>	\$10,688,002	<b>Total Estimated Cost:</b>	\$11,105,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74030 TEMPORARY STRAW BALE - EA	150	\$25.00	\$3,750	\$29.00	\$4,350	0	\$0
74029 TEMPORARY SILT FENCE - M	700	\$25.00	\$17,500	\$12.00	\$8,400	461.72	\$11,543
74028 TEMPORARY FIBER ROLL - M	800	\$10.00	\$8,000	\$19.00	\$15,200	171.6	\$1,716
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$20,000.00	\$20,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,500.00	\$5,500	\$10,000.00	\$10,000	1	\$5,500
			\$54,750		\$57,950		\$38,759

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$10,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$10,000
STORM WATER SAMPLING AND ANALYSIS	\$10,000
	\$30,000

Other Supplemental Work: \$665,700.00

# Caltrans Construction Site WPC Study

EA Number: 02-325504

Project Info				Project Costs Summary			
District:	2	Location:	02-Tri-299-76.6/78.2	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Realignment	<b>Total Bid:</b>	\$3,535,103	<b>Total Bid Estimate:</b>	\$4,941,000
Construction Start Date:	5/21/2002	End Date:	1/9/2004	<b>WPC Bid Items:</b>	\$25,000	<b>WPC Bid Items:</b>	\$40,826
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	1 - North Coast			<b>Other CCOs:</b>	\$1,899,627	<b>Other Supplemental Work:</b>	\$222,900
Disturbed Area:	5.0 Hectares			<b>Final Pay:</b>	\$5,812,396	<b>Total Estimated Cost:</b>	\$5,163,900
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$22,050.00	\$22,050	1	\$2,500
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$18,775.60	\$18,776	1	\$5,000
			\$25,000		\$40,826		\$7,500

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$222,900.00

# Caltrans Construction Site WPC Study

EA Number: 02-361304

Project Info				Project Costs Summary			
District:	2	Location:	02-LAS-139- 19.0/20.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	CURVE IMPROVEMENT	<b>Total Bid:</b>	\$2,147,412	<b>Total Bid Estimate:</b>	\$3,212,000
Construction Start Date:	5/28/2004	End Date:	10/20/2004	<b>WPC Bid Items:</b>	\$22,000	<b>WPC Bid Items:</b>	\$99,123
Rainy Season:	8/1 TO 5/1	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$40,000
Water Quality Board:	6 - Lahontan			<b>Other CCOs:</b>	\$35,309	<b>Other Supplemental Work:</b>	\$206,500
Disturbed Area:	5.2 Hectares			<b>Final Pay:</b>	\$2,125,724	<b>Total Estimated Cost:</b>	\$3,458,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074032 Temporary Concrete Washout Facility - EA	1	\$2,000.00	\$2,000	\$4,000.00	\$4,000	0	\$0
074020 Water Pollution Control (Implementation) - LS	1	\$12,000.00	\$12,000	\$90,000.00	\$90,000	1	\$12,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$8,000.00	\$8,000	\$5,123.00	\$5,123	1	\$8,000
			<u>\$22,000</u>		<u>\$99,123</u>		<u>\$20,000</u>

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL						\$10,000	
WATER POLLUTION CONTROL MAINTENANCE SHARING						\$30,000	
						<u>\$40,000</u>	
Other Supplemental Work:	\$206,500.00						

# Caltrans Construction Site WPC Study

EA Number: 02-374704

Project Info				Project Costs Summary			
District:	2	Location:	02-Sha-5-R70.3/R73.5, R84.0/R90.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Median Barrier	<b>Total Bid:</b>	\$4,918,040	<b>Total Bid Estimate:</b>	\$5,100,000
Construction Start Date:	4/22/2003	End Date:	2/2/2004	<b>WPC Bid Items:</b>	\$34,000	<b>WPC Bid Items:</b>	\$37,000
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$8,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$73,037	<b>Other Supplemental Work:</b>	\$192,500
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$5,260,000	<b>Total Estimated Cost:</b>	\$5,300,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total			
074020 Water Pollution Control (Implementation) - LS	1	\$26,000.00	\$26,000	\$30,000.00	\$30,000		1	\$26,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$8,000.00	\$8,000	\$7,000.00	\$7,000		1	\$8,000
			\$34,000		\$37,000			\$34,000

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$3,000
ADDITIONAL WATER POLLUTION CONTROL	\$3,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$2,000
	\$8,000
Other Supplemental Work:	\$192,500.00

**Caltrans Construction Site WPC Study**

EA Number: 03-2A0904

Project Info				Project Costs Summary			
District:	3	Location:	03-PLA-267-6.7/7.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	REHABILITATE DRAINAGE FACILITIES	<b>Total Bid:</b>	\$1,565,702	<b>Total Bid Estimate:</b>	\$1,696,000
Construction Start Date:	12/30/2003	End Date:	11/30/2004	<b>WPC Bid Items:</b>	\$30,500	<b>WPC Bid Items:</b>	\$76,000
Rainy Season:	8/1 TO 5/1	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$10,127	<b>WPC Supplemental Work:</b>	\$33,000
Water Quality Board:	6 - Lahontan			<b>Other CCOs:</b>	\$130,598	<b>Other Supplemental Work:</b>	\$160,000
Disturbed Area:	0.5 Hectares			<b>Final Pay:</b>	\$1,747,948	<b>Total Estimated Cost:</b>	\$1,889,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074029 Temporary Silt Fence - M	1050	\$10.00	\$10,500	\$20.00	\$21,000	1050	\$10,500
074020 Water Pollution Control (Implementation) - LS	1	\$5,000.00	\$5,000	\$50,000.00	\$50,000	1	\$5,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$15,000.00	\$15,000	\$5,000.00	\$5,000	1	\$15,000
			\$30,500		\$76,000		\$30,500

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL				\$25,000			
WATER POLLUTION CONTROL MAINTENANCE SHARING				\$8,000			
				\$33,000			
Other Supplemental Work:	\$160,000.00						

**Caltrans Construction Site WPC Study**

EA Number: 03-2a8604

Project Info				Project Costs Summary			
District:	3	Location:	03-Sac-51-13.0/14.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Widening	<b>Total Bid:</b>	\$4,405,515	<b>Total Bid Estimate:</b>	\$6,243,088
Construction Start Date:	8/7/2001	End Date:	10/9/2003	<b>WPC Bid Items:</b>	\$36,500	<b>WPC Bid Items:</b>	\$30,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$3,661	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$382,480	<b>Other Supplemental Work:</b>	\$334,200
Disturbed Area:	1.1 Hectares			<b>Final Pay:</b>	\$4,949,923	<b>Total Estimated Cost:</b>	\$6,577,288
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$35,000.00	\$35,000	\$25,000.00	\$25,000	1	\$35,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,500.00	\$1,500	\$5,000.00	\$5,000	1	\$1,500
			\$36,500		\$30,000		\$36,500

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$334,200.00

**Caltrans Construction Site WPC Study**

EA Number: 03-366404

Project Info				Project Costs Summary			
District:	3	Location:	03-ED-50-34.0/46.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Rehabilitation	<b>Total Bid:</b>	\$15,667,513	<b>Total Bid Estimate:</b>	\$15,342,763
Construction Start Date:	5/15/2001	End Date:	12/24/2002	<b>WPC Bid Items:</b>	\$65,150	<b>WPC Bid Items:</b>	\$49,001
Rainy Season:	10/15 TO 4/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$1,514,693	<b>Other Supplemental Work:</b>	\$427,200
Disturbed Area:	5.7 Hectares			<b>Final Pay:</b>	\$16,748,244	<b>Total Estimated Cost:</b>	\$15,769,963
Form of SWPPP Billing:	Plan-Lump Sum, Implementation and maintenance-Lump Sum, Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

**Project WPC Costs**

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
020740 Temporary Sandbag Headwall - EA	1	\$8,000.00	\$8,000	\$1,600.00	\$1,600	1	\$8,000
074030 Temporary Straw Bale - EA	140	\$30.00	\$4,200	\$40.00	\$5,600	19	\$570
074029 Temporary Silt Fence - M	3450	\$11.00	\$37,950	\$4.00	\$13,800	1942.64	\$21,369
074020 Water Pollution Control (Implementation) - LS	1	\$10,000.00	\$10,000	\$20,000.00	\$20,000	1	\$10,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$8,000.70	\$8,001	1	\$5,000
			\$65,150		\$49,001		\$44,939

**Supplemental Bid Items**

Item Description	Cost
Other Supplemental Work:	\$427,200.00

# Caltrans Construction Site WPC Study

EA Number: 03-368504

Project Info				Project Costs Summary			
District:	3	Location:	03-Yol-84-29.1/R34.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway Widening	<b>Total Bid:</b>	\$8,459,259	<b>Total Bid Estimate:</b>	\$7,608,000
Construction Start Date:	9/4/2002	End Date:	8/10/2004	<b>WPC Bid Items:</b>	\$40,000	<b>WPC Bid Items:</b>	\$33,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$960,599	<b>Other Supplemental Work:</b>	\$403,700
Disturbed Area:	2.6 Hectares			<b>Final Pay:</b>	\$8,596,459	<b>Total Estimated Cost:</b>	\$8,011,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$35,000.00	\$35,000	\$18,000.00	\$18,000	1	\$35,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$15,000.00	\$15,000	1	\$5,000
			\$40,000		\$33,000		\$40,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$403,700.00

# Caltrans Construction Site WPC Study

EA Number: 03-376104

Project Info				Project Costs Summary			
District:	3	Location:	03-YUB-70-.4/7.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	CONSTRUCT 4-LANE EXPRESSWAY	<b>Total Bid:</b>	\$14,430,908	<b>Total Bid Estimate:</b>	\$20,840,000
Construction Start Date:	9/5/2002	End Date:	12/14/2004	<b>WPC Bid Items:</b>	\$26,000	<b>WPC Bid Items:</b>	\$54,984
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$13,058	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$777,550	<b>Other Supplemental Work:</b>	\$760,800
Disturbed Area:	5.0 Hectares			<b>Final Pay:</b>	\$15,283,452	<b>Total Estimated Cost:</b>	\$21,600,800
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$25,000.00	\$25,000	\$44,984.00	\$44,984	1	\$25,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$10,000.00	\$10,000	1	\$1,000
			\$26,000		\$54,984		\$26,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$760,800.00

**Caltrans Construction Site WPC Study**

EA Number: 03-382904

Project Info				Project Costs Summary			
District:	3	Location:	03-Yol-80-14.4/R16.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Reconstruct Roadway	<b>Total Bid:</b>	\$4,834,617	<b>Total Bid Estimate:</b>	\$4,848,057
Construction Start Date:	11/28/2000	End Date:	1/16/2004	<b>WPC Bid Items:</b>	\$14,000	<b>WPC Bid Items:</b>	\$40,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	4	<b>WPC CCOs:</b>	\$1,500	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$1,516,197	<b>Other Supplemental Work:</b>	\$178,500
Disturbed Area:	1.8 Hectares			<b>Final Pay:</b>	\$6,408,209	<b>Total Estimated Cost:</b>	\$5,026,557
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$12,000.00	\$12,000	\$20,000.00	\$20,000	1	\$12,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,000.00	\$2,000	\$20,000.00	\$20,000	1	\$2,000
			\$14,000		\$40,000		\$14,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$178,500.00

**Caltrans Construction Site WPC Study**

EA Number: 03-4a0104

Project Info				Project Costs Summary			
District:	3	Location:	03-Gle-162-123.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Bridge Scour Mitigation	<b>Total Bid:</b>	\$3,273,151	<b>Total Bid Estimate:</b>	\$2,840,000
Construction Start Date:	4/6/2004	End Date:	8/30/2004	<b>WPC Bid Items:</b>	\$18,000	<b>WPC Bid Items:</b>	\$30,000
Rainy Season:	10/15 TO 4/15	# of Rainy Seasons:	0	<b>WPC CCOs:</b>	\$44,869	<b>WPC Supplemental Work:</b>	\$40,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$144,807	<b>Other Supplemental Work:</b>	\$182,400
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$3,123,415	<b>Total Estimated Cost:</b>	\$3,062,400
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074020 Water Pollution Control (Implementation) - LS	1	\$8,000.00	\$8,000	\$20,000.00	\$20,000	1	\$8,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$10,000.00	\$10,000	\$10,000.00	\$10,000	1	\$10,000
			\$18,000		\$30,000		\$18,000

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$30,000
ADDITIONAL WATER POLLUTION CONTROL	\$5,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$5,000
	\$40,000
Other Supplemental Work:	\$182,400.00

# Caltrans Construction Site WPC Study

EA Number: 04-015114

Project Info				Project Costs Summary			
District:	4	Location:	04-SM-84-R41.9/R47.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Freeway Widening	<b>Total Bid:</b>	\$21,002,498	<b>Total Bid Estimate:</b>	\$21,762,000
Construction Start Date:	4/3/2002	End Date:	1/20/2004	<b>WPC Bid Items:</b>	\$245,450	<b>WPC Bid Items:</b>	\$206,400
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$30,000
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$2,435,379	<b>Other Supplemental Work:</b>	\$1,946,000
Disturbed Area:	7.8 Hectares			<b>Final Pay:</b>	\$24,269,404	<b>Total Estimated Cost:</b>	\$23,738,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	8						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
23075 Temporary Entrance/Exit - EA	3	\$2,500.00	\$7,500	\$7,560.00	\$22,680	4	\$10,000
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	7	\$2,500.00	\$17,500	\$2,000.00	\$14,000	8	\$20,000
074034 Temporary Cover - M2	3000	\$5.00	\$15,000	\$4.50	\$13,500	1368.4	\$6,842
23072 TEMPORARY DRAINAGE INLET PROTECTION - EA	35	\$400.00	\$14,000	\$180.00	\$6,300	35	\$14,000
74029 TEMPORARY SILT FENCE - M	10200	\$8.00	\$81,600	\$8.10	\$82,620	12113.2	\$96,906
74023 TEMPORARY EROSION CONTROL - M2	41000	\$0.85	\$34,850	\$0.30	\$12,300	47000	\$39,950
74020 WATER POLLUTION CONTROL - LS	1	\$40,000.00	\$40,000	\$45,000.00	\$45,000	1	\$40,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$35,000.00	\$35,000	\$10,000.00	\$10,000	1	\$35,000
			\$245,450		\$206,400		\$262,698

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$30,000
	\$30,000
Other Supplemental Work:	\$1,946,000.00

# Caltrans Construction Site WPC Study

EA Number: 04-045044

Project Info				Project Costs Summary			
District:	4	Location:	04-Ala-92-5.9 / 6.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Construct Pedestrian And Bicycle Overcrossing	<b>Total Bid:</b>	\$2,611,276	<b>Total Bid Estimate:</b>	\$2,292,000
Construction Start Date:	10/31/2001	End Date:	10/15/2002	<b>WPC Bid Items:</b>	\$12,100	<b>WPC Bid Items:</b>	\$25,159
Rainy Season:	10/1 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$133,762	<b>Other Supplemental Work:</b>	\$51,700
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$2,777,322	<b>Total Estimated Cost:</b>	\$2,343,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared, and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	4						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074032 Temporary Concrete Washout Facility - EA	2	\$1,300.00	\$2,600	\$1,000.00	\$2,000	2	\$2,600
022424 Temporaray Entrance/Exit - EA	3	\$1,500.00	\$4,500	\$750.00	\$2,250	3	\$4,500
074020 Water Pollution Control (Implementation) - LS	1	\$4,000.00	\$4,000	\$15,909.00	\$15,909	1	\$4,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$1,000.00	\$1,000	\$5,000.00	\$5,000	1	\$1,000
			\$12,100		\$25,159		\$12,100

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$51,700.00

# Caltrans Construction Site WPC Study

EA Number: 04-0S9404

Project Info				Project Costs Summary			
District:	4	Location:	04-SCI-9-9.8	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Storm Damage Repair, Construct Retaining Wal	<b>Total Bid:</b>	\$1,376,060	<b>Total Bid Estimate:</b>	\$1,216,050
Construction Start Date:	5/15/2001	End Date:	2/4/2002	<b>WPC Bid Items:</b>	\$8,000	<b>WPC Bid Items:</b>	\$26,500
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$2,000
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$105,263	<b>Other Supplemental Work:</b>	\$150,800
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,494,448	<b>Total Estimated Cost:</b>	\$1,368,850
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	1	\$2,000.00	\$2,000	\$3,500.00	\$3,500	1	\$2,000
74020 WATER POLLUTION CONTROL - LS	1	\$5,000.00	\$5,000	\$18,000.00	\$18,000	1	\$5,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$5,000.00	\$5,000	1	\$1,000
			\$8,000		\$26,500		\$8,000

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$2,000
	\$2,000

Other Supplemental Work: \$150,800.00

# Caltrans Construction Site WPC Study

EA Number: 04-0t0504

Project Info				Project Costs Summary			
District:	4	Location:	04-Sol-80-0.9/6.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Pavement Rehabilitation And Concrete Barrier.	<b>Total Bid:</b>	\$13,491,461	<b>Total Bid Estimate:</b>	\$13,507,884
Construction Start Date:	6/20/2001	End Date:	12/31/2003	<b>WPC Bid Items:</b>	\$22,500	<b>WPC Bid Items:</b>	\$39,200
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$19,589	<b>WPC Supplemental Work:</b>	\$5,000
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$3,567,971	<b>Other Supplemental Work:</b>	\$412,500
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$16,011,691	<b>Total Estimated Cost:</b>	\$13,925,384
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$36,000.00	\$36,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,500.00	\$2,500	\$3,200.00	\$3,200	1	\$2,500
			\$22,500		\$39,200		\$22,500

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$5,000
	\$5,000

Other Supplemental Work: \$412,500.00

# Caltrans Construction Site WPC Study

EA Number: 04-176804

Project Info				Project Costs Summary			
District:	4	Location:	04-ALA-680- 20.1/21.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	REPLACEMENT PLANTING AND IRRIGATION	<b>Total Bid:</b>	\$1,295,800	<b>Total Bid Estimate:</b>	\$1,692,500
Construction Start Date:	7/12/2000	End Date:	9/27/2004	<b>WPC Bid Items:</b>	\$7,000	<b>WPC Bid Items:</b>	\$6,500
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	4	<b>WPC CCOs:</b>	\$1,725	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$51,886	<b>Other Supplemental Work:</b>	\$51,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,336,811	<b>Total Estimated Cost:</b>	\$1,743,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$6,000.00	\$6,000	\$5,000.00	\$5,000	1	\$6,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$1,500.00	\$1,500	1	\$1,000
			\$7,000		\$6,500		\$7,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$51,000.00

# Caltrans Construction Site WPC Study

EA Number: 04-1s2504

Project Info				Project Costs Summary			
District:	4	Location:	04-Son-1-39.7/41.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Repair Storm Damage	<b>Total Bid:</b>	\$3,403,981	<b>Total Bid Estimate:</b>	\$4,998,000
Construction Start Date:	8/21/2001	End Date:	7/31/2003	<b>WPC Bid Items:</b>	\$119,185	<b>WPC Bid Items:</b>	\$65,400
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$13,746	<b>WPC Supplemental Work:</b>	\$5,500
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$1,110,524	<b>Other Supplemental Work:</b>	\$413,200
Disturbed Area:	2.8 Hectares			<b>Final Pay:</b>	\$4,505,476	<b>Total Estimated Cost:</b>	\$5,416,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	1	\$5,000.00	\$5,000	\$2,200.00	\$2,200	1	\$5,000
21725 TEMPORARY COVER - LS	1	\$5,000.00	\$5,000	\$36,700.00	\$36,700	1	\$5,000
74029 TEMPORARY SILT FENCE - M	610	\$8.50	\$5,185	\$10.00	\$6,100	636	\$5,406
74020 WATER POLLUTION CONTROL - LS	1	\$100,000.00	\$100,000	\$15,000.00	\$15,000	1	\$100,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$4,000.00	\$4,000	\$5,400.00	\$5,400	1	\$4,000
			\$119,185		\$65,400		\$119,406

Supplemental Bid Items	
Item Description	Cost
WATER POLLUTION CONTROL MAINTENANCE	\$4,000
ADDITIONAL WATER POLLUTION CONTROL	\$1,500
	\$5,500

Other Supplemental Work: \$413,200.00

# Caltrans Construction Site WPC Study

EA Number: 04-1s2724

Project Info				Project Costs Summary			
District:	4	Location:	04-SM-84-16.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Repair Storm Damage	<b>Total Bid:</b>	\$849,123	<b>Total Bid Estimate:</b>	\$870,000
Construction Start Date:	9/9/2003	End Date:	8/2/2004	<b>WPC Bid Items:</b>	\$8,320	<b>WPC Bid Items:</b>	\$21,200
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$18,000
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$39,030	<b>Other Supplemental Work:</b>	\$17,000
Disturbed Area:	0.1 Hectares			<b>Final Pay:</b>	\$914,977	<b>Total Estimated Cost:</b>	\$905,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	6						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74034 TEMPORARY COVER - M2	200	\$2.00	\$400	\$7.00	\$1,400	109	\$218
74033 TEMPORARY CONSTRUCTION ENTRANCE - EA	1	\$500.00	\$500	\$2,000.00	\$2,000	0	\$0
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	1	\$500.00	\$500	\$2,000.00	\$2,000	1	\$500
74025 TEMPORARY SOIL STABILIZER - M2	800	\$2.40	\$1,920	\$1.00	\$800	0	\$0
74020 WATER POLLUTION CONTROL - LS	1	\$2,500.00	\$2,500	\$10,000.00	\$10,000	1	\$2,500
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,500.00	\$2,500	\$5,000.00	\$5,000	1	\$2,500
			\$8,320		\$21,200		\$5,718

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$10,000
ADDITIONAL WATER POLLUTION CONTROL	\$3,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$5,000
	\$18,000

Other Supplemental Work: \$17,000.00

# Caltrans Construction Site WPC Study

EA Number: 04-205704

Project Info				Project Costs Summary			
District:	4	Location:	04-SCI-680,280-M2.2/M11.4,R0.5/R2	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Highway Planting Restoration	<b>Total Bid:</b>	\$1,113,839	<b>Total Bid Estimate:</b>	\$1,263,000
Construction Start Date:	1/29/2002	End Date:	3/18/2004	<b>WPC Bid Items:</b>	\$26,310	<b>WPC Bid Items:</b>	\$48,450
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$10,000
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$130,899	<b>Other Supplemental Work:</b>	\$151,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,250,430	<b>Total Estimated Cost:</b>	\$1,424,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	7						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
22005 TEMPORARY DRAINAGE INLET PROTECTION - EA	20	\$91.00	\$1,820	\$150.00	\$3,000	20	\$1,820
22007 Temporaray Entrance/Exit - EA	1	\$4,665.00	\$4,665	\$2,000.00	\$2,000	0	\$0
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	1	\$751.00	\$751	\$4,000.00	\$4,000	0	\$0
17164 TEMPORARY DRAINAGE INLET PROTECTION - EA	3	\$163.00	\$489	\$150.00	\$450	3	\$489
22004 TEMPORARY COVER - LS	1	\$6,085.00	\$6,085	\$1,500.00	\$1,500	1	\$6,085
74020 WATER POLLUTION CONTROL - LS	1	\$7,050.00	\$7,050	\$34,000.00	\$34,000	1	\$7,050
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,450.00	\$5,450	\$3,500.00	\$3,500	1	\$5,450
			\$26,310		\$48,450		\$20,894

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL WATER POLLUTION CONTROL MEASURES	\$10,000	
	\$10,000	
Other Supplemental Work:	\$151,000.00	

# Caltrans Construction Site WPC Study

EA Number: 04-228924

Project Info				Project Costs Summary			
District:	4	Location:	04-CC-04-2.4/4.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Freeway To Be Widened	<b>Total Bid:</b>	\$9,972,479	<b>Total Bid Estimate:</b>	\$11,165,600
Construction Start Date:	2/2/2000	End Date:	9/24/2002	<b>WPC Bid Items:</b>	\$106,100	<b>WPC Bid Items:</b>	\$121,722
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$27,315	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$2,722,091	<b>Other Supplemental Work:</b>	\$71,100
Disturbed Area:	4.6 Hectares			<b>Final Pay:</b>	\$13,538,209	<b>Total Estimated Cost:</b>	\$11,236,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	7						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74029 TEMPORARY SILT FENCE - M	3500	\$6.00	\$21,000	\$7.27	\$25,445	5000	\$30,000
17169 TEMPORARY CONSTRUCTION ROAD ENTRANCE/EXIT - LS	1	\$2,000.00	\$2,000	\$3,000.00	\$3,000	1	\$2,000
17167 TEMPORARY EROSION CONTROL (BLANKET) - M2	9700	\$3.00	\$29,100	\$4.50	\$43,650	4985.89	\$14,958
17166 TEMPORARY CONCRETE WASHOUT - EA	4	\$1,500.00	\$6,000	\$1,225.00	\$4,900	4	\$6,000
17164 TEMPORARY DRAINAGE INLET PROTECTION - EA	54	\$500.00	\$27,000	\$272.73	\$14,727	56	\$28,000
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$25,000.00	\$25,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$5,000.00	\$5,000	1	\$1,000
			\$106,100		\$121,722		\$101,958

Supplemental Bid Items	
Item Description	Cost

Other Supplemental Work: \$71,100.00

# Caltrans Construction Site WPC Study

EA Number: 04-253714

Project Info				Project Costs Summary			
District:	4	Location:	04-SCI,Ala-680-M11.9/M15.9,M0.0/R	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Interim Southbound Hov Lane	<b>Total Bid:</b>	\$20,654,321	<b>Total Bid Estimate:</b>	\$23,265,222
Construction Start Date:	4/11/2001	End Date:	2/18/2003	<b>WPC Bid Items:</b>	\$69,900	<b>WPC Bid Items:</b>	\$154,120
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$83,364	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$2,725,975	<b>Other Supplemental Work:</b>	\$1,023,300
Disturbed Area:	8.5 Hectares			<b>Final Pay:</b>	\$24,524,087	<b>Total Estimated Cost:</b>	\$24,288,522
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	9						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74028 TEMPORARY FIBER ROLL - M	10	\$200.00	\$2,000	\$184.00	\$1,840	3	\$600
20604 TEMPORARY DRAINAGE INLET PROTECTION - EA	50	\$200.00	\$10,000	\$230.00	\$11,500	113	\$22,600
074034 Temporary Cover - M2	1	\$10,000.00	\$10,000	\$8,280.00	\$8,280	1	\$10,000
20602 Temporaray Entrance/Exit - EA	1	\$5,000.00	\$5,000	\$6,900.00	\$6,900	1	\$5,000
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	1	\$5,000.00	\$5,000	\$9,200.00	\$9,200	1	\$5,000
74029 TEMPORARY SILT FENCE - M	1000	\$20.00	\$20,000	\$8.30	\$8,300	1431	\$28,620
74023 TEMPORARY EROSION CONTROL - M2	23000	\$0.30	\$6,900	\$0.50	\$11,500	32956	\$9,887
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$92,000.00	\$92,000	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$4,600.00	\$4,600	1	\$1,000
			\$69,900		\$154,120		\$92,707

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$1,023,300.00

# Caltrans Construction Site WPC Study

EA Number: 04-2724U4

Project Info				Project Costs Summary			
District:	4	Location:	04-Son-12,101-R20.3/T28.1-T28.3,2	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Freeway To Be Widened By Grading And Const	<b>Total Bid:</b>	\$17,449,513	<b>Total Bid Estimate:</b>	\$18,697,717
Construction Start Date:	1/31/2001	End Date:	12/24/2003	<b>WPC Bid Items:</b>	\$169,877	<b>WPC Bid Items:</b>	\$167,869
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$13,960	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$2,747,209	<b>Other Supplemental Work:</b>	\$580,900
Disturbed Area:	5.7 Hectares			<b>Final Pay:</b>	\$20,425,794	<b>Total Estimated Cost:</b>	\$19,278,617
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	9						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74028 TEMPORARY FIBER ROLL - M	10	\$350.00	\$3,500	\$90.00	\$900	18	\$6,300
19123 Temporaray Entrance/Exit - EA	1	\$20,000.00	\$20,000	\$6,400.00	\$6,400	1	\$20,000
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	1	\$6,000.00	\$6,000	\$2,900.00	\$2,900	1	\$6,000
19120 TEMPORARY DRAINAGE INLET PROTECTION - EA	55	\$467.76	\$25,727	\$225.00	\$12,375	78	\$36,485
19119 TEMPORARY COVER - LS	1	\$4,000.00	\$4,000	\$32,000.00	\$32,000	1	\$4,000
74031 TEMPORARY SAND BAG - EA	850	\$25.00	\$21,250	\$13.00	\$11,050	1938	\$48,450
74029 TEMPORARY SILT FENCE - M	7240	\$10.00	\$72,400	\$8.10	\$58,644	2614.65	\$26,147
74020 WATER POLLUTION CONTROL - LS	1	\$15,000.00	\$15,000	\$40,000.00	\$40,000	1	\$15,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,000.00	\$2,000	\$3,600.00	\$3,600	1	\$2,000
			\$169,877		\$167,869		\$164,382

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$580,900.00

# Caltrans Construction Site WPC Study

EA Number: 04-448504

Project Info				Project Costs Summary			
District:	4	Location:	04-SCL-25-/2.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	WIDEN EXISTING HIGHWAY	<b>Total Bid:</b>	\$4,673,590	<b>Total Bid Estimate:</b>	\$6,772,000
Construction Start Date:	8/8/2003	End Date:	11/4/2004	<b>WPC Bid Items:</b>	\$138,450	<b>WPC Bid Items:</b>	\$107,500
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$31,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$508,899	<b>Other Supplemental Work:</b>	\$203,500
Disturbed Area:	8.1 Hectares			<b>Final Pay:</b>	\$4,699,806	<b>Total Estimated Cost:</b>	\$7,006,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	7						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
31185 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX) - M2	39000	\$0.80	\$31,200	\$0.80	\$31,200	8541	\$6,833
074034 Temporary Cover - M2	2500	\$3.00	\$7,500	\$6.30	\$15,750	2500	\$7,500
074033 Temporary Construction Entrance - EA	10	\$750.00	\$7,500	\$1,100.00	\$11,000	10	\$7,500
074032 Temporary Concrete Washout Facility - EA	3	\$750.00	\$2,250	\$1,100.00	\$3,300	3	\$2,250
074029 Temporary Silt Fence - M	2500	\$12.00	\$30,000	\$10.50	\$26,250	2477	\$29,724
074020 Water Pollution Control (Implementation) - LS	1	\$50,000.00	\$50,000	\$10,000.00	\$10,000	1	\$50,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$10,000.00	\$10,000	\$10,000.00	\$10,000	1	\$10,000
			\$138,450		\$107,500		\$113,807

Supplemental Bid Items		
Item Description	Cost	
STORM WATER SAMPLING AND ANALYSIS	\$20,000	
ADDITIONAL WATER POLLUTION CONTROL	\$1,000	
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$10,000	
	\$31,000	

Other Supplemental Work: \$203,500.00

# Caltrans Construction Site WPC Study

EA Number: 04-4874a4

Project Info				Project Costs Summary			
District:	4	Location:	04-SCI-87-12.2/14.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Embankment, Riparian Grading, Retaining Wall	<b>Total Bid:</b>	\$13,821,111	<b>Total Bid Estimate:</b>	\$29,163,000
Construction Start Date:	4/4/2000	End Date:	12/19/2002	<b>WPC Bid Items:</b>	\$94,575	<b>WPC Bid Items:</b>	\$132,280
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$50,000
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$1,889,464	<b>Other Supplemental Work:</b>	\$373,000
Disturbed Area:	2.1 Hectares			<b>Final Pay:</b>	\$15,625,002	<b>Total Estimated Cost:</b>	\$29,586,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	8						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74029 TEMPORARY SILT FENCE - M	3670	\$7.50	\$27,525	\$9.00	\$33,030	3762	\$28,215
74025 TEMPORARY SOIL STABILIZER - M2	28500	\$1.00	\$28,500	\$1.00	\$28,500	21565	\$21,565
17403 TEMPORARY DRAINAGE INLET PROTECTION - EA	13	\$850.00	\$11,050	\$250.00	\$3,250	13	\$11,050
17402 TEMPORARY COVER - LS	1	\$6,500.00	\$6,500	\$1,500.00	\$1,500	1	\$6,500
17401 TEMPORARY CONCRETE WASHOUT FACILITY - LS	1	\$5,500.00	\$5,500	\$7,500.00	\$7,500	1	\$5,500
74020 WATER POLLUTION CONTROL - LS	1	\$15,000.00	\$15,000	\$55,000.00	\$55,000	1	\$15,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$500.00	\$500	\$3,500.00	\$3,500	1	\$500
			\$94,575		\$132,280		\$88,330

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL STORM WATER POLLUTION PREVENTION	\$50,000	
	\$50,000	

Other Supplemental Work: \$373,000.00

# Caltrans Construction Site WPC Study

EA Number: 04-4874q4

Project Info				Project Costs Summary			
District:	4	Location:	04-SCI-87-10.0/11.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Freeway To Be Widened	<b>Total Bid:</b>	\$28,982,874	<b>Total Bid Estimate:</b>	\$33,535,000
Construction Start Date:	1/12/2000	End Date:	9/22/2003	<b>WPC Bid Items:</b>	\$183,400	<b>WPC Bid Items:</b>	\$106,265
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$1,066	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$3,654,535	<b>Other Supplemental Work:</b>	\$519,200
Disturbed Area:	2.4 Hectares			<b>Final Pay:</b>	\$32,043,982	<b>Total Estimated Cost:</b>	\$34,054,200
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	7						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
16953 TEMPORARY CONCRETE WASHOUT - EA	4	\$1,500.00	\$6,000	\$550.00	\$2,200	4	\$6,000
16952 TEMPORARY DRAINAGE INLET PROTECTION - EA	51	\$300.00	\$15,300	\$250.00	\$12,750	44	\$13,200
16951 TEMPORARY COVER - M2	600	\$15.00	\$9,000	\$2.40	\$1,440	3016	\$45,240
74029 TEMPORARY SILT FENCE - M	2000	\$8.00	\$16,000	\$9.00	\$18,000	855	\$6,840
74023 TEMPORARY EROSION CONTROL - M2	21500	\$0.40	\$8,600	\$1.25	\$26,875	53274.85	\$21,310
74020 WATER POLLUTION CONTROL - LS	1	\$125,000.00	\$125,000	\$40,000.00	\$40,000	1	\$125,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$3,500.00	\$3,500	\$5,000.00	\$5,000	1	\$3,500
			\$183,400		\$106,265		\$221,090

Supplemental Bid Items	
Item Description	Cost

Other Supplemental Work: \$519,200.00

# Caltrans Construction Site WPC Study

EA Number: 04-4874s4

Project Info				Project Costs Summary			
District:	4	Location:	04-SCI-87-11.2/12.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Construct Earthwork, Bridge, Retaining Walls A	<b>Total Bid:</b>	\$9,621,440	<b>Total Bid Estimate:</b>	\$11,026,100
Construction Start Date:	1/19/2000	End Date:	11/19/2001	<b>WPC Bid Items:</b>	\$31,285	<b>WPC Bid Items:</b>	\$53,240
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$111,784	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	2 - San Francisco Bay			<b>Other CCOs:</b>	\$2,378,780	<b>Other Supplemental Work:</b>	\$234,600
Disturbed Area:	0.3 Hectares			<b>Final Pay:</b>	\$11,638,480	<b>Total Estimated Cost:</b>	\$11,260,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	8						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74029 TEMPORARY SILT FENCE - M	550	\$7.00	\$3,850	\$9.00	\$4,950	0	\$0
74025 TEMPORARY SOIL STABILIZER - M2	6720	\$0.75	\$5,040	\$1.00	\$6,720	0	\$0
74023 TEMPORARY EROSION CONTROL - M2	3130	\$1.50	\$4,695	\$1.00	\$3,130	0	\$0
17006 TEMPORARY DRAINAGE INLET PROTECTION - EA	4	\$550.00	\$2,200	\$250.00	\$1,000	4	\$2,200
17005 TEMPORARY COVER - LS	1	\$2,000.00	\$2,000	\$1,440.00	\$1,440	1	\$2,000
17004 TEMPORARY CONCRETE WASHOUT FACILITIES - LS	1	\$2,500.00	\$12,000	\$2,500.00	\$2,500	1	\$12,000
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$30,000.00	\$30,000	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$3,500.00	\$3,500	1	\$1,000
			\$40,785		\$53,240		\$27,200

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$234,600.00

**Caltrans Construction Site WPC Study**

EA Number: 05-016174

Project Info				Project Costs Summary			
District:	5	Location:	05-Mon-101-153.8/155.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Construct New Interchange And Retaining Wall	<b>Total Bid:</b>	\$6,793,144	<b>Total Bid Estimate:</b>	\$7,172,837
Construction Start Date:	4/25/2000	End Date:	6/29/2004	<b>WPC Bid Items:</b>	\$80,100	<b>WPC Bid Items:</b>	\$71,340
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	4	<b>WPC CCOs:</b>	\$714,755	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$828,263	<b>Other Supplemental Work:</b>	\$216,300
Disturbed Area:	4.4 Hectares			<b>Final Pay:</b>	\$8,161,807	<b>Total Estimated Cost:</b>	\$7,389,137
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	4						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74030 TEMPORARY STRAW BALE - EA	1030	\$20.00	\$20,600	\$28.00	\$28,840	885	\$17,700
74029 TEMPORARY SILT FENCE - M	300	\$15.00	\$4,500	\$25.00	\$7,500	3065	\$45,975
74020 WATER POLLUTION CONTROL - LS	1	\$50,000.00	\$50,000	\$30,000.00	\$30,000	1	\$50,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$5,000.00	\$5,000	1	\$5,000
			\$80,100		\$71,340		\$118,675

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$216,300.00

**Caltrans Construction Site WPC Study**

EA Number: 05-0G5304

Project Info				Project Costs Summary			
District:	5	Location:	05-SLO-46-7.3/7.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Slide Repair	<b>Total Bid:</b>	\$1,921,341	<b>Total Bid Estimate:</b>	\$1,897,000
Construction Start Date:	7/19/2001	End Date:	1/14/2002	<b>WPC Bid Items:</b>	\$2,300	<b>WPC Bid Items:</b>	\$6,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$1,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$22,948	<b>Other Supplemental Work:</b>	\$50,000
Disturbed Area:	2.5 Hectares			<b>Final Pay:</b>	\$2,078,127	<b>Total Estimated Cost:</b>	\$1,948,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

**Project WPC Costs**

Item Description	Bid Items						Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total			
74020 WATER POLLUTION CONTROL - LS	1	\$1,300.00	\$1,300	\$5,000.00	\$5,000	1	\$1,300	
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$1,000.00	\$1,000	1	\$1,000	
			\$2,300		\$6,000		\$2,300	

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$1,000
	\$1,000

Other Supplemental Work: \$50,000.00

# Caltrans Construction Site WPC Study

EA Number: 05-0J3304

Project Info				Project Costs Summary			
District:	5	Location:	05-SB-101-40.4/41.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	CONCRETE MEDIAN BARRRIER	<b>Total Bid:</b>	\$1,104,414	<b>Total Bid Estimate:</b>	\$905,000
Construction Start Date:	9/10/2004	End Date:	4/20/2006	<b>WPC Bid Items:</b>	\$8,465	<b>WPC Bid Items:</b>	\$19,090
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$23,000
Water Quality Board:	3 - Central Coast			<b>Other CCOs:</b>	\$19,702	<b>Other Supplemental Work:</b>	\$76,500
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$650,096	<b>Total Estimated Cost:</b>	\$1,004,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074032 Temporary Concrete Washout Facility - EA	1	\$1,265.00	\$1,265	\$6,820.00	\$6,820	0.6	\$759
074020 Water Pollution Control (Implementation) - LS	1	\$3,700.00	\$3,700	\$9,090.00	\$9,090	0.51	\$18,887
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$3,500.00	\$3,500	\$3,180.00	\$3,180	0.75	\$2,625
			\$8,465		\$19,090		\$22,271

Supplemental Bid Items		
Item Description	Cost	
STORM WATER SAMPLING AND ANALYSIS	\$4,000	
ADDITIONAL WATER POLLUTION CONTROL	\$18,000	
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$1,000	
	\$23,000	

Other Supplemental Work: \$76,500.00

# Caltrans Construction Site WPC Study

EA Number: 05-388204

Project Info				Project Costs Summary			
District:	5	Location:	05-SBt-101-0.5/2.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Highway Curve To Be Realigned By Grading An	<b>Total Bid:</b>	\$2,728,728	<b>Total Bid Estimate:</b>	\$3,068,000
Construction Start Date:	5/17/2000	End Date:	9/8/2003	<b>WPC Bid Items:</b>	\$16,400	<b>WPC Bid Items:</b>	\$38,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	3 - Central Coast			<b>Other CCOs:</b>	\$469,798	<b>Other Supplemental Work:</b>	\$140,400
Disturbed Area:	2.5 Hectares			<b>Final Pay:</b>	\$3,089,689	<b>Total Estimated Cost:</b>	\$3,208,400
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74029 TEMPORARY SILT FENCE - M	100	\$54.00	\$5,400	\$30.00	\$3,000	75	\$4,050
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$30,000.00	\$30,000	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$5,000.00	\$5,000	1	\$1,000
			\$16,400		\$38,000		\$15,050

## Supplemental Bid Items

Item Description	Cost
Other Supplemental Work:	\$140,400.00

# Caltrans Construction Site WPC Study

EA Number: 05-448314

Project Info				Project Costs Summary			
District:	5	Location:	05-SB-101-1.6/20.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Pavement Rehabilitation	<b>Total Bid:</b>	\$13,837,837	<b>Total Bid Estimate:</b>	\$14,692,000
Construction Start Date:	9/19/2001	End Date:	4/14/2004	<b>WPC Bid Items:</b>	\$66,800	<b>WPC Bid Items:</b>	\$100,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$10,640	<b>WPC Supplemental Work:</b>	\$80,000
Water Quality Board:	3 - Central Coast			<b>Other CCOs:</b>	\$3,021,039	<b>Other Supplemental Work:</b>	\$593,400
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$15,496,581	<b>Total Estimated Cost:</b>	\$15,365,400
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$60,000.00	\$60,000	\$90,000.00	\$90,000	1	\$60,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,800.00	\$6,800	\$10,000.00	\$10,000	1	\$6,800
			\$66,800		\$100,000		\$66,800

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL WATER POLLUTION CONTROL		\$80,000
		\$80,000

Other Supplemental Work: \$593,400.00

# Caltrans Construction Site WPC Study

EA Number: 05-469204

Project Info				Project Costs Summary			
District:	5	Location:	05-SB-166-10.6/14.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Pavement Rehabilitation	<b>Total Bid:</b>	\$5,420,348	<b>Total Bid Estimate:</b>	\$6,963,000
Construction Start Date:	3/19/2002	End Date:	6/21/2004	<b>WPC Bid Items:</b>	\$15,000	<b>WPC Bid Items:</b>	\$110,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	3 - Central Coast			<b>Other CCOs:</b>	\$924,213	<b>Other Supplemental Work:</b>	\$452,700
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$6,406,842	<b>Total Estimated Cost:</b>	\$7,415,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$100,000.00	\$100,000	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$10,000.00	\$10,000	1	\$5,000
			\$15,000		\$110,000		\$15,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$452,700.00

# Caltrans Construction Site WPC Study

EA Number: 05-487404

Project Info				Project Costs Summary			
District:	5	Location:	05-SB-1-M48.1/R58.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway Rehabilitation	<b>Total Bid:</b>	\$4,486,376	<b>Total Bid Estimate:</b>	\$4,628,000
Construction Start Date:	11/20/2002	End Date:	1/27/2004	<b>WPC Bid Items:</b>	\$15,500	<b>WPC Bid Items:</b>	\$15,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$15,000
Water Quality Board:	3 - Central Coast			<b>Other CCOs:</b>	(\$404,192)	<b>Other Supplemental Work:</b>	\$277,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$4,902,963	<b>Total Estimated Cost:</b>	\$4,920,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance - Shared ,and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 Water Pollution Control (Implementation) - LS	1	\$13,000.00	\$13,000	\$10,000.00	\$10,000	1	\$13,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$2,500.00	\$2,500	\$5,000.00	\$5,000	1	\$2,500
			\$15,500		\$15,000		\$15,500

Supplemental Bid Items	
Item Description	Cost
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$15,000
	\$15,000

Other Supplemental Work: \$277,000.00

# Caltrans Construction Site WPC Study

EA Number: 06-3215U4

Project Info				Project Costs Summary			
District:	6	Location:	06-KIN-41-4.2/11.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	RAISE GRADE ON NEW ALIGNMENT	<b>Total Bid:</b>	\$8,881,894	<b>Total Bid Estimate:</b>	\$11,384,000
Construction Start Date:	7/8/2003	End Date:	9/20/2004	<b>WPC Bid Items:</b>	\$15,000	<b>WPC Bid Items:</b>	\$187,000
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$49,255	<b>WPC Supplemental Work:</b>	\$80,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$661,281	<b>Other Supplemental Work:</b>	\$436,860
Disturbed Area:	16.0 Hectares			<b>Final Pay:</b>	\$9,097,126	<b>Total Estimated Cost:</b>	\$11,900,860
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074020 Water Pollution Control (Implementation) - LS	1	\$10,000.00	\$10,000	\$175,000.00	\$175,000	1	\$10,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$12,000.00	\$12,000	1	\$5,000
			\$15,000		\$187,000		\$15,000

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$20,000
ADDITIONAL WATER POLLUTION CONTROL	\$25,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$35,000
	\$80,000
Other Supplemental Work:	\$436,860.00

# Caltrans Construction Site WPC Study

EA Number: 06-323634

Project Info				Project Costs Summary			
District:	6	Location:	06-Tul-190-69.7/70.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Widening	<b>Total Bid:</b>	\$2,295,496	<b>Total Bid Estimate:</b>	\$2,607,000
Construction Start Date:	5/22/2002	End Date:	6/26/2003	<b>WPC Bid Items:</b>	\$12,500	<b>WPC Bid Items:</b>	\$40,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$12,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$71,375	<b>Other Supplemental Work:</b>	\$83,000
Disturbed Area:	1.1 Hectares			<b>Final Pay:</b>	\$2,376,618	<b>Total Estimated Cost:</b>	\$2,702,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$35,000.00	\$35,000	1	\$8,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,500.00	\$2,500	\$5,000.00	\$5,000	1	\$6,000
			\$12,500		\$40,000		\$14,000

Supplemental Bid Items							
Item Description	Cost						
WATER POLLUTION CONTROL MAINTENANCE SHARING							\$12,000
							\$12,000

Other Supplemental Work: \$83,000.00

**Caltrans Construction Site WPC Study**

EA Number: 06-338204

Project Info				Project Costs Summary			
District:	6	Location:	06-Ker-46-32.9/52.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Existing Highway To Be Widened By Grading A	<b>Total Bid:</b>	\$8,234,459	<b>Total Bid Estimate:</b>	\$8,104,000
Construction Start Date:	6/7/2000	End Date:	2/15/2002	<b>WPC Bid Items:</b>	\$28,000	<b>WPC Bid Items:</b>	\$20,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	6 - Lahontan			<b>Other CCOs:</b>	\$100,038	<b>Other Supplemental Work:</b>	\$344,300
Disturbed Area:	40.0 Hectares			<b>Final Pay:</b>	\$9,274,644	<b>Total Estimated Cost:</b>	\$8,448,300
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance and Sampling-Shared Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 Water Pollution Control (Implementation) - LS	1	\$8,000.00	\$8,000	\$15,000.00	\$15,000	1	\$8,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$20,000.00	\$20,000	\$5,000.00	\$5,000	1	\$20,000
			\$28,000		\$20,000		\$28,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$344,300.00

# Caltrans Construction Site WPC Study

EA Number: 06-339604

Project Info				Project Costs Summary			
District:	6	Location:	06-Kin-41-32.0/45.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Rehabilitate Roadway And Widen	<b>Total Bid:</b>	\$8,521,002	<b>Total Bid Estimate:</b>	\$11,432,000
Construction Start Date:	5/7/2002	End Date:	11/26/2003	<b>WPC Bid Items:</b>	\$47,500	<b>WPC Bid Items:</b>	\$105,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$4,090	<b>WPC Supplemental Work:</b>	\$50,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$412,973	<b>Other Supplemental Work:</b>	\$456,900
Disturbed Area:	8.1 Hectares			<b>Final Pay:</b>	\$9,496,734	<b>Total Estimated Cost:</b>	\$11,938,900
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$40,000.00	\$40,000	\$100,000.00	\$100,000	1	\$40,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$7,500.00	\$7,500	\$5,000.00	\$5,000	1	\$7,500
			\$47,500		\$105,000		\$47,500

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL						\$50,000	
						\$50,000	
Other Supplemental Work:	\$456,900.00						

**Caltrans Construction Site WPC Study**

EA Number: 06-342154

Project Info				Project Costs Summary			
District:	6	Location:	06-Fre-41-10.4/26.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Convert Two Lane Expressway To Four Lane E	<b>Total Bid:</b>	\$9,674,380	<b>Total Bid Estimate:</b>	\$10,047,863
Construction Start Date:	10/11/2000	End Date:	3/18/2002	<b>WPC Bid Items:</b>	\$17,500	<b>WPC Bid Items:</b>	\$18,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$800	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$666,373	<b>Other Supplemental Work:</b>	\$202,200
Disturbed Area:	15.0 Hectares			<b>Final Pay:</b>	\$10,711,489	<b>Total Estimated Cost:</b>	\$10,250,063
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$15,000.00	\$15,000	\$13,500.00	\$13,500	1	\$15,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,500.00	\$2,500	\$4,500.00	\$4,500	1	\$2,500
			\$17,500		\$18,000		\$17,500

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$202,200.00

# Caltrans Construction Site WPC Study

EA Number: 06-342324

Project Info				Project Costs Summary			
District:	6	Location:	06-Fre-99,180-34.7/35.5, R89.1/R91.	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Freeway	<b>Total Bid:</b>	\$26,546,315	<b>Total Bid Estimate:</b>	\$26,845,444
Construction Start Date:	9/18/2001	End Date:	5/10/2004	<b>WPC Bid Items:</b>	\$27,500	<b>WPC Bid Items:</b>	\$51,300
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$130,928	<b>WPC Supplemental Work:</b>	\$40,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$3,572,966	<b>Other Supplemental Work:</b>	\$488,900
Disturbed Area:	6.8 Hectares			<b>Final Pay:</b>	\$30,746,779	<b>Total Estimated Cost:</b>	\$27,374,344
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$25,000.00	\$25,000	\$45,000.00	\$45,000	1	\$25,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,500.00	\$2,500	\$6,300.00	\$6,300	1	\$2,500
			\$27,500		\$51,300		\$27,500

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$40,000
	\$40,000

Other Supplemental Work: \$488,900.00

# Caltrans Construction Site WPC Study

EA Number: 06-343604

Project Info				Project Costs Summary			
District:	6	Location:	06-Fre-33-26.7/35.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway To Be Reconstructed	<b>Total Bid:</b>	\$4,190,267	<b>Total Bid Estimate:</b>	\$5,180,000
Construction Start Date:	11/8/2000	End Date:	11/13/2001	<b>WPC Bid Items:</b>	\$30,000	<b>WPC Bid Items:</b>	\$23,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$102,005	<b>Other Supplemental Work:</b>	\$239,900
Disturbed Area:	10.0 Hectares			<b>Final Pay:</b>	\$4,469,002	<b>Total Estimated Cost:</b>	\$5,419,900
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$27,000.00	\$27,000	\$15,000.00	\$15,000	1	\$27,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$3,000.00	\$3,000	\$8,000.00	\$8,000	1	\$3,000
			\$30,000		\$23,000		\$30,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$239,900.00

**Caltrans Construction Site WPC Study**

EA Number: 06-385304

Project Info				Project Costs Summary			
District:	6	Location:	06-Fre-168-R44.1/58.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Rehabilitate Roadway	<b>Total Bid:</b>	\$4,333,750	<b>Total Bid Estimate:</b>	\$4,352,000
Construction Start Date:	11/27/2001	End Date:	11/25/2002	<b>WPC Bid Items:</b>	\$14,000	<b>WPC Bid Items:</b>	\$9,500
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$1,500	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$354,179	<b>Other Supplemental Work:</b>	\$215,200
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$4,273,262	<b>Total Estimated Cost:</b>	\$4,567,200
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance - Shared ,and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$8,000.00	\$8,000	\$8,000.00	\$8,000	1	\$8,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$6,000.00	\$6,000	\$1,500.00	\$1,500	1	\$6,000
			\$14,000		\$9,500		\$14,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$215,200.00

# Caltrans Construction Site WPC Study

EA Number: 06-398104

Project Info				Project Costs Summary			
District:	6	Location:	06-FRE-269-/12.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	WIDEN EXISTING HIGHWAY	<b>Total Bid:</b>	\$6,538,725	<b>Total Bid Estimate:</b>	\$7,374,000
Construction Start Date:	10/3/2003	End Date:	1/4/2005	<b>WPC Bid Items:</b>	\$27,500	<b>WPC Bid Items:</b>	\$70,000
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$33,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$1,139,766	<b>Other Supplemental Work:</b>	\$266,100
Disturbed Area:	7.0 Hectares			<b>Final Pay:</b>	\$8,099,517	<b>Total Estimated Cost:</b>	\$7,673,100
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 Water Pollution Control (Implementation) - LS	1	\$25,000.00	\$25,000	\$60,000.00	\$60,000	1	\$25,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$2,500.00	\$2,500	\$10,000.00	\$10,000	1	\$2,500
			\$27,500		\$70,000		\$27,500

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$13,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$5,000
	\$33,000
Other Supplemental Work:	\$266,100.00

# Caltrans Construction Site WPC Study

EA Number: 06-402904

Project Info				Project Costs Summary			
District:	6	Location:	06-MAD-145-/0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	REPLACE BRIDGE SCOUR	<b>Total Bid:</b>	\$5,224,716	<b>Total Bid Estimate:</b>	\$6,606,000
Construction Start Date:	6/12/2002	End Date:	11/21/2005	<b>WPC Bid Items:</b>	\$59,700	<b>WPC Bid Items:</b>	\$88,584
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	4	<b>WPC CCOs:</b>	\$37,356	<b>WPC Supplemental Work:</b>	\$50,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$368,045	<b>Other Supplemental Work:</b>	\$90,980
Disturbed Area:	3.2 Hectares			<b>Final Pay:</b>	\$5,466,757	<b>Total Estimated Cost:</b>	\$6,746,980
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74030 TEMPORARY STRAW BALE - EA	90	\$30.00	\$2,700	\$50.00	\$4,500	90	\$2,700
74029 TEMPORARY SILT FENCE - M	4000	\$7.00	\$28,000	\$10.00	\$40,000	3889	\$27,223
74028 TEMPORARY FIBER ROLL - M	1000	\$14.00	\$14,000	\$11.50	\$11,500	763	\$10,682
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$25,084.00	\$25,084	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$7,500.00	\$7,500	1	\$5,000
			\$59,700		\$88,584		\$55,605

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$5,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$30,000
	\$50,000
Other Supplemental Work:	\$90,980.00

# Caltrans Construction Site WPC Study

EA Number: 06-403404

Project Info				Project Costs Summary			
District:	6	Location:	06-Tul-65, 190-28.4/33.5, R23.9/R25	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Highway Planting Restoration	<b>Total Bid:</b>	\$1,166,029	<b>Total Bid Estimate:</b>	\$1,348,000
Construction Start Date:	3/19/2002	End Date:	4/20/2004	<b>WPC Bid Items:</b>	\$6,100	<b>WPC Bid Items:</b>	\$45,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$6,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$130,396	<b>Other Supplemental Work:</b>	\$37,700
Disturbed Area:	3.0 Hectares			<b>Final Pay:</b>	\$1,298,409	<b>Total Estimated Cost:</b>	\$1,391,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$5,000.00	\$5,000	\$40,000.00	\$40,000	1	\$5,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,100.00	\$1,100	\$5,000.00	\$5,000	1	\$1,100
			\$6,100		\$45,000		\$6,100

Supplemental Bid Items							
Item Description	Cost						
WATER POLLUTION CONTROL MAINTENANCE SHARING						\$6,000	
						\$6,000	

Other Supplemental Work: \$37,700.00

# Caltrans Construction Site WPC Study

EA Number: 06-407704

Project Info				Project Costs Summary			
District:	6	Location:	06-Ker-202-14.3/R15.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Replace Bridge And Reconstruct Roadway	<b>Total Bid:</b>	\$6,179,489	<b>Total Bid Estimate:</b>	\$6,201,933
Construction Start Date:	5/22/2001	End Date:	1/2/2003	<b>WPC Bid Items:</b>	\$10,500	<b>WPC Bid Items:</b>	\$124,750
Rainy Season:	11/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$49,466	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	6 - Lahontan			<b>Other CCOs:</b>	\$687,600	<b>Other Supplemental Work:</b>	\$264,942
Disturbed Area:	1.9 Hectares			<b>Final Pay:</b>	\$7,139,287	<b>Total Estimated Cost:</b>	\$6,466,875
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$5,750.00	\$5,750	1	\$10,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$500.00	\$500	\$119,000.00	\$119,000	1	\$500
			\$10,500		\$124,750		\$10,500

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$264,942.00

# Caltrans Construction Site WPC Study

EA Number: 06-415304

Project Info				Project Costs Summary			
District:	6	Location:	06-Tul-198-53.5/54.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Realign Roadway And Replace Bridge	<b>Total Bid:</b>	\$3,231,977	<b>Total Bid Estimate:</b>	\$4,002,000
Construction Start Date:	9/24/2002	End Date:	6/8/2004	<b>WPC Bid Items:</b>	\$31,000	<b>WPC Bid Items:</b>	\$70,073
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$37,500
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$158,833	<b>Other Supplemental Work:</b>	\$140,200
Disturbed Area:	1.0 Hectares			<b>Final Pay:</b>	\$3,390,057	<b>Total Estimated Cost:</b>	\$4,179,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance - Shared ,and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074020 Water Pollution Control (Implementation) - LS	1	\$25,000.00	\$25,000	\$63,073.00	\$63,073	1	\$25,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$6,000.00	\$6,000	\$7,000.00	\$7,000	1	\$6,000
			\$31,000		\$70,073		\$31,000

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$7,500
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$15,000
	\$37,500
Other Supplemental Work:	\$140,200.00

# Caltrans Construction Site WPC Study

EA Number: 06-435804

Project Info				Project Costs Summary			
District:	6	Location:	06-KER-58-56.4/58.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	BRIDGE WIDENING	<b>Total Bid:</b>	\$3,226,639	<b>Total Bid Estimate:</b>	\$2,812,000
Construction Start Date:	6/26/2003	End Date:	10/20/2004	<b>WPC Bid Items:</b>	\$5,500	<b>WPC Bid Items:</b>	\$64,000
Rainy Season:	10/15 to 4/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$1,481	<b>WPC Supplemental Work:</b>	\$26,000
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$176,386	<b>Other Supplemental Work:</b>	\$96,000
Disturbed Area:	0.3 Hectares			<b>Final Pay:</b>	\$3,329,153	<b>Total Estimated Cost:</b>	\$2,934,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074020 Water Pollution Control (Implementation) - LS	1	\$5,000.00	\$5,000	\$60,000.00	\$60,000	1	\$5,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$500.00	\$500	\$4,000.00	\$4,000	1	\$500
			\$5,500		\$64,000		\$5,500

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$5,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$6,000
	\$26,000
Other Supplemental Work:	\$96,000.00

# Caltrans Construction Site WPC Study

EA Number: 06-459304

Project Info				Project Costs Summary			
District:	6	Location:	06-Tul-198-56.8/58.8	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Realign Roadway	<b>Total Bid:</b>	\$1,592,262	<b>Total Bid Estimate:</b>	\$1,691,000
Construction Start Date:	8/19/2003	End Date:	6/8/2004	<b>WPC Bid Items:</b>	\$15,000	<b>WPC Bid Items:</b>	\$47,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$32,750
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$84,630	<b>Other Supplemental Work:</b>	\$55,000
Disturbed Area:	0.6 Hectares			<b>Final Pay:</b>	\$1,544,547	<b>Total Estimated Cost:</b>	\$1,778,750
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance - Shared ,and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 Water Pollution Control (Implementation) - LS	1	\$10,000.00	\$10,000	\$40,000.00	\$40,000	1	\$10,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$7,000.00	\$7,000	1	\$5,000
			\$15,000		\$47,000		\$15,000

Supplemental Bid Items							
Item Description	Cost						
STORM WATER SAMPLING AND ANALYSIS				\$15,000			
ADDITIONAL WATER POLLUTION CONTROL				\$17,500			
WATER POLLUTION CONTROL MAINTENANCE SHARING				\$250			
				\$32,750			
Other Supplemental Work:	\$55,000.00						

# Caltrans Construction Site WPC Study

EA Number: 06-499804

Project Info				Project Costs Summary			
District:	6	Location:	06-Fre-99-32.5/50.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Rehabilitate Pavement And Widening	<b>Total Bid:</b>	\$4,871,453	<b>Total Bid Estimate:</b>	\$4,103,865
Construction Start Date:	7/16/2003	End Date:	7/19/2004	<b>WPC Bid Items:</b>	\$15,000	<b>WPC Bid Items:</b>	\$45,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$17,500
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$553,660	<b>Other Supplemental Work:</b>	\$228,500
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$6,017,991	<b>Total Estimated Cost:</b>	\$4,349,865
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance - Shared ,and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 Water Pollution Control (Implementation) - LS	1	\$10,000.00	\$10,000	\$40,000.00	\$40,000	1	\$10,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$5,000.00	\$5,000	1	\$5,000
			\$15,000		\$45,000		\$15,000

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$12,500
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$5,000
	\$17,500

Other Supplemental Work: \$228,500.00

# Caltrans Construction Site WPC Study

EA Number: 07-023134

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-710-21.9/22.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Sound Wall	<b>Total Bid:</b>	\$841,379	<b>Total Bid Estimate:</b>	\$1,076,000
Construction Start Date:	3/6/2003	End Date:	2/26/2004	<b>WPC Bid Items:</b>	\$6,000	<b>WPC Bid Items:</b>	\$37,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$23,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$90,406	<b>Other Supplemental Work:</b>	\$125,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$772,284	<b>Total Estimated Cost:</b>	\$1,224,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 WATER POLLUTION CONTROL - LS	1	\$5,000.00	\$5,000	\$30,000.00	\$30,000	1	\$5,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$1,000.00	\$1,000	\$7,000.00	\$7,000	1	\$1,000
			\$6,000		\$37,000		\$6,000

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$5,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$3,000
	\$23,000
Other Supplemental Work:	\$125,000.00

# Caltrans Construction Site WPC Study

EA Number: 07-0239A4

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-60-21.8/22.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway	<b>Total Bid:</b>	\$1,545,241	<b>Total Bid Estimate:</b>	\$1,755,000
Construction Start Date:	1/21/2004	End Date:	4/30/2005	<b>WPC Bid Items:</b>	\$16,500	<b>WPC Bid Items:</b>	\$100,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$60,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$65,468	<b>Other Supplemental Work:</b>	\$89,600
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,592,513	<b>Total Estimated Cost:</b>	\$1,904,600
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$1,500.00	\$1,500	\$15,000.00	\$15,000	1	\$1,500
074020 WATER POLLUTION CONTROL - LS	1	\$15,000.00	\$15,000	\$85,000.00	\$85,000	1	\$15,000
			\$16,500		\$100,000		\$16,500

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$20,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$25,000
	\$60,000
Other Supplemental Work:	\$89,600.00

# Caltrans Construction Site WPC Study

EA Number: 07-053394

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-210-56.1/58.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Construct Sound Wall	<b>Total Bid:</b>	\$5,582,512	<b>Total Bid Estimate:</b>	\$6,170,666
Construction Start Date:	9/20/2001	End Date:	8/6/2003	<b>WPC Bid Items:</b>	\$25,000	<b>WPC Bid Items:</b>	\$120,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$300,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$679,967	<b>Other Supplemental Work:</b>	\$245,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$5,776,012	<b>Total Estimated Cost:</b>	\$6,715,666
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$100,000.00	\$100,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$20,000.00	\$20,000	1	\$5,000
			\$25,000		\$120,000		\$25,000

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$300,000
	\$300,000
Other Supplemental Work:	\$245,000.00

# Caltrans Construction Site WPC Study

EA Number: 07-0p4004

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-105-20.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Embankment Stabilization	<b>Total Bid:</b>	\$489,300	<b>Total Bid Estimate:</b>	\$657,000
Construction Start Date:	5/29/2003	End Date:	1/12/2004	<b>WPC Bid Items:</b>	\$8,000	<b>WPC Bid Items:</b>	\$12,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$1,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$85,439	<b>Other Supplemental Work:</b>	\$4,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$480,155	<b>Total Estimated Cost:</b>	\$662,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 WATER POLLUTION CONTROL - LS	1	\$3,000.00	\$3,000	\$10,000.00	\$10,000	1	\$3,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$2,000.00	\$2,000	1	\$5,000
			\$8,000		\$12,000		\$8,000

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$1,000
	\$1,000
Other Supplemental Work:	\$4,000.00

# Caltrans Construction Site WPC Study

EA Number: 07-101964

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-101-11.5/12	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway	<b>Total Bid:</b>	\$4,567,794	<b>Total Bid Estimate:</b>	\$5,041,000
Construction Start Date:	10/3/2003	End Date:	3/20/2005	<b>WPC Bid Items:</b>	\$47,000	<b>WPC Bid Items:</b>	\$115,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$55,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$176,004	<b>Other Supplemental Work:</b>	\$186,300
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$4,770,273	<b>Total Estimated Cost:</b>	\$5,282,300
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074020 WATER POLLUTION CONTROL - LS	1	\$45,000.00	\$45,000	\$100,000.00	\$100,000	1	\$45,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$2,000.00	\$2,000	\$15,000.00	\$15,000	1	\$2,000
			\$47,000		\$115,000		\$47,000

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$15,000
ADDITIONAL WATER POLLUTION CONTROL	\$10,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$30,000
	\$55,000
Other Supplemental Work:	\$186,300.00

# Caltrans Construction Site WPC Study

EA Number: 07-1150u4

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-138-69.9/83.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway Widening And Rehabilitation	<b>Total Bid:</b>	\$7,331,331	<b>Total Bid Estimate:</b>	\$8,628,000
Construction Start Date:	10/26/2000	End Date:	3/24/2003	<b>WPC Bid Items:</b>	\$40,000	<b>WPC Bid Items:</b>	\$91,600
Rainy Season:	11/01 to 04/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$310,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$597,952	<b>Other Supplemental Work:</b>	\$311,100
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$7,899,800	<b>Total Estimated Cost:</b>	\$9,249,100
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$35,000.00	\$35,000	\$64,000.00	\$64,000	1	\$35,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$27,600.00	\$27,600	1	\$5,000
			\$40,000		\$91,600		\$40,000

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL STORM WATER POLLUTION PREVENTION PLAN		\$310,000
		\$310,000

Other Supplemental Work: \$311,100.00

# Caltrans Construction Site WPC Study

EA Number: 07-117044

Project Info				Project Costs Summary			
District:	7	Location:	07-Ven-1-22.8/25.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Interchange(including Structures) Fre	<b>Total Bid:</b>	\$26,434,615	<b>Total Bid Estimate:</b>	\$30,831,562
Construction Start Date:	12/6/2000	End Date:	6/25/2004	<b>WPC Bid Items:</b>	\$223,000	<b>WPC Bid Items:</b>	\$82,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	4	<b>WPC CCOs:</b>	\$154,805	<b>WPC Supplemental Work:</b>	\$1,260,000
Water Quality Board:	3 - Central Coast			<b>Other CCOs:</b>	\$3,143,789	<b>Other Supplemental Work:</b>	\$1,160,500
Disturbed Area:	11.6 Hectares			<b>Final Pay:</b>	\$30,433,222	<b>Total Estimated Cost:</b>	\$33,252,062
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$215,000.00	\$215,000	\$68,500.00	\$68,500	1	\$215,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$8,000.00	\$8,000	\$13,500.00	\$13,500	1	\$8,000
			\$223,000		\$82,000		\$223,000

Supplemental Bid Items	
Item Description	Cost
	\$0
ADDITIONAL SWPPP REQUIREMENTS	\$1,260,000
	\$1,260,000
Other Supplemental Work:	\$1,160,500.00

# Caltrans Construction Site WPC Study

EA Number: 07-119844

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-14-R40.4/R44.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Hov Lanes	<b>Total Bid:</b>	\$4,550,718	<b>Total Bid Estimate:</b>	\$5,937,303
Construction Start Date:	1/4/2001	End Date:	8/15/2002	<b>WPC Bid Items:</b>	\$22,000	<b>WPC Bid Items:</b>	\$14,800
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$352,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$279,443	<b>Other Supplemental Work:</b>	\$110,300
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$4,718,607	<b>Total Estimated Cost:</b>	\$6,399,603
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$19,000.00	\$19,000	\$9,000.00	\$9,000	1	\$19,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$3,000.00	\$3,000	\$5,800.00	\$5,800	1	\$3,000
			\$22,000		\$14,800		\$22,000

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL PAVEMENT MISTING						\$52,000	
ADDITIONAL STORM WATER POLLUTION PREVENTION PLAN						\$300,000	
						\$352,000	
Other Supplemental Work:	\$110,300.00						

# Caltrans Construction Site WPC Study

EA Number: 07-126494

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-30-R8.6/R10.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Freeway To Be Constructed By Paving And Gra	<b>Total Bid:</b>	\$43,498,417	<b>Total Bid Estimate:</b>	\$55,583,008
Construction Start Date:	9/21/2000	End Date:	8/23/2002	<b>WPC Bid Items:</b>	\$91,000	<b>WPC Bid Items:</b>	\$415,000
Rainy Season:	11/01 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$35,727	<b>WPC Supplemental Work:</b>	\$1,500,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$2,094,036	<b>Other Supplemental Work:</b>	\$522,500
Disturbed Area:	6.2 Hectares			<b>Final Pay:</b>	\$44,868,044	<b>Total Estimated Cost:</b>	\$57,605,508
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$90,000.00	\$90,000	\$400,000.00	\$400,000	1	\$90,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$15,000.00	\$15,000	1	\$1,000
			\$91,000		\$415,000		\$91,000

Supplemental Bid Items							
Item Description	Cost						
additional storm water pollution preventive plan					\$1,500,000		
					\$1,500,000		
Other Supplemental Work:	\$522,500.00						

# Caltrans Construction Site WPC Study

EA Number: 07-166104

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-1-67.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Repair And Replace Timber Retaining Wall	<b>Total Bid:</b>	\$1,484,120	<b>Total Bid Estimate:</b>	\$1,052,000
Construction Start Date:	9/19/2002	End Date:	4/8/2003	<b>WPC Bid Items:</b>	\$136,000	<b>WPC Bid Items:</b>	\$65,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$7,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$786,306	<b>Other Supplemental Work:</b>	\$216,800
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$2,268,104	<b>Total Estimated Cost:</b>	\$1,275,800
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74029 TEMPORARY SILT FENCE - M	150	\$60.00	\$9,000	\$200.00	\$30,000	150	\$9,000
074020 WATER POLLUTION CONTROL - LS	1	\$120,000.00	\$120,000	\$25,000.00	\$25,000	1	\$120,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$7,000.00	\$7,000	\$10,000.00	\$10,000	1	\$7,000
			\$136,000		\$65,000		\$136,000

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL WATER POLLUTION CONTROL		\$7,000
		\$7,000
Other Supplemental Work:	\$216,800.00	

# Caltrans Construction Site WPC Study

EA Number: 07-172204

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-405-R32.5/35.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Ramps/connector Reconstruction	<b>Total Bid:</b>	\$2,197,241	<b>Total Bid Estimate:</b>	\$3,170,178
Construction Start Date:	11/2/2000	End Date:	5/22/2002	<b>WPC Bid Items:</b>	\$20,500	<b>WPC Bid Items:</b>	\$28,500
Rainy Season:	11/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$6,141	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$530,720	<b>Other Supplemental Work:</b>	\$159,401
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$2,912,294	<b>Total Estimated Cost:</b>	\$3,329,579
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$23,000.00	\$23,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$500.00	\$500	\$5,500.00	\$5,500	1	\$500
			\$20,500		\$28,500		\$20,500

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$159,401.00

# Caltrans Construction Site WPC Study

EA Number: 07-191004

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-405-59.6/62.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Northbound Lane	<b>Total Bid:</b>	\$5,139,078	<b>Total Bid Estimate:</b>	\$7,266,062
Construction Start Date:	10/12/2000	End Date:	3/11/2003	<b>WPC Bid Items:</b>	\$41,000	<b>WPC Bid Items:</b>	\$510,000
Rainy Season:	11/01 to 05/01	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$175,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$564,368	<b>Other Supplemental Work:</b>	\$56,200
Disturbed Area:	1.2 Hectares			<b>Final Pay:</b>	\$5,279,931	<b>Total Estimated Cost:</b>	\$7,497,262
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$35,000.00	\$35,000	\$500,000.00	\$500,000	1	\$35,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,000.00	\$6,000	\$10,000.00	\$10,000	1	\$6,000
			\$41,000		\$510,000		\$41,000

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL STORM WATER POLLUTION CONTROL						\$175,000	
						\$175,000	

Other Supplemental Work: \$56,200.00

# Caltrans Construction Site WPC Study

EA Number: 07-191304

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-101,405-27.3/27.8,62.8/63.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Nb Rte 405 To Sb Route 101 Connec	<b>Total Bid:</b>	\$5,259,369	<b>Total Bid Estimate:</b>	\$7,168,000
Construction Start Date:	4/25/2002	End Date:	6/7/2004	<b>WPC Bid Items:</b>	\$21,000	<b>WPC Bid Items:</b>	\$215,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$5,946	<b>WPC Supplemental Work:</b>	\$45,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$933,313	<b>Other Supplemental Work:</b>	\$375,600
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$6,035,011	<b>Total Estimated Cost:</b>	\$7,588,600
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$200,000.00	\$200,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$15,000.00	\$15,000	1	\$1,000
			\$21,000		\$215,000		\$21,000

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$45,000
	\$45,000

Other Supplemental Work: \$375,600.00

# Caltrans Construction Site WPC Study

EA Number: 07-192904

Project Info				Project Costs Summary			
District:	7	Location:	07-Ven-101-38.6/50.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Concrete Barrier And Highway Planting	<b>Total Bid:</b>	\$3,347,890	<b>Total Bid Estimate:</b>	\$5,015,000
Construction Start Date:	8/23/2001	End Date:	12/17/2002	<b>WPC Bid Items:</b>	\$13,000	<b>WPC Bid Items:</b>	\$202,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$1,725	<b>WPC Supplemental Work:</b>	\$24,000
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$394,047	<b>Other Supplemental Work:</b>	\$144,150
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$3,956,482	<b>Total Estimated Cost:</b>	\$5,183,150
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$8,500.00	\$8,500	\$190,000.00	\$190,000	1	\$8,500
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$4,500.00	\$4,500	\$12,000.00	\$12,000	1	\$4,500
			\$13,000		\$202,000		\$13,000

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL							\$24,000
							\$24,000
Other Supplemental Work:	\$144,150.00						

# Caltrans Construction Site WPC Study

EA Number: 07-4j3204

Project Info				Project Costs Summary			
District:	7	Location:	07-LA-5-132.0/138.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Slope Erosion Repair, Pcc Slope Paving	<b>Total Bid:</b>	\$511,266	<b>Total Bid Estimate:</b>	\$400,000
Construction Start Date:	5/29/2003	End Date:	10/20/2003	<b>WPC Bid Items:</b>	\$29,850	<b>WPC Bid Items:</b>	\$18,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	0	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$7,500
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$15,001	<b>Other Supplemental Work:</b>	\$10,000
Disturbed Area:	0.4 Hectares			<b>Final Pay:</b>	\$525,974	<b>Total Estimated Cost:</b>	\$417,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 WATER POLLUTION CONTROL - LS	1	\$16,000.00	\$16,000	\$15,000.00	\$15,000	1	\$16,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$13,850.00	\$13,850	\$3,000.00	\$3,000	1	\$13,850
			\$29,850		\$18,000		\$29,850

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL							\$7,500
							\$7,500

Other Supplemental Work: \$10,000.00

# Caltrans Construction Site WPC Study

EA Number: 07-4j3504

Project Info				Project Costs Summary			
District:	7	Location:	07-Ven-101-39.8/41.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Slope Protection Along Nb Walker Frontage Ro	<b>Total Bid:</b>	\$376,953	<b>Total Bid Estimate:</b>	\$377,000
Construction Start Date:	5/22/2003	End Date:	2/20/2004	<b>WPC Bid Items:</b>	\$35,750	<b>WPC Bid Items:</b>	\$12,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$7,500
Water Quality Board:	4 - Los Angeles			<b>Other CCOs:</b>	\$10,430	<b>Other Supplemental Work:</b>	\$4,000
Disturbed Area:	0.8 Hectares			<b>Final Pay:</b>	\$330,405	<b>Total Estimated Cost:</b>	\$388,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074020 WATER POLLUTION CONTROL - LS	1	\$31,750.00	\$31,750	\$9,000.00	\$9,000	1	\$31,750
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$4,000.00	\$4,000	\$3,000.00	\$3,000	1	\$4,000
			\$35,750		\$12,000		\$35,750

Supplemental Bid Items		
Item Description	Cost	
STORM WATER SAMPLING AND ANALYSIS	\$3,000	
ADDITIONAL WATER POLLUTION CONTROL	\$1,500	
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$3,000	
	\$7,500	
Other Supplemental Work:	\$4,000.00	

# Caltrans Construction Site WPC Study

EA Number: 08-204314

Project Info				Project Costs Summary			
District:	8	Location:	08-SBD-15-7.2/10.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Landscaping	<b>Total Bid:</b>	\$2,739,998	<b>Total Bid Estimate:</b>	\$1,843,000
Construction Start Date:	10/7/2002	End Date:	6/21/2005	<b>WPC Bid Items:</b>	\$33,000	<b>WPC Bid Items:</b>	\$15,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	3	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$2,000
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$154,457	<b>Other Supplemental Work:</b>	\$53,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$2,812,269	<b>Total Estimated Cost:</b>	\$1,898,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$27,000.00	\$27,000	\$10,000.00	\$10,000	1	\$27,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,000.00	\$6,000	\$5,000.00	\$5,000	1	\$5,100
			\$33,000		\$15,000		\$32,100

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL					\$2,000		
					\$2,000		
Other Supplemental Work:	\$53,000.00						

**Caltrans Construction Site WPC Study**

EA Number: 08-350724

Project Info				Project Costs Summary			
District:	8	Location:	08-SBd-15,40-69.2/74.1, 0.0/0.2	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Lane Addition I-15 Northbound	<b>Total Bid:</b>	\$8,383,838	<b>Total Bid Estimate:</b>	\$8,642,443
Construction Start Date:	5/24/2001	End Date:	1/30/2003	<b>WPC Bid Items:</b>	\$29,000	<b>WPC Bid Items:</b>	\$36,000
Rainy Season:	11/01 to 03/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$3,500	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$1,575,062	<b>Other Supplemental Work:</b>	\$297,100
Disturbed Area:	5.2 Hectares			<b>Final Pay:</b>	\$9,308,957	<b>Total Estimated Cost:</b>	\$8,939,543
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$14,000.00	\$14,000	\$31,500.00	\$31,500	1	\$14,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$15,000.00	\$15,000	\$4,500.00	\$4,500	1	\$15,000
			\$29,000		\$36,000		\$29,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$297,100.00

# Caltrans Construction Site WPC Study

EA Number: 08-377804

Project Info				Project Costs Summary			
District:	8	Location:	08-SBd-40-R82.1/R117.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Highway To Be Reconstructed	<b>Total Bid:</b>	\$29,727,000	<b>Total Bid Estimate:</b>	\$28,635,642
Construction Start Date:	2/22/2001	End Date:	2/25/2003	<b>WPC Bid Items:</b>	\$56,000	<b>WPC Bid Items:</b>	\$21,600
Rainy Season:	10/15 to 03/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$7,572,329	<b>Other Supplemental Work:</b>	\$108,500
Disturbed Area:	5.0 Hectares			<b>Final Pay:</b>	\$36,419,968	<b>Total Estimated Cost:</b>	\$28,744,142
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$55,000.00	\$55,000	\$18,000.00	\$18,000	1	\$55,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,000.00	\$1,000	\$3,600.00	\$3,600	1	\$1,000
			\$56,000		\$21,600		\$56,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$108,500.00

# Caltrans Construction Site WPC Study

EA Number: 08-443724

Project Info				Project Costs Summary			
District:	8	Location:	08-SBd-EASTON St.-R24.8/R27.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Frontage Road	<b>Total Bid:</b>	\$1,439,847	<b>Total Bid Estimate:</b>	\$2,021,000
Construction Start Date:	7/25/2002	End Date:	1/14/2003	<b>WPC Bid Items:</b>	\$10,000	<b>WPC Bid Items:</b>	\$54,713
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$7,000
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$9,502	<b>Other Supplemental Work:</b>	\$31,620
Disturbed Area:	4.2 Hectares			<b>Final Pay:</b>	\$1,363,199	<b>Total Estimated Cost:</b>	\$2,059,620
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$5,000.00	\$5,000	\$49,712.50	\$49,713	1	\$5,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$5,000.00	\$5,000	1	\$5,000
			\$10,000		\$54,713		\$10,000

Supplemental Bid Items	
Item Description	Cost
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$7,000
	\$7,000

Other Supplemental Work: \$31,620.00

# Caltrans Construction Site WPC Study

EA Number: 09-213114

Project Info				Project Costs Summary			
District:	9	Location:	09-Mno-395-71.6/82.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Highway to be widened	<b>Total Bid:</b>	\$17,723,654	<b>Total Bid Estimate:</b>	\$19,421,000
Construction Start Date:	4/10/2000	End Date:	8/4/2003	<b>WPC Bid Items:</b>	\$101,780	<b>WPC Bid Items:</b>	\$42,200
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$97,262	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	6 - Lahontan			<b>Other CCOs:</b>	\$1,708,074	<b>Other Supplemental Work:</b>	\$470,930
Disturbed Area:	66.7 Hectares			<b>Final Pay:</b>	\$19,488,394	<b>Total Estimated Cost:</b>	\$19,891,930
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74029 TEMPORARY SILT FENCE - M	1240	\$9.50	\$11,780	\$5.00	\$6,200	1240	\$11,780
74020 WATER POLLUTION CONTROL - LS	1	\$80,000.00	\$80,000	\$30,000.00	\$30,000	1	\$80,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$10,000.00	\$10,000	\$6,000.00	\$6,000	1	\$10,000
			\$101,780		\$42,200		\$101,780

Supplemental Bid Items	
Item Description	Cost

Other Supplemental Work: \$470,930.00

**Caltrans Construction Site WPC Study**

EA Number: 09-214114

Project Info				Project Costs Summary			
District:	9	Location:	09-Iny-395-146.3/160.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Highway to be Widened	<b>Total Bid:</b>	\$17,010,320	<b>Total Bid Estimate:</b>	\$15,292,080
Construction Start Date:	3/19/2001	End Date:	9/25/2002	<b>WPC Bid Items:</b>	\$75,000	<b>WPC Bid Items:</b>	\$45,000
Rainy Season:	10/15 to 03/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$163,903	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	6 - Lahontan			<b>Other CCOs:</b>	\$1,225,584	<b>Other Supplemental Work:</b>	\$593,000
Disturbed Area:	66.7 Hectares			<b>Final Pay:</b>	\$18,495,828	<b>Total Estimated Cost:</b>	\$15,885,080
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$50,000.00	\$50,000	\$40,000.00	\$40,000	1	\$50,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$25,000.00	\$25,000	\$5,000.00	\$5,000	1	\$25,000
			\$75,000		\$45,000		\$75,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$593,000.00

# Caltrans Construction Site WPC Study

EA Number: 10-1a46u4

Project Info				Project Costs Summary			
District:	10	Location:	10-Mer-140-57.6/59.7	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Highway Pavement To Be Rehabilitated And Int	<b>Total Bid:</b>	\$2,713,214	<b>Total Bid Estimate:</b>	\$3,153,000
Construction Start Date:	3/20/2001	End Date:	2/4/2002	<b>WPC Bid Items:</b>	\$47,000	<b>WPC Bid Items:</b>	\$15,000
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$1,500	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$421,078	<b>Other Supplemental Work:</b>	\$161,900
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$2,475,212	<b>Total Estimated Cost:</b>	\$3,314,900
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$25,000.00	\$25,000	\$10,000.00	\$10,000	1	\$25,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$22,000.00	\$22,000	\$5,000.00	\$5,000	1	\$22,000
			\$47,000		\$15,000		\$47,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$161,900.00

**Caltrans Construction Site WPC Study**

EA Number: 10-482304

Project Info				Project Costs Summary			
District:	10	Location:	10-Mer-59,99,140-23.9,24.4/26.0,57.	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Ramps Realignment And Interchange Improve	<b>Total Bid:</b>	\$4,373,304	<b>Total Bid Estimate:</b>	\$4,832,435
Construction Start Date:	2/27/2001	End Date:	11/21/2003	<b>WPC Bid Items:</b>	\$41,700	<b>WPC Bid Items:</b>	\$24,750
Rainy Season:	10/15 to 04/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$13,260	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$1,071,550	<b>Other Supplemental Work:</b>	\$189,750
Disturbed Area:	1.8 Hectares			<b>Final Pay:</b>	\$5,818,180	<b>Total Estimated Cost:</b>	\$5,022,185
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$35,000.00	\$35,000	\$22,500.00	\$22,500	1	\$35,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,700.00	\$6,700	\$2,250.00	\$2,250	1	\$6,700
			\$41,700		\$24,750		\$41,700

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$189,750.00

**Caltrans Construction Site WPC Study**

EA Number: 10-499504

Project Info				Project Costs Summary			
District:	10	Location:	10-Sta-99-R 21.2/R 26.3	<u>Contractor</u>		<u>Engineer</u>	
Project Type:	Landscaping	Description:	Highway Planting And Irrigation	<b>Total Bid:</b>	\$575,854	<b>Total Bid Estimate:</b>	\$637,000
Construction Start Date:	7/19/2000	End Date:	5/6/2002	<b>WPC Bid Items:</b>	\$6,000	<b>WPC Bid Items:</b>	\$11,500
Rainy Season:	11/1 to 3/15	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	5 - Central Valley			<b>Other CCOs:</b>	\$36,438	<b>Other Supplemental Work:</b>	\$70,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$607,392	<b>Total Estimated Cost:</b>	\$707,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation and maintenance-Lump Sum, Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$3,000.00	\$3,000	\$10,000.00	\$10,000	1	\$3,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$3,000.00	\$3,000	\$1,500.00	\$1,500	1	\$3,000
			\$6,000		\$11,500		\$6,000

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$70,000.00

# Caltrans Construction Site WPC Study

EA Number: 11-065204

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-5-R38.8/R41.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Northbound Auxiliary Lane	<b>Total Bid:</b>	\$2,837,420	<b>Total Bid Estimate:</b>	\$3,922,000
Construction Start Date:	4/11/2002	End Date:	6/21/2004	<b>WPC Bid Items:</b>	\$116,900	<b>WPC Bid Items:</b>	\$150,250
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$447	<b>WPC Supplemental Work:</b>	\$30,000
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$295,420	<b>Other Supplemental Work:</b>	\$187,620
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$3,133,298	<b>Total Estimated Cost:</b>	\$4,139,620
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	7						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
23403 TEMPORARY CONSTRUCTION ENTRANCE - EA	5	\$6,000.00	\$30,000	\$4,000.00	\$20,000	5	\$6,000
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	5	\$2,200.00	\$11,000	\$1,600.00	\$8,000	5	\$11,000
23401 TEMPORARY GRAVEL BAG - EA	370	\$14.00	\$5,180	\$15.00	\$5,550	240	\$3,360
74023 TEMPORARY EROSION CONTROL - M2	14600	\$0.70	\$10,220	\$2.00	\$29,200	14062.4	\$9,844
74028 TEMPORARY FIBER ROLL - M	3300	\$10.00	\$33,000	\$15.00	\$49,500	3333.5	\$33,335
74020 WATER POLLUTION CONTROL - LS	1	\$25,000.00	\$25,000	\$30,000.00	\$30,000	1	\$25,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,500.00	\$2,500	\$8,000.00	\$8,000	1	\$2,500
			\$116,900		\$150,250		\$91,039

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL WATER POLLUTION CONTROL	\$5,000	
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$25,000	
	\$30,000	
Other Supplemental Work:	\$187,620.00	

# Caltrans Construction Site WPC Study

EA Number: 11-066104

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-805,252-15.6/20.9, T1.6/2.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Replace Planting & Upgrade Irrigation System	<b>Total Bid:</b>	\$2,136,878	<b>Total Bid Estimate:</b>	\$2,225,300
Construction Start Date:	3/15/2001	End Date:	7/21/2004	<b>WPC Bid Items:</b>	\$74,451	<b>WPC Bid Items:</b>	\$69,590
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	3	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$77,071	<b>Other Supplemental Work:</b>	\$68,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$2,165,513	<b>Total Estimated Cost:</b>	\$2,293,300
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	6						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
20517 TEMPORARY CONSTRUCTION ENTRANCE - EA	3	\$2,239.00	\$6,717	\$3,000.00	\$9,000	1	\$2,239
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	2	\$2,437.00	\$4,874	\$2,000.00	\$4,000	2	\$4,874
20515 TEMPORARY GRAVEL BAG - EA	550	\$1.65	\$908	\$7.00	\$3,850	405	\$668
74029 TEMPORARY SILT FENCE - M	6290	\$2.25	\$14,153	\$6.00	\$37,740	6499.2	\$14,623
74020 WATER POLLUTION CONTROL - LS	1	\$41,300.00	\$41,300	\$10,000.00	\$10,000	1	\$41,300
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,500.00	\$6,500	\$5,000.00	\$5,000	1	\$6,500
			\$74,451		\$69,590		\$70,204

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$68,000.00

# Caltrans Construction Site WPC Study

EA Number: 11-073404

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-15-M32.3/M34.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Construct Lane Addition N/b & S/b	<b>Total Bid:</b>	\$4,222,222	<b>Total Bid Estimate:</b>	\$5,690,849
Construction Start Date:	9/20/2001	End Date:	6/12/2003	<b>WPC Bid Items:</b>	\$178,600	<b>WPC Bid Items:</b>	\$158,265
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$8,167	<b>WPC Supplemental Work:</b>	\$20,000
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$838,812	<b>Other Supplemental Work:</b>	\$436,400
Disturbed Area:	0.8 Hectares			<b>Final Pay:</b>	\$4,991,880	<b>Total Estimated Cost:</b>	\$6,147,249
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	8						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
074032 Temporary Concrete Washout Facility - EA	4	\$500.00	\$2,000	\$1,350.00	\$5,400	12	\$6,000
21994 TEMPORARY CONSTRUCTION ENTRANCE - EA	10	\$7,500.00	\$75,000	\$720.00	\$7,200	11	\$82,500
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	14	\$500.00	\$7,000	\$900.00	\$12,600	5	\$2,500
21991 TEMPORARY GRAVEL BAG - EA	450	\$5.00	\$2,250	\$4.00	\$1,800	2200	\$11,000
74028 TEMPORARY FIBER ROLL - M	4280	\$15.00	\$64,200	\$18.00	\$77,040	5063	\$75,945
74023 TEMPORARY EROSION CONTROL - M2	10500	\$0.30	\$3,150	\$0.45	\$4,725	19542	\$5,863
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$45,000.00	\$45,000	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$4,500.00	\$4,500	1	\$5,000
			\$178,600		\$158,265		\$208,808

Supplemental Bid Items		
Item Description	Cost	
STORM WATER MAINTENANCE		\$20,000
		\$20,000
Other Supplemental Work:	\$436,400.00	

# Caltrans Construction Site WPC Study

EA Number: 11-172824

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-56-1.8/6.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway	<b>Total Bid:</b>	\$41,087,083	<b>Total Bid Estimate:</b>	\$60,058,000
Construction Start Date:	8/1/2002	End Date:	11/22/2004	<b>WPC Bid Items:</b>	\$2,068,648	<b>WPC Bid Items:</b>	\$2,515,500
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$443,084	<b>WPC Supplemental Work:</b>	\$1,200,000
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$6,438,433	<b>Other Supplemental Work:</b>	\$4,391,300
Disturbed Area:	16.0 Hectares			<b>Final Pay:</b>	\$47,855,020	<b>Total Estimated Cost:</b>	\$65,649,300
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	8						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
23802 TEMPORARY DESILTING BASIN - EA	6	\$26,000.00	\$156,000	\$15,000.00	\$90,000	6	\$156,000
23801 TEMPORARY CONSTRUCTION ENTRANCE - EA	24	\$2,900.00	\$69,600	\$2,000.00	\$48,000	12.25	\$35,525
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	23	\$1,100.00	\$25,300	\$500.00	\$11,500	15	\$16,500
23799 TEMPORARY GRAVEL BAG - EA	13000	\$10.00	\$130,000	\$3.00	\$39,000	7873	\$78,730
74023 TEMPORARY EROSION CONTROL - HA	99	\$6,852.00	\$678,348	\$10,000.00	\$990,000	0.46	\$3,152
74023 TEMPORARY EROSION CONTROL - HA	200	\$4,112.00	\$822,400	\$6,000.00	\$1,200,000	39.568	\$162,704
74020 WATER POLLUTION CONTROL - LS	1	\$185,000.00	\$185,000	\$125,000.00	\$125,000	1	\$185,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$2,000.00	\$2,000	\$12,000.00	\$12,000	1	\$2,000
			\$2,068,648		\$2,515,500		\$639,611

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$700,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$500,000
	\$1,200,000

Other Supplemental Work: \$4,391,300.00

# Caltrans Construction Site WPC Study

EA Number: 11-199344

Project Info				Project Costs Summary			
District:	11	Location:	11-Imp-111-R20.7/R28.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Const 4-lane Expressway (stage 1, Unit 2)	<b>Total Bid:</b>	\$16,256,047	<b>Total Bid Estimate:</b>	\$17,162,282
Construction Start Date:	7/19/2001	End Date:	4/5/2004	<b>WPC Bid Items:</b>	\$65,700	<b>WPC Bid Items:</b>	\$370,234
Rainy Season:	11/01 to 05/01	# of Rainy Seasons:	3	<b>WPC CCOs:</b>	\$2,310	<b>WPC Supplemental Work:</b>	\$14,250
Water Quality Board:	7 - Colorado River Basin			<b>Other CCOs:</b>	\$1,974,805	<b>Other Supplemental Work:</b>	\$541,200
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$17,678,325	<b>Total Estimated Cost:</b>	\$17,717,732
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

## Project WPC Costs

Item Description	Bid Items						Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total			
21391 TEMPORARY CONSTRUCTION ENTRANCE - EA	16	\$2,000.00	\$32,000	\$2,700.00	\$43,200	10	\$20,000	
74032 TEMPORARY CONCRETE WASHOUT FACILITY - EA	6	\$250.00	\$1,500	\$3,600.00	\$21,600	6	\$1,500	
21389 TEMPORARY GRAVEL BAG - EA	720	\$10.00	\$7,200	\$3.38	\$2,434	1026	\$10,260	
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$285,000.00	\$285,000	1	\$20,000	
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$18,000.00	\$18,000	1	\$5,000	
			\$65,700		\$370,234		\$56,760	

Supplemental Bid Items	
Item Description	Cost
ADDITIONAL WATER POLLUTION CONTROL	\$14,250
	\$14,250

Other Supplemental Work: \$541,200.00

# Caltrans Construction Site WPC Study

EA Number: 11-199364

Project Info				Project Costs Summary			
District:	11	Location:	11-IMP-111-13.0/22.1	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway	<b>Total Bid:</b>	\$12,307,614	<b>Total Bid Estimate:</b>	\$15,753,000
Construction Start Date:	5/19/2003	End Date:	1/12/2005	<b>WPC Bid Items:</b>	\$87,700	<b>WPC Bid Items:</b>	\$213,080
Rainy Season:	11/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$190,000
Water Quality Board:	7 - Colorado River Basin			<b>Other CCOs:</b>	\$875,851	<b>Other Supplemental Work:</b>	\$411,200
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$13,223,965	<b>Total Estimated Cost:</b>	\$16,354,200
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

## Project WPC Costs

Item Description	Bid Items						Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total			
30843 TEMPORARY CONSTRUCTION ENTRANCE - EA	15	\$2,200.00	\$33,000	\$1,800.00	\$27,000		8	\$17,600
30842 TEMPORARY GRAVEL BAG - EA	720	\$10.00	\$7,200	\$14.00	\$10,080		388	\$3,880
074032 Temporary Concrete Washout Facility - EA	9	\$3,000.00	\$27,000	\$3,000.00	\$27,000		5	\$15,000
074020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$140,000.00	\$140,000		1	\$20,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$500.00	\$500	\$9,000.00	\$9,000		1	\$500
			\$87,700		\$213,080			\$56,980

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$30,000
ADDITIONAL WATER POLLUTION CONTROL	\$140,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$20,000
	\$190,000

Other Supplemental Work: \$411,200.00

# Caltrans Construction Site WPC Study

EA Number: 11-1993u4

Project Info				Project Costs Summary			
District:	11	Location:	11-Imp-111-R12.9/R20.8	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Existing 2-lane Highway To Be Widened To A 4	<b>Total Bid:</b>	\$15,658,786	<b>Total Bid Estimate:</b>	\$16,628,620
Construction Start Date:	8/24/2000	End Date:	9/5/2002	<b>WPC Bid Items:</b>	\$158,700	<b>WPC Bid Items:</b>	\$271,425
Rainy Season:	11/01 to 03/30	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$66,453	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$304,605	<b>Other Supplemental Work:</b>	\$316,700
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$16,412,741	<b>Total Estimated Cost:</b>	\$16,945,320
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
18387 TEMPORARY CONSTRUCTION ENTRANCE - EA	6	\$15,000.00	\$90,000	\$800.00	\$4,800	6	\$90,000
18386 TEMPORARY CONCRETE WASHOUT - EA	5	\$1,500.00	\$7,500	\$500.00	\$2,500	4	\$6,000
18385 TEMPORARY GRAVEL BAG - EA	1100	\$20.00	\$22,000	\$3.75	\$4,125	0	\$0
74020 WATER POLLUTION CONTROL - LS	1	\$33,000.00	\$33,000	\$250,000.00	\$250,000	1	\$33,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,200.00	\$6,200	\$10,000.00	\$10,000	1	\$6,200
			\$158,700		\$271,425		\$135,200

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$316,700.00

# Caltrans Construction Site WPC Study

EA Number: 11-224404

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-805-36.5/43.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Erosion Control, Highway Planting, And Irrigatio	<b>Total Bid:</b>	\$1,335,435	<b>Total Bid Estimate:</b>	\$1,221,400
Construction Start Date:	6/1/2000	End Date:	6/15/2004	<b>WPC Bid Items:</b>	\$50,500	<b>WPC Bid Items:</b>	\$86,200
Rainy Season:	11/1 to 3/30	# of Rainy Seasons:	4	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	(\$594)	<b>Other Supplemental Work:</b>	\$61,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,260,696	<b>Total Estimated Cost:</b>	\$1,282,400
Form of SWPPP Billing:	Plan-Lump Sum, Implementation and maintenance-Lump Sum, Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	5						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
17971 TEMPORARY CONSTRUCTION ENTRANCE - EA	3	\$2,500.00	\$7,500	\$3,000.00	\$9,000	3	\$7,500
74029 TEMPORARY SILT FENCE - M	2300	\$6.00	\$13,800	\$15.00	\$34,500	2189	\$13,137
74028 TEMPORARY FIBER ROLL - M	1600	\$12.00	\$19,200	\$10.00	\$16,000	1712	\$20,544
74020 WATER POLLUTION CONTROL - LS	1	\$5,000.00	\$5,000	\$20,000.00	\$20,000	1	\$5,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$5,000.00	\$5,000	\$6,699.80	\$6,700	1	\$5,000
			\$50,500		\$86,200		\$51,181

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$61,000.00

# Caltrans Construction Site WPC Study

EA Number: 11-230904

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-8,15-11.4/12.7,R10.9/R13.2	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Erosion Control	<b>Total Bid:</b>	\$397,974	<b>Total Bid Estimate:</b>	\$538,802
Construction Start Date:	6/1/2000	End Date:	12/4/2001	<b>WPC Bid Items:</b>	\$13,620	<b>WPC Bid Items:</b>	\$26,400
Rainy Season:	11/01 to 03/30	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$1,250	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$144,227	<b>Other Supplemental Work:</b>	\$48,000
Disturbed Area:	1.1 Hectares			<b>Final Pay:</b>	\$475,862	<b>Total Estimated Cost:</b>	\$586,802
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	4						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
17963 TEMPORARY CONCRETE WASHOUT - EA	1	\$2,500.00	\$2,500	\$2,500.00	\$2,500	1	\$2,500
74029 TEMPORARY SILT FENCE - M	890	\$8.00	\$7,120	\$10.00	\$8,900	865.5	\$6,924
74020 WATER POLLUTION CONTROL - LS	1	\$2,500.00	\$2,500	\$10,000.00	\$10,000	1	\$2,500
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,500.00	\$1,500	\$5,000.00	\$5,000	1	\$1,500
			\$13,620		\$26,400		\$13,424

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$48,000.00

# Caltrans Construction Site WPC Study

EA Number: 11-234714

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-15-8.7/9.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Highway Planting	<b>Total Bid:</b>	\$1,732,522	<b>Total Bid Estimate:</b>	\$1,891,000
Construction Start Date:	8/30/2001	End Date:	5/14/2003	<b>WPC Bid Items:</b>	\$23,927	<b>WPC Bid Items:</b>	\$21,828
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$4,000
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$190,060	<b>Other Supplemental Work:</b>	\$22,100
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,919,513	<b>Total Estimated Cost:</b>	\$1,917,100
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	7						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
21918 TEMPORARY CONSTRUCTION ENTRANCE - EA	1	\$6,400.00	\$6,400	\$3,450.00	\$3,450	1	\$6,400
21917 TEMPORARY CONCRETE WASHOUT - EA	1	\$1,400.00	\$1,400	\$1,600.00	\$1,600	1	\$1,400
21916 TEMPORARY GRAVEL BAG - EA	69	\$2.00	\$138	\$6.20	\$428	120.235	\$240
74029 TEMPORARY SILT FENCE - M	140	\$7.60	\$1,064	\$15.00	\$2,100	33.8	\$257
74028 TEMPORARY FIBER ROLL - M	150	\$19.50	\$2,925	\$15.00	\$2,250	20.69	\$403
74020 WATER POLLUTION CONTROL - LS	1	\$7,800.00	\$7,800	\$7,000.00	\$7,000	1	\$7,800
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$4,200.00	\$4,200	\$5,000.00	\$5,000	1	\$4,200
			\$23,927		\$21,828		\$20,701

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL STORM WATER POLLUTION PREVENTION		\$4,000
		\$4,000

Other Supplemental Work: \$22,100.00

# Caltrans Construction Site WPC Study

EA Number: 11-234724

Project Info				Project Costs Summary			
District:	11	Location:	11-SD-15-R6.4/R9.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Replacement Planting	<b>Total Bid:</b>	\$414,854	<b>Total Bid Estimate:</b>	\$450,000
Construction Start Date:	12/5/2002	End Date:	1/23/2004	<b>WPC Bid Items:</b>	\$19,500	<b>WPC Bid Items:</b>	\$17,903
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$0	<b>WPC Supplemental Work:</b>	\$7,000
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$8,089	<b>Other Supplemental Work:</b>	\$52,000
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$409,234	<b>Total Estimated Cost:</b>	\$509,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	4						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
030234 TEMPORARY CONCRETE WASHOUT (PORTABLE) - LS	1	\$1,500.00	\$1,500	\$1,400.00	\$1,400	1	\$1,500
074028 TEMPORARY FIBER ROLL - M	250	\$12.00	\$3,000	\$18.00	\$4,500	135.5	\$1,626
074020 WATER POLLUTION CONTROL - LS	1	\$10,000.00	\$10,000	\$7,003.00	\$7,003	1	\$10,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$5,000.00	\$5,000	1	\$5,000
			\$19,500		\$17,903		\$18,126

Supplemental Bid Items		
Item Description	Cost	
ADDITIONAL WATER POLLUTION CONTROL		\$5,000
WATER POLLUTION CONTROL MAINTENANCE SHARING		\$2,000
		\$7,000

Other Supplemental Work: \$52,000.00

# Caltrans Construction Site WPC Study

EA Number: 12-0008E4

Project Info				Project Costs Summary			
District:	12	Location:	12-ORA-73-5.4/7.8	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway	<b>Total Bid:</b>	\$8,975,099	<b>Total Bid Estimate:</b>	\$9,793,000
Construction Start Date:	5/23/2002	End Date:	9/10/2004	<b>WPC Bid Items:</b>	\$82,600	<b>WPC Bid Items:</b>	\$117,500
Rainy Season:	10/01 to 04/30	# of Rainy Seasons:	2	<b>WPC CCOs:</b>	\$1,242	<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$354,212	<b>Other Supplemental Work:</b>	\$353,040
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$9,649,156	<b>Total Estimated Cost:</b>	\$10,146,040
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
23526 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,000.00	\$5,000	\$4,500.00	\$4,500	1	\$5,000
74026 TEMPORARY MULCH - M3	1260	\$10.00	\$12,600	\$50.00	\$63,000	1260	\$12,600
74020 WATER POLLUTION CONTROL - LS	1	\$65,000.00	\$65,000	\$50,000.00	\$50,000	1	\$65,000
			\$82,600		\$117,500		\$82,600

## Supplemental Bid Items

Item Description	Cost
Other Supplemental Work:	\$353,040.00

# Caltrans Construction Site WPC Study

EA Number: 12-0408a4

Project Info				Project Costs Summary			
District:	12	Location:	12-Ora-22-R1.0/R1.6	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Construct Retaining Wall And Soundwall	<b>Total Bid:</b>	\$1,333,782	<b>Total Bid Estimate:</b>	\$1,466,000
Construction Start Date:	8/23/2001	End Date:	2/25/2003	<b>WPC Bid Items:</b>	\$18,000	<b>WPC Bid Items:</b>	\$31,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$7,000
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$45,803	<b>Other Supplemental Work:</b>	\$45,500
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,368,369	<b>Total Estimated Cost:</b>	\$1,518,500
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$12,000.00	\$12,000	\$25,000.00	\$25,000	1	\$12,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$6,000.00	\$6,000	\$6,000.00	\$6,000	1	\$6,000
			\$18,000		\$31,000		\$18,000

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL STORM WATER POLLUTION PREVENTION							\$7,000
							\$7,000

Other Supplemental Work: \$45,500.00

# Caltrans Construction Site WPC Study

EA Number: 12-0408e4

Project Info				Project Costs Summary			
District:	12	Location:	12-Ora-22-R1.8/R3.9	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Structure	Description:	Construct Retaining Walls And Soundwalls	<b>Total Bid:</b>	\$3,744,797	<b>Total Bid Estimate:</b>	\$5,807,245
Construction Start Date:	6/21/2001	End Date:	12/18/2002	<b>WPC Bid Items:</b>	\$6,500	<b>WPC Bid Items:</b>	\$55,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$16,000
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$135,721	<b>Other Supplemental Work:</b>	\$150,200
Disturbed Area:	2.4 Hectares			<b>Final Pay:</b>	\$3,860,422	<b>Total Estimated Cost:</b>	\$5,973,445
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$5,000.00	\$5,000	\$50,000.00	\$50,000	1	\$5,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,500.00	\$1,500	\$5,000.00	\$5,000	1	\$1,500
			\$6,500		\$55,000		\$6,500

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL STORM WATER PREVENTION						\$16,000	
						\$16,000	
Other Supplemental Work:	\$150,200.00						

# Caltrans Construction Site WPC Study

EA Number: 12-084204

Project Info				Project Costs Summary			
District:	12	Location:	12-Ora-405-25.5/34.8	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Landscaping	Description:	Replacement Planting And Irrigation	<b>Total Bid:</b>	\$1,330,102	<b>Total Bid Estimate:</b>	\$1,387,000
Construction Start Date:	8/23/2001	End Date:	10/23/2003	<b>WPC Bid Items:</b>	\$24,200	<b>WPC Bid Items:</b>	\$50,858
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$5,000
Water Quality Board:	8 - Santa Ana			<b>Other CCOs:</b>	\$127,135	<b>Other Supplemental Work:</b>	\$55,200
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,408,970	<b>Total Estimated Cost:</b>	\$1,447,200
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74020 WATER POLLUTION CONTROL - LS	1	\$20,000.00	\$20,000	\$43,857.80	\$43,858	1	\$20,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$4,200.00	\$4,200	\$7,000.00	\$7,000	1	\$4,200
			\$24,200		\$50,858		\$24,200

Supplemental Bid Items							
Item Description	Cost						
ADDITIONAL WATER POLLUTION CONTROL					\$5,000		
					\$5,000		

Other Supplemental Work: \$55,200.00

# Caltrans Construction Site WPC Study

EA Number: 12-087704

Project Info				Project Costs Summary			
District:	12	Location:	12-Ora-5-22.8/24.5	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Existing Highway, Bridge And On- And Off-ramp	<b>Total Bid:</b>	\$4,028,405	<b>Total Bid Estimate:</b>	\$4,260,160
Construction Start Date:	10/20/2000	End Date:	5/13/2003	<b>WPC Bid Items:</b>	\$49,400	<b>WPC Bid Items:</b>	\$118,950
Rainy Season:	10/01 to 04/30	# of Rainy Seasons:	3	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$122,964	<b>Other Supplemental Work:</b>	\$104,204
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$4,116,450	<b>Total Estimated Cost:</b>	\$4,364,364
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	3						

## Project WPC Costs

Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
74026 TEMPORARY MULCH - HA	2.8	\$10,500.00	\$29,400	\$5,000.00	\$14,000	2.8	\$29,400
74020 WATER POLLUTION CONTROL - LS	1	\$18,500.00	\$18,500	\$100,000.00	\$100,000	1	\$18,500
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$1,500.00	\$1,500	\$4,949.90	\$4,950	1	\$1,500
			\$49,400		\$118,950		\$49,400

## Supplemental Bid Items

Item Description	Cost
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Other Supplemental Work: \$104,204.00

# Caltrans Construction Site WPC Study

EA Number: 12-097904

Project Info				Project Costs Summary			
District:	12	Location:	12-ORA-5-/30.3	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Roadway	Description:	Roadway	<b>Total Bid:</b>	\$1,626,786	<b>Total Bid Estimate:</b>	\$1,938,000
Construction Start Date:	8/12/2003	End Date:	1/14/2005	<b>WPC Bid Items:</b>	\$66,188	<b>WPC Bid Items:</b>	\$96,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$21,000
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$98,624	<b>Other Supplemental Work:</b>	\$63,200
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,760,185	<b>Total Estimated Cost:</b>	\$2,022,200
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items						
	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 WATER POLLUTION CONTROL - LS	1	\$60,313.00	\$60,313	\$92,500.00	\$92,500	1	\$60,313
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$5,875.00	\$5,875	\$3,500.00	\$3,500	0.75	\$4,406
			\$66,188		\$96,000		\$64,719

Supplemental Bid Items	
Item Description	Cost
STORM WATER SAMPLING AND ANALYSIS	\$5,000
ADDITIONAL WATER POLLUTION CONTROL	\$7,000
WATER POLLUTION CONTROL MAINTENANCE SHARING	\$9,000
	\$21,000
Other Supplemental Work:	\$63,200.00

# Caltrans Construction Site WPC Study

EA Number: 12-0a2004

Project Info				Project Costs Summary			
District:	12	Location:	12-Ora-605-4.3/5.0	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Safety Improvement	<b>Total Bid:</b>	\$1,131,979	<b>Total Bid Estimate:</b>	\$1,687,000
Construction Start Date:	6/6/2002	End Date:	4/21/2004	<b>WPC Bid Items:</b>	\$18,500	<b>WPC Bid Items:</b>	\$96,000
Rainy Season:	10/01 to 04/01	# of Rainy Seasons:	2	<b>WPC CCOs:</b>		<b>WPC Supplemental Work:</b>	\$0
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$31,781	<b>Other Supplemental Work:</b>	\$30,700
Disturbed Area:	0.0 Hectares			<b>Final Pay:</b>	\$1,227,843	<b>Total Estimated Cost:</b>	\$1,717,700
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Item Description	Bid Items			Eng Est Cost	Eng Est Total	Final Qty	Final Payment
	Bid Qty	Bid Cost	Bid Total				
74020 WATER POLLUTION CONTROL - LS	1	\$15,000.00	\$15,000	\$90,000.00	\$90,000	1	\$15,000
74019 PREPARE STORM WATER POLLUTION PREVENTION PLAN - LS	1	\$3,500.00	\$3,500	\$6,000.00	\$6,000	1	\$3,500
			\$18,500		\$96,000		\$18,500

Supplemental Bid Items	
Item Description	Cost
Other Supplemental Work:	\$30,700.00

# Caltrans Construction Site WPC Study

EA Number: 12-Of3804

Project Info				Project Costs Summary			
District:	12	Location:	12-Ora-73-18.6/20.4	<b>Contractor</b>		<b>Engineer</b>	
Project Type:	Other	Description:	Repair Slope Erosion And Modify Drain System	<b>Total Bid:</b>	\$303,300	<b>Total Bid Estimate:</b>	\$410,000
Construction Start Date:	5/29/2003	End Date:	4/20/2004	<b>WPC Bid Items:</b>	\$4,000	<b>WPC Bid Items:</b>	\$18,000
Rainy Season:	10/01 to 05/01	# of Rainy Seasons:	1	<b>WPC CCOs:</b>	\$5,097	<b>WPC Supplemental Work:</b>	\$6,500
Water Quality Board:	9 - San Diego			<b>Other CCOs:</b>	\$31	<b>Other Supplemental Work:</b>	\$23,500
Disturbed Area:	1.3 Hectares			<b>Final Pay:</b>	\$291,832	<b>Total Estimated Cost:</b>	\$440,000
Form of SWPPP Billing:	Plan-Lump Sum, Implementation-Lump Sum, Maintenance-Shared Force Account and Sampling-Force Account			CCO = Contract Change Order			
# of WPC Bid Items:	2						

Project WPC Costs							
Bid Items							
Item Description	Bid Qty	Bid Cost	Bid Total	Eng Est Cost	Eng Est Total	Final Qty	Final Payment
074020 WATER POLLUTION CONTROL - LS	1	\$3,000.00	\$3,000	\$10,000.00	\$10,000	1	\$3,000
074019 Prepare Storm Water Pollution Prevention Plan - LS	1	\$1,000.00	\$1,000	\$8,000.00	\$8,000	1	\$1,000
			\$4,000		\$18,000		\$4,000

Supplemental Bid Items							
Item Description	Cost						
STORM WATER SAMPLING AND ANALYSIS							\$5,000
ADDITIONAL WATER POLLUTION CONTROL							\$500
WATER POLLUTION CONTROL MAINTENANCE SHARING							\$1,000
							\$6,500
Other Supplemental Work:	\$23,500.00						