

**Walnut and Grayson Creeks Levee Rehabilitation
At CCCSD Treatment Plant Project
Contra Costa County Flood Control and Water Conservation District**

Attachment 4

Budget



Table 5 – Project Budget

Proposal Title: Walnut and Grayson Creeks Levee Rehabilitation at CCCSD Treatment Plant Project

Project Title: Walnut and Grayson Creeks Levee Rehabilitation at CCCSD Treatment Plant Project

| Category | | (a) Requested Grant Amount | (b) Cost Share: Non-State Fund Source* (Funding Match) | (c) Cost Share: Other State Fund Source* | (d) Total Cost |
|----------|--|-------------------------------|--|---|---------------------|
| (a) | Direct Project Administration Costs (Task 7, Project Management) | \$ 39,589 | \$ 39,589 | \$ - | \$ 79,178 |
| (b) | Land Purchase/Easement (Task 3, Real Property Acquisition) | \$ 28,991 | \$ 28,991 | \$ - | \$ 57,982 |
| (c) | Planning/Design/Engineering/ Environmental Documentation (Task 1,Preliminary Design and Risk and Uncertainty Analysis, Task 2.1, CEQA, Task 4, Design) | \$ 184,749 | \$ 184,749 | \$ - | \$ 369,497 |
| (d) | Construction/Implementation (Task 5.5, Construction Contract) | \$ 574,558 | \$ 574,558 | \$ - | \$ 1,149,116 |
| (e) | Environmental Compliance/ Mitigation/Enhancement (Task 2.2, Permits) | \$ 17,514 | \$ 17,514 | \$ - | \$ 35,028 |
| (f) | Construction Administration (Task 5, Construction Engineering, excluding Construction Contract and Contingency) | \$ 135,041 | \$ 135,041 | \$ - | \$ 270,082 |
| (g) | Other Costs (Task 6, Reporting) | \$ 1,968 | \$ 1,968 | \$ - | \$ 3,935 |
| (h) | Construction/Implementation Contingency (20%) | \$ 114,911 | \$ 114,911 | \$ - | \$ 229,823 |
| (i) | Grand Total (Sum rows (a) through (h) for each column) | \$ 1,097,321 | \$ 1,097,321 | \$ - | \$ 2,194,641 |

***List sources of funding:** *Use as much space as required*

Local funding sources are the Contra Costa County Flood Control and Water Conservation District Zone 3B Ad valorem tax revenue and Central Contra Costa Sanitary District Capital Project fund.

Table 6 – Summary Budget

Proposal Title: Walnut and Grayson Creeks Levee Rehabilitation at CCCSD Treatment Plant Project

| Individual Project Title | | Requested Grant Amount | Cost Share: Non-State Fund Source* (Funding Match) | Cost Share: Other State Fund Source* | Total Cost | % Funding Match (col. b/col. d) |
|--------------------------|---|------------------------|--|--------------------------------------|--------------|---------------------------------|
| (a) | Project A Walnut and Grayson Creeks Levee Rehabilitation at CCCSD Treatment Plant Project | \$ 1,097,321 | \$ 1,097,321 | \$ - | \$ 2,194,642 | 50% |
| (b) | Project B | | | | | |
| (c) | Project C | | | | | |
| (d) | Project D | | | | | |
| (e) | Project E | | | | | |
| (f) | Project F | | | | | |
| (g) | Project G | | | | | |
| (h) | Project H (add more rows for additional projects as necessary) | | | | | |
| (i) | Grand Total (Sum rows (a) through (h) for each column) | \$ 1,097,321 | \$ 1,097,321 | \$ - | \$ 2,194,642 | 50% |



Contra Costa County
Flood Control
 & Water Conservation District

Detailed Cost Estimate

Project Name: Walnut and Grayson Creeks Levee Rehabilitation at CCCSD Treatment Plant Project

Project Location: Martinez

Date of Estimate: 31-Jan-2013

| |
|---------------|
| Revision No.: |
|---------------|

| |
|----------------|
| Revision Date: |
|----------------|

Prepared by: Carl Roner

| Task No. | Description | Hours | Hourly Rate | Total |
|----------|--|-------|-------------|------------------|
| 1 | Preliminary Design and Risk and Uncertainty Analysis Task | | | |
| 1.1 | Preliminary Design Subtask | | | |
| | Senior Engineer | 4 | \$ 213.05 | \$ 852 |
| | Associate Engineer | 16 | \$ 187.03 | \$ 2,992 |
| | Staff Engineer | 30 | \$ 169.24 | \$ 5,077 |
| | Engineering Technician | 8 | \$ 115.65 | \$ 925 |
| | Clerical | 4 | \$ 92.76 | \$ 371 |
| | Preliminary Design Subtotal | | | \$ 10,218 |
| 1.2 | Risk and Uncertainty Analysis Subtask | | | |
| | Senior Hydrologist | 80 | \$ 213.05 | \$ 17,044 |
| | Associate Engineer | 16 | \$ 187.03 | \$ 2,992 |
| | Staff Engineer | 110 | \$ 169.24 | \$ 18,616 |
| | Engineering Technician | 8 | \$ 115.65 | \$ 925 |
| | Clerical | 8 | \$ 92.76 | \$ 742 |
| | Risk and Uncertainty Analysis Subtotal | | | \$ 40,320 |
| | Preliminary Design and Risk and Uncertainty Analysis Task Total | | | \$ 50,538 |
| 2 | Environmental Permitting and Compliance Task | | | |
| 2.1 | CEQA Subtask | | | |
| | Senior Environmental Planner | 20 | \$ 205.22 | \$ 4,104 |
| | Staff Environmental Planner | 60 | \$ 139.63 | \$ 8,378 |
| | Clerical | 24 | \$ 92.76 | \$ 2,226 |
| | Consultants for studies | | | \$ 40,000 |
| | CEQA Subtotal | | | \$ 54,708 |
| 2.2 | Permits Subtask | | | |
| | Senior Environmental Planner | 80 | \$ 205.22 | \$ 16,418 |
| | Staff Environmental Planner | 120 | \$ 139.63 | \$ 16,756 |
| | Clerical | 20 | \$ 92.76 | \$ 1,855 |
| | Permits Subtotal | | | \$ 35,028 |
| | Environmental Permitting and Compliance Task Total | | | \$ 89,737 |
| 3 | Real Property Acquisition Task | | | |
| | Senior Real Property Agent | 80 | \$ 168.75 | \$ 13,500 |
| | Real Property Agent | 140 | \$ 148.37 | \$ 20,772 |
| | Clerical | 40 | \$ 92.76 | \$ 3,710 |
| | Fee Take/Easement Costs | | | \$ 20,000 |
| | Real Property Acquisition Task Total | | | \$ 57,982 |

| Task No. | Description | Hours | Hourly Rate | Total |
|----------|---|-------|-------------|-------------------|
| 4 | Design Task | | | |
| 4.1 | Preliminary Scoping and Data Gathering Subtask | | | |
| | Supervising Engineer | 4 | \$ 265.00 | \$ 1,060 |
| | Senior Engineer | 8 | \$ 235.00 | \$ 1,880 |
| | Associate Engineer | 20 | \$ 185.00 | \$ 3,700 |
| | Staff Engineer | 40 | \$ 174.73 | \$ 6,989 |
| | Geotechnical Consultant | | | \$ 88,000 |
| | Preliminary Scoping and Data Gathering Subtotal | | | \$ 101,629 |
| 4.2 | Detailed Surveys Subtask | | | |
| | Supervising Surveyor | 22 | \$ 170.00 | \$ 3,740 |
| | Survey Technician | 64 | \$ 125.00 | \$ 8,000 |
| | 3 Person Survey Crew | 152 | \$ 310.00 | \$ 47,120 |
| | Detailed Surveys Subtotal | | | \$ 58,860 |
| 4.3 | 35% Plans and Estimate Subtask | | | |
| | Supervising Engineer | 3 | \$ 265.00 | \$ 795 |
| | Senior Engineer | 6 | \$ 235.00 | \$ 1,410 |
| | Associate Engineer | 16 | \$ 185.00 | \$ 2,960 |
| | Staff Engineer | 90 | \$ 174.73 | \$ 15,726 |
| | CAD Drafter | 60 | \$ 136.00 | \$ 8,160 |
| | CCCSD Senior Engineer | 8 | \$ 143.25 | \$ 1,146 |
| | CCCSD Associate Engineer | 16 | \$ 130.02 | \$ 2,080 |
| | 35% Plans and Estimate Subtotal | | | \$ 32,277 |
| 4.4 | 65% Plans, Specifications and Estimate Subtask | | | |
| | Supervising Engineer | 3 | \$ 265.00 | \$ 795 |
| | Senior Engineer | 6 | \$ 235.00 | \$ 1,410 |
| | Associate Engineer | 16 | \$ 185.00 | \$ 2,960 |
| | Staff Engineer | 72 | \$ 174.73 | \$ 12,581 |
| | CAD Drafter | 40 | \$ 136.00 | \$ 5,440 |
| | Supervising M&T Engineering Technician | 8 | \$ 180.00 | \$ 1,440 |
| | Clerical | 40 | \$ 92.76 | \$ 3,710 |
| | CCCSD Senior Engineer | 4 | \$ 143.25 | \$ 573 |
| | CCCSD Associate Engineer | 8 | \$ 130.02 | \$ 1,040 |
| | 65% Plans, Specifications and Estimate Subtotal | | | \$ 29,949 |
| 4.5 | 95% Plans, Specifications and Estimate Subtask | | | |
| | Supervising Engineer | 3 | \$ 265.00 | \$ 795 |
| | Senior Engineer | 6 | \$ 235.00 | \$ 1,410 |
| | Associate Engineer | 16 | \$ 185.00 | \$ 2,960 |
| | Staff Engineer | 60 | \$ 174.73 | \$ 10,484 |
| | CAD Drafter | 40 | \$ 136.00 | \$ 5,440 |
| | Clerical | 32 | \$ 92.76 | \$ 2,968 |
| | CCCSD Senior Engineer | 2 | \$ 143.25 | \$ 287 |
| | CCCSD Associate Engineer | 4 | \$ 130.02 | \$ 520 |
| | 95% Plans, Specifications and Estimate Subtotal | | | \$ 24,864 |
| 4.6 | 100% Plans, Specifications and Estimate Subtask | | | |
| | Supervising Engineer | 2 | \$ 265.00 | \$ 530 |
| | Senior Engineer | 6 | \$ 235.00 | \$ 1,410 |
| | Associate Engineer | 12 | \$ 185.00 | \$ 2,220 |
| | Staff Engineer | 40 | \$ 174.73 | \$ 6,989 |
| | CAD Drafter | 24 | \$ 136.00 | \$ 3,264 |
| | Clerical | 20 | \$ 92.76 | \$ 1,855 |
| | CCCSD Senior Engineer | 1 | \$ 143.25 | \$ 143 |
| | CCCSD Associate Engineer | 2 | \$ 130.02 | \$ 260 |
| | 100% Plans, Specifications and Estimate Subtotal | | | \$ 16,672 |
| | Design Task Subtotal | | | \$ 264,251 |

| Task No. | Description | Hours | Hourly Rate | Total |
|----------|--|-------|-------------|---------------------|
| 5 | Construction Engineering Task | | | |
| 5.1 | Advertise Subtask | | | |
| | Supervising Engineer | 1 | \$ 265.00 | \$ 265 |
| | Senior Engineer | 2 | \$ 235.00 | \$ 470 |
| | Associate Engineer | 2 | \$ 185.00 | \$ 370 |
| | Staff Engineer | 8 | \$ 174.73 | \$ 1,398 |
| | Senior Engineering Technician | 20 | \$ 145.00 | \$ 2,900 |
| | Clerical | 16 | \$ 92.76 | \$ 1,484 |
| | Advertise Subtotal | | | \$ 6,887 |
| 5.2 | Award Subtask | | | |
| | Supervising Engineer | 2 | \$ 265.00 | \$ 530 |
| | Senior Engineer | 2 | \$ 235.00 | \$ 470 |
| | Staff Engineer | 6 | \$ 174.73 | \$ 1,048 |
| | Senior Engineering Technician | 24 | \$ 145.00 | \$ 3,480 |
| | Clerical | 10 | \$ 92.76 | \$ 928 |
| | Award Subtotal | | | \$ 6,456 |
| 5.3 | Notice To Proceed Subtask | | | |
| | Supervising Engineer | 1 | \$ 265.00 | \$ 265 |
| | Senior Engineer | 1 | \$ 235.00 | \$ 235 |
| | Staff Engineer | 2 | \$ 174.73 | \$ 349 |
| | Senior Engineering Technician | 8 | \$ 145.00 | \$ 1,160 |
| | Clerical | 4 | \$ 92.76 | \$ 371 |
| | Notice To Proceed Subtotal | | | \$ 2,381 |
| 5.4 | Mobilization and Site Prep Subtask | | | |
| | Supervising Engineer | 1 | \$ 265.00 | \$ 265 |
| | Senior Engineer | 3 | \$ 235.00 | \$ 705 |
| | Staff Engineer | 4 | \$ 174.73 | \$ 699 |
| | Senior Engineering Technician | 8 | \$ 145.00 | \$ 1,160 |
| | Clerical | 10 | \$ 92.76 | \$ 928 |
| | Mobilization and Site Prep Subtotal | | | \$ 3,757 |
| 5.5 | Construction Subtask | | | |
| | Supervising Engineer | 12 | \$ 265.00 | \$ 3,180 |
| | Senior Engineer | 80 | \$ 235.00 | \$ 18,800 |
| | Staff Engineer | 620 | \$ 174.73 | \$ 108,333 |
| | Senior Engineering Technician | 60 | \$ 145.00 | \$ 8,700 |
| | CAD Drafter | 20 | \$ 110.00 | \$ 2,200 |
| | M&T Engineering Technician | 80 | \$ 120.00 | \$ 9,600 |
| | Supervising M&T Engineering Technician | 50 | \$ 180.00 | \$ 9,000 |
| | Clerical | 16 | \$ 92.76 | \$ 1,484 |
| | CCCSD Assistant Engineer | 90 | \$ 110.17 | \$ 9,915 |
| | Construction Contract (See Construction Estimate attached) | | | \$ 1,149,116 |
| | Construction Contingency (20% of Construction Contract) | | | \$ 229,823 |
| | Construction Subtotal | | | \$ 1,550,151 |
| 5.6 | Performance Testing and Demobilization Subtask | | | |
| | Supervising Engineer | 4 | \$ 265.00 | \$ 1,060 |
| | Senior Engineer | 8 | \$ 235.00 | \$ 1,880 |
| | Staff Engineer | 20 | \$ 174.73 | \$ 3,495 |
| | Senior Engineering Technician | 40 | \$ 145.00 | \$ 5,800 |
| | CAD Drafter | 16 | \$ 110.00 | \$ 1,760 |
| | Supervising Surveyor | 22 | \$ 170.00 | \$ 3,740 |
| | Survey Technician | 64 | \$ 125.00 | \$ 8,000 |
| | 3 Person Survey Crew | 152 | \$ 310.00 | \$ 47,120 |
| | Supervising M&T Engineering Technician | 10 | \$ 180.00 | \$ 1,800 |
| | M&T Engineering Technician | 24 | \$ 120.00 | \$ 2,880 |
| | Clerical | 20 | \$ 92.76 | \$ 1,855 |
| | Performance Testing and Demobilization Subtotal | | | \$ 79,390 |
| | Construction Task Subtotal | | | \$ 1,649,020 |

| Task No. | Description | Hours | Hourly Rate | Total |
|----------|--|-------|-------------|------------------|
| 6 | Reporting Task | | | |
| | Senior Engineer | 4 | \$ 213.05 | \$ 852 |
| | Staff Engineer | 10 | \$ 169.24 | \$ 1,692 |
| | Engineering Technician | 4 | \$ 115.65 | \$ 463 |
| | Clerical | 10 | \$ 92.76 | \$ 928 |
| | Reporting Task Subtotal | | | \$ 3,935 |
| 7 | Project Management Task | | | |
| 7.1 | Project Management Administration Subtask | | | |
| | Senior Engineer | 40 | \$ 213.05 | \$ 8,522 |
| | Associate Engineer | 160 | \$ 187.03 | \$ 29,925 |
| | Staff Engineer | 20 | \$ 169.24 | \$ 3,385 |
| | Engineering Technician | 16 | \$ 115.65 | \$ 1,850 |
| | Accounting Clerical | 80 | \$ 116.47 | \$ 9,318 |
| | Clerical | 10 | \$ 92.76 | \$ 928 |
| | CCCSD Administrative Assistant | 10 | \$ 87.97 | \$ 880 |
| | CCCSD Senior Engineer | 30 | \$ 143.25 | \$ 4,298 |
| | Project Management Administration Subtotal | | | \$ 59,104 |
| 7.2 | Labor Compliance Program/Project Labor Agreement Subtask | | | |
| | Senior Engineer | 20 | \$ 213.05 | \$ 4,261 |
| | Associate Engineer | 8 | \$ 187.03 | \$ 1,496 |
| | Staff Engineer | 8 | \$ 169.24 | \$ 1,354 |
| | Engineering Technician | 80 | \$ 115.65 | \$ 9,252 |
| | Clerical | 40 | \$ 92.76 | \$ 3,710 |
| | Labor Compliance Program/Project Labor Agreement Subtotal | | | \$ 20,074 |
| | Project Management Task Subtotal | | | \$ 79,178 |

TOTAL PROJECT COSTS

\$

2,194,641



Contra Costa County Flood Control & Water Conservation District

Project Name: Walnut and Grayson Creeks Levee Rehabilitation At
CCCSD Treatment Plant

PRELIMINARY CONSTRUCTION ESTIMATE

Cost Estimate Date: 1/31/2013

| Item No. | Bid Item Description | Unit | Quantity | Unit Cost (In Figures) | Amount (In Figures) |
|----------|---|------|----------|------------------------|---------------------|
| 1 | PREPARE WATER POLLUTION CONTROL PROGRAM | LS | 1 | \$ 2,500.00 | \$ 2,500 |
| 2 | WATER POLLUTION CONTROL | LS | 1 | \$ 10,000.00 | \$ 10,000 |
| 3 | TEMPORARY FENCE (TYPE ESA) | LF | 7,800 | \$ 7.00 | \$ 54,600 |
| 4 | CHAINLINK FENCE (8-FT) WITH BARBED WIRE | LF | 7,730 | \$ 30.00 | \$ 231,900 |
| 5 | CONSTRUCTION AREA SIGNS | LS | 1 | \$ 2,500.00 | \$ 2,500 |
| 6 | TRAFFIC CONTROL SYSTEM | LS | 1 | \$ 10,000.00 | \$ 10,000 |
| 7 | CLEARING AND GRUBBING | Acre | 7.2 | \$ 3,900.00 | \$ 28,080 |
| 8 | DEMOLISH EXISTING CL FENCE AND FOOTINGS | LF | 7,730 | \$ 4.00 | \$ 30,920 |
| 9 | ROADWAY EXCAVATION | CY | 4,580 | \$ 25.00 | \$ 114,500 |
| 10 | IMPORT BORROW (LEVEE RAISING) | CY | 15,354 | \$ 29.00 | \$ 445,266 |
| 11 | EROSION CONTROL (HYDROSEED) | SF | 164,000 | \$ 0.30 | \$ 49,200 |
| 12 | CLASS 2 AGGREGATE BASE | TON | 4,524 | \$ 37.50 | \$ 169,650 |

| | |
|--------------------------|---------------------|
| Contract Subtotal * | \$ 1,149,116 |
| 20% Contract Contingency | \$ 229,823 |
| ROUNDED = | \$ 1,379,000 |

ASSUMPTIONS:

- 1 The top 12" of the levee/access road are scarified to remove existing AB.
- 2 Adequate import borrow exists on CCCSD property.
- 3 Average top of levee width is 19' with 2:1 front & back side slopes.
- 4 Replace AB access road surface - 16' wide, 6" deep.
- 5 The existing 8-foot chainlink fence will be removed and replaced in kind.