



JOHN A. FANTHAM
DIRECTOR OF PUBLIC WORKS

County of Santa Cruz

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DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060-4070
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

AGENDA: May 25, 1999

May 18, 1999

SANTA CRUZ COUNTY BOARD OF SUPERVISORS

701 Ocean Street
Santa Cruz, California 95060

SUBJECT: CALIFORNIA DEPARTMENT OF FISH AND GAME
GRANT APPLICATIONS

Members of the Board:

Representatives from Santa Cruz County Public Works Department, Santa Cruz County Planning Department and the Santa Cruz County Resource Conservation District, recently collaborated to apply for the California Department of Fish and Game Fishery Restoration Grants Program.

Two applications were completed and submitted for the May 14, 1999, final filing date. One grant is titled Technical Training for Implementing Erosion Control Best Management Practices and requests \$23,253.00. This project would complete a technical review of current Santa Cruz County Public Works erosion control design criteria and provide training to local agency staff in erosion reduction through proper implementation of erosion control practices.

The other grant is titled Santa Cruz County Road-Related Erosion Prevention Planning Project. This application requests \$51,008.00 to complete a survey and assessment of road-related drainage features with erosion potential within the San Lorenzo River watershed and develop a prioritized action plan for correctable or preventable treatment or maintenance.


The proposed projects will promote interagency cooperation and consistency, and improve compliance with California Department of Fish and Game Code statutes.

Approval by your Board of the grant application is required as part of the grant process. Attached are copies of the grants and a resolution approving the grant application.

It is therefore recommended that the Board of Supervisors take the following action:

1. Adopt the attached resolution approving submittal of the grant applications.
2. Direct the Clerk of the Board to return a copy of the approved resolution to Public Works for further processing.

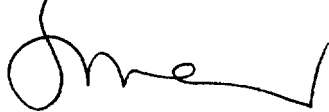
Yours truly,


For JOHN A. FANTHAM
Director of Public Works

VE:rw

Attachments

RECOMMENDED FOR APPROVAL:



County Administrative Officer

copy to: Public Works

BEFORE THE BOARD OF SUPERVISORS
OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

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RESOLUTION NO. _____

On the motion of Supervisor
duly seconded by Supervisor
the following resolution is adopted:

RESOLUTION APPROVING SUBMITTAL OF GRANT APPLICATIONS

WHEREAS, grant funding is available for fishery restoration work from the State of California Department of Fish and Game; and

WHEREAS, activities associated with maintenance of County roads have potential for degradation of fishery resources; and

WHEREAS, Public Works, Planning and the Resource Conservation District have prepared two grant applications titled "Technical Training for Implementing Erosion Control Best Management Practices" and "Santa Cruz County Road-Related Erosion Prevention Planning Project"; and

WHEREAS, the grant application process requires that all grants be approved by resolution of the governing body.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of the County of Santa Cruz that the Board of Supervisors does hereby support and approve of the two aforementioned grant applications.

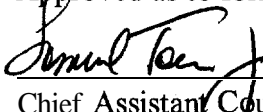
PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Cruz, State of California, this 0 day f _____ 1999, by the following vote:

AYES: SUPERVISORS
NOES: SUPERVISORS
ABSENT: SUPERVISORS

Chairperson of said Board

ATTEST: _____
Clerk of said Board

Approved as to form:

 5/18/99

Chief Assistant County Counsel
Distribution: County Counsel
Public Works

CDFR

Technical Training for Implementing Erosion Control Best Management Practices

Summary Sheet

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1. Contractor County of Santa Crnz Public Works
2. Type of Contractor Public Agency
3. Street Address 701 Ocean Street
4. City SantaCruz
5. State California
6. Zip Code 95060
7. Contact Person Valerie Epperson, Engineering Technician III
8. Telephone Number (83 1) 454-2160, Fax (83 1) 454-2385
9. Project Title Technical Training to Implement Erosion Control
10. Funding Request \$23,25 3
11. Objective: The primary objective is to train local agency staff in methods to reduce erosion to prevent degradation of anadromous fish habitat through implementation of revised Santa Cruz County Public Works erosion control design criteria and best management practices.
12. Species Benefitted Coho Salmon, Steelhead
13. Work Schedule September 1999-September 2000
14. County Santa Cruz
15. Stream San Lorenzo River Watershed
16. Tributary to Monterey Bay
17. Major Drainage System San Lorenzo River
18. Assembly District 27
19. Senate District 15
20. Past Contractor (Contracted with DFG in the past for fisheries restoration work) No
21. FederalTaxpayerID# 94-6000534
22. Project Site Falls Within Coastal Zone? No
23. Project Site Falls Within Klamath River Basin? No
24. Project Site Falls Within Trinity River Basin? No
25. Project Type TE

BACKGROUND

The County of Santa Cruz Public Works Department maintains over 600 miles of roadway throughout Santa Cruz County including over 150 County maintained miles located within the San Lorenzo River Watershed.

The San Lorenzo River Watershed, located in Santa Cruz County, encompasses an area of 138 square miles. The San Lorenzo River discharges to northern Monterey Bay, a part of the Monterey Bay National Marine Sanctuary, at the City of Santa Cruz. The topography of the watershed is moderately rugged with elevations ranging from sea level to over 3,000 feet. Steep slopes exceeding 30 percent are common and support dense growths of coast redwood and mixed-evergreen forests. The soils of the watershed are diverse, reflecting the complex bedrock geology of mudstone/shales and sandstones, fractured granitic rocks, schists and metamorphosed limestones. The region has a Mediterranean climate with dry summers and moderate-to-heavy rainfall in the winter months from November through March. Mean annual rainfall ranges from about 25 inches along the coast to upwards of 60 inches along the ridge of Ben Lomond Mountain.

The River is highly valued for recreation and historically supported the most important coho salmon and steelhead fishery south of the San Francisco Bay. Coho salmon spawning in streams south of San Francisco Bay were designated as "Endangered" under the California Endangered Species Act on October 6, 1995. The Santa Cruz County streams named in this decision included Waddell, Scott and San Vicente Creeks, the San Lorenzo River, and Soquel and Aptos Creeks. Steelhead salmon were federally listed as threatened along central California in 1997.

Originally the area was developed as a summer home and resort community. Since the 1960's the watershed has experienced an extensive amount of new development and conversion of older homes to year round use. As of today, approximately 75,000 people live within the Watershed. This rapid rate of growth in a watershed known for its highly erodible soils and steep, unstable slopes has had major, negative impacts on the health of the river.

The San Lorenzo Watershed Plan (Ricker, et.al., 1979) identified erosion and sedimentation as the most significant causes of surface water quality degradation and fishery declines. The effectiveness of the erosion and sedimentation control measures recommended in the 1979 San Lorenzo River Watershed Plan were recently evaluated as part of the 1998 San Lorenzo Watershed Plan Update. A sediment source survey for the purpose of understanding the major contributors to bed sedimentation and the relative impact to streams from different types of land use and land disturbance was included in the evaluation. This study (Balance Hydrologics, Inc., 1998) identified the primary contributor of habitat-impairing sediment as coming from the extensive road network, as virtually all streams in the San Lorenzo River Watershed are crossed by roads, culverts, at-grade fords or are bordered by roadways. It is stated in the report that, "Maintenance and repair of roads is as much a constant challenge in the San Lorenzo watershed now as it was during the 1970's. Drainage management, particularly appropriate sizing, location and maintenance of culverts, waterbars and ditches is at the core of many road failures and erosion problems."

The Draft Restoration Plan for the Endangered Coho Salmon South of San Francisco Bay as

compiled for the Department of Fish and Game (July 1998) also cites streambed sedimentation as one of the major, universal contributing factors in the extinction and near-extinction of the southern coho in the Restoration Plan for the Endangered Coho Salmon south of San Francisco Bay. For the San Lorenzo River, the Restoration Plan specifically identifies sedimentation as an adverse factor in need of remedial action.

PROPOSED LAND USE Not Applicable

OBJECTIVES

The primary objective is to train local agency staff in methods to reduce erosion to prevent the degradation of anadromous fish habitat. Implementation of established best management practices for erosion control will significantly reduce sediment production and delivery to fish-bearing streams. Instructional information for erosion control design, construction and maintenance will be provided in a training format for multiple jurisdictions including County Public Works, Planning and Parks Departments and other regulating agencies. The Training will improve consistency and compliance with Fish and Game Code statutes relating to work within or near the stream channel.

LOCATION

Training will be specific to projects within the San Lorenzo River Watershed. Erosion control procedures will be implemented to projects County wide including but not limited to Aptos Creek, San Vicente Creek, Scott Creek, Soquel Creek, and Waddell Creek.

PROJECT DESCRIPTION

Representatives from the Santa Cruz County Resource Conservation District, Santa Cruz County Planning Department and Santa Cruz County Public Works Department have met to address the limiting factors of erosion and sediment within Santa Cruz County. The collaboration of these entities will initiate interagency cooperation and consistency in implementing erosion control best management practices throughout the County. Interagency participation will include the Santa Cruz County Resource Conservation District, Santa Cruz County Planning Department, Santa Cruz County Public Works Department, Santa Cruz County Parks Department, California State Parks and other regulating agencies.

An erosion control consultant will perform a technical review, assessment and revision of current Santa Cruz County Public Works erosion control design criteria, in consultation with California Department of Fish and Game. The revised erosion control design criteria will be utilized as the basis for the instructional curriculum and a specifically developed manual for implementing Santa Cruz County Erosion Control practices.

Training will focus on recurring problem areas as identified erosion prevention, including debris

Technical Training for Implementing Erosion Control Best Management Practices

stockpiling and drainage improvements, through the improvement of maintenance practices and implementation of best management practices. Training workshops and field meetings will facilitate cooperation among the Public Works Department, and the regulatory and planning community responsible for protecting the fishery resources.

Three course sessions with field exercises and three specific project site field meetings will be scheduled over a nine month period to provide seasonal specific erosion control training. Including site winterizing in-the fall, hazard mitigation during the winter and post storm clean up in the spring. Each training course will consist of an eight hour session including instructional presentation and field exercises and at least six hours specific project site field training.

Training will be provided to approximately 100 people in all levels of erosion control management. The Public Works Department is responsible for the design, review, construction, inspection and maintenance of County maintained road projects. Public Works attendees will include road maintenance staff consisting of five districts with over fifty employees, six construction inspectors, road design staff, and operations staff. Planning Department participation will include Environmental Planning and Code Compliance.

Environmental Planning staff advises the public and other agencies on County environmental and resource protection regulations. They are responsible for the review of building and discretionary permit applications for consistency with County environmental regulations; process applications for grading and riparian corridor permits; perform technical review including soils reports, geologic hazards assessments and biotic assessments; and participate in ordinance and general plan policy amendments. Planning Department Code Compliance staff are responsible for investigating violations of and obtaining compliance with, building code, zoning ordinance and environmental protection regulations.

PERMITS No permits are required for this project.

SCHEDULING

July - September 1999 contract with consultant to assess County design criteria and develop curriculum

September 1999-November 1999 complete curriculum (classroom and field components), and enrollment development for November training session

December 1999-January 2000 enrollment development for February training session

March 2000-April 2000 enrollment development for April training session

Technical Training for Implementing Erosion Control Best Management Practices

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ESTIMATED BUDGET

| | | | Amount Requested | Amount of Cost Share | Project Total |
|--|--------|-------------|---------------------|-------------------------|--------------------|
| PERSONNEL COSTS | | | | | |
| | Hours | Hourly Rate | | | |
| <u>Santa Cruz County Public Works Dept.</u> | | | | | |
| Project Administration | 120 | \$27.19 | \$2,173.02 | \$1,087.49 | \$3,260.52 |
| Design, Construction and Maintenance Staff (60x16 hours) avg. salary | 480 | \$30.00 | \$0.00 | \$14,400.00 | \$14,400.00 |
| <u>Santa Cruz County Planning Department</u> | | | | | |
| Resource Planner III (Coordination) | 40 | \$28.75 | \$575.00 | \$575.00 | \$1,150.00 |
| Planning Code Enforcement (6x16 hours) avg. salary | 96 | \$30.00 | \$0.00 | \$2,880.00 | \$2,880.00 |
| Environmental Planning (4x16 hours) avg. salary | 64 | \$30.00 | \$0.00 | \$1,920.00 | \$1,920.00 |
| <u>Santa Cruz County Resource Conservation District Staff (Training)</u> | 40 | \$26.56 | \$531.20 | \$531.20 | \$1,062.40 |
| Staff Benefits at 30% | | | \$983.77 | \$6,418.11 | \$7,401.87 |
| Erosion Control Consultant | 160 | \$80.00 | \$12,800.00 | \$0.00 | \$12,800.00 |
| Lecture 3 days @\$ 1,000 /day | | | \$3,000.00 | \$0.00 | \$3,000.00 |
| TOTAL PERSONNEL COSTS | | | \$20,062.99 | \$27,811.80 | \$47,874.79 |
| OPERATIONAL EXPENSES | | | | | |
| Materials (100 copies @\$17.50) | | | \$1,750.00 | \$0.00 | \$1,750.00 |
| Publicizing | | | \$200.00 | \$0.00 | \$200.00 |
| Facility | | | \$25.00 | \$0.00 | \$25.00 |
| Transportation site visit (3 vans) | 50 | \$7.50 | \$375.00 | \$0.00 | \$375.00 |
| Instructor Travel Expenses 100 miles x8 @.24 pm 8 days accommodations | | | \$840.00 | \$160.00 | \$1,000.00 |
| Overhead | | | | | |
| RCD 10% | | | \$0.00 | \$106.24 | \$106.24 |
| Santa Cruz County 30% | | | \$0.00 | \$7,083.15 | \$7,083.15 |
| TOTAL OPERATION EXPENSES | | | \$3,190.00 | \$7,349.39 | \$10,539.39 |
| TOTAL TRAINING EXPENSES | | | \$23,252.99 | \$35,161.19 | \$58,414.19 |
| PERCENT COST SHARE | 60.19% | | | | |

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NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 2-93)

403

COMPANY NAME

COUNTY OF SANTA CRUZ PUBLIC WORKS DEPT.

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, and denial of family care leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the 'above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

THOMAS BOLECH FOR J.A. FANTHAM, DIRECTOR

OFFICIALS NAME

5/14/99

DATE EXECUTED

SANTA CRUZ

EXECUTED IN THE COUNTY OF

Thomas Bohlen

PROSPECTIVE CONTRACTOR'S SIGNATURE

ASSIST. DIRECTOR

PROSPECTIVE CONTRACTOR'S TITLE

COUNTY OF SANTA CRUZ - PUBLIC WORKS DEPT.

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized legally to bind the contractor or grant recipient to the certification described below. I am fully aware that this certification, executed on the date below, is made under penalty of perjury under the laws of the State of California.

| | | |
|---|--|---|
| CONTRACTOR/BIDDER FIRM NAME <u>COUNTY OF SANTA CRUZ - PUBLIC WORKS</u> | | FEDERAL ID NUMBER <u>94-6000534</u> |
| BY (Authorized Signature) <u>THOMAS BOLICH for J.A. Farthman, Director</u> | | DATE EXECUTED <u>5/14/99</u> |
| PRINTED NAME AND TITLE OF PERSON SIGNING <u>THOMAS BOLICH</u> | | TELEPHONE NUMBER (include Area Code) <u>(831) 758-454-2160</u> |
| TITLE <u>ASST. DIRECTOR OF PUBLIC WORKS</u> | | |
| CONTRACTOR/BIDDER FIRM'S MAILING ADDRESS <u>701 OCEAN STREET, SANTA CRUZ, CA 95060</u> | | |

The contractor or grant recipient named above hereby certifies compliance with Government Code Section 8355 in matters relating to providing a drug-free workplace. The above named contractor or grant recipient will:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a).
2. Establish a Drug-Free Awareness Program as required by Government Code Section 8355(b), to inform employees about all of the following:
 - (a) The dangers of drug abuse in the workplace,
 - (b) The person's or organization's policy of maintaining a drug-free workplace,
 - (c) Any available counseling, rehabilitation and employee assistance programs, and
 - (d) Penalties that may be imposed upon employees for drug abuse violations
3. Provide as required by Government Code Section 8355(c), that every employee who work on the proposed contract or grant:
 - (a) Will receive a copy of the company's drug-free workplace policy statement, and
 - (b) Will agree to abide by the terms of the company's statement as a condition of employment on the contract or grant.
4. At the election of the contractor or grantee, from and after the "Date Executed" and until (DATE) (NOT TO EXCEED 36 MONTHS), the state will regard this certificate as valid for all contracts or grants entered into between the contractor or grantee and this state agency without requiring the contractor or grantee to provide a new and individual certificate for each contract or grant. If the contractor or grantee elects to fill in the blank date, then the terms and conditions of this certificate shall have the same force, meaning, effect and enforceability as if a certificate were separately, specifically, and individually provided for each contract or grant between the contractor or grantee and this state agency.

This SB271 Grant Application is expected to go before the Santa Cruz County Board of Supervisors for approval on May 18, 1999.

Santa Cruz County Road-Related Erosion Prevention Planning Project

Summary Sheet

1. Contractor County of Santa Cruz Public Works
2. Type of Contractor Public Agency
3. Street Address 701 Ocean Street
4. City Santa Cruz
5. State California
6. Zip Code 95060
7. Contact Person Valerie Epperson, Engineering Technician III
- a. Telephone Number (831) 454-2160, Fax (831) 454-2385
9. Project Title Santa Cruz County Erosion Prevention Planning Project
10. Funding Request \$51,006 ..
11. Objective: The primary objectives of this watershed survey and assessment of road-related drainage features within the San Lorenzo River Watershed
12. Species Benefitted Coho Salmon, Steelhead
13. Work Schedule September 1999-September 2000
14. County Santa Cruz
15. Stream San Lorenzo River Watershed
16. Tributary to Monterey Bay
17. Major Drainage System San Lorenzo River
18. Assembly District 27
19. Senate District 15
20. Past Contractor (Contracted with DFG in the past for fisheries restoration work) No
21. Federal Taxpayer ID# 94-6000534
22. Project Site Falls Within Coastal Zone? No
23. Project Site Falls Within Klamath River Basin? No
24. Project Site Falls Within Trinity River Basin? No
25. Project Type PL

Santa Cruz County Road-Related Erosion Prevention Planning Project

I. Statement of Qualifications and Experience

The Santa Cruz County road-related drainage erosion survey and assessment for the San Lorenzo River watershed, will follow DFG accepted road erosion inventory protocol developed by Pacific Watershed Associates. It is necessary to follow an organized, systematic series of steps in assessing watershed sediment conditions to ensure that erosion control and erosion prevention work will treat those sources of future erosion and sediment yield that could be effectively controlled for the lowest expenditure. Problem areas will be systematically identified and treated with regard to their importance in overall watershed health and to the ability to cost-effectively control or prevent stream sedimentation.

II. Statement of Objectives

The primary objectives of this watershed survey and assessment of road-related drainage features within the San Lorenzo River Watershed include the following: 1) identify, inventory all road-related drainage features and assess of their contribution to erosion and sedimentation of the streambed; 2) develop a prioritized action plan for correctable or preventable treatment or maintenance.

III. Statement of Justification

Sedimentation of fish habitat has been identified as the primary cause of the decline in anadromous steelhead and coho salmon runs in the San Lorenzo River. Stream surveys conducted by the Department of Fish and Game from 1966 to 1972 noted habitat degradation by sediment deposition by the changes in bed composition from 8 percent silt in 1966 to 65 percent silt in 1972. During this same period, the percentage of the bed consisting of gravel, utilized by coho and steelhead for spawning, dropped from 20 percent to 2 percent. Bed sedimentation impairs fish and aquatic habitat. Sedimentation can also cause or aggravate bank stability problems by inducing overtopping or undercutting of streambanks.

The San Lorenzo Watershed Plan (County of Santa Cruz and California Department of Fish and Game 1979) identified erosion and sedimentation as the most significant causes of surface water quality degradation and fishery declines. The effectiveness of the erosion and sedimentation control measures recommended in the 1979 San Lorenzo River Watershed Plan was recently evaluated as part of the 1996 San Lorenzo Watershed Plan Update. This study (Balance Hydrologics, Inc., 1996) identified the primary contributor of habitat-impairing sediment as coming from the extensive road network, as virtually all streams in the San Lorenzo River Watershed are crossed by roads, culverts, at-grade fords or are bordered by roadways. It is stated in the report that, "Maintenance and repair of roads is as much a constant challenge in the San

Santa Cruz County Road-Related Erosion Prevention Planning Project

Lorenzo watershed now as it was during the 1970's. Drainage management, particularly appropriate sizing, location and maintenance of culverts, waterbars and ditches is at the core of many road failures and erosion problems. "

The Draft Restoration Plan for the Endangered Coho Salmon South of San Francisco Bay as compiled for the Department of Fish and Game (July 1998) also cites streambed sedimentation as one of the major, universal contributing factors in the extinction and near-extinction of the southern coho in the Restoration Plan for the Endangered Coho Salmon south of San Francisco Bay. For the San Lorenzo River, the Restoration Plan specifically identifies sedimentation as an adverse factor in need of remedial action. Included in the Priority 1 listing of action items is the use of the County sediment study report to guide remedial actions to be taken in reducing stream sedimentation and turbidities.

IV. Summary of Conditions

The San Lorenzo Watershed Management Plan was completed in 1979, as a joint project of the county and California Department of Fish and Game. As a follow up to this plan an Assessment of Streambed Condition and Erosion Control Efforts in the San Lorenzo River Watered was completed in 1998. This study, (Balance Hydrologics, Inc., 1998) included the review and analysis of numerous studies and references dating from the mid 1970's to the present, including CDFG Stream Surveys, County Office of Watershed Management Stream Surveys, and approved Timber Harvest Plans. A comprehensive list of references is presented in the attached list of references.

The San Lorenzo River Watershed, located in Santa Cruz County, encompasses an area of 138 square miles. The San Lorenzo River discharges to northern Monterey Bay, a part of the Monterey Bay National Marine Sanctuary, at the City of Santa Cruz. The topography of the watershed is moderately rugged with elevations ranging from sea level to over 3,000 feet. Steep slopes exceeding 30 percent are common and support dense growths of coast redwood and mixed-evergreen forests. The soils of the watershed are diverse, reflecting the complex bedrock geology of mudstone/shales and sandstones, fractured granitic rocks, schists and metamorphosed limestones. The region has a Mediterranean climate with dry summers and moderate-to-heavy rainfall in the winter months from November through March. Mean annual rainfall ranges from about 25 inches along the coast to upwards of 60 inches along the ridge of Ben Lomond Mountain.

The River is highly valued for recreation and historically supported the most important coho salmon and steelhead fishery south of the San Francisco Bay. Coho salmon spawning in streams south of San Francisco Bay as designated as "Endangered" under the California Endangered Species Act on October 6, 1995.

Santa Cruz County Road-Related Erosion Prevention Planning Project

Originally the area was developed as a summer home and resort community. Since the 1960's the watershed has experienced an extensive amount of new development and conversion of older homes to year round use. As of today, approximately 75,000 people live within the Watershed. This rapid rate of growth in a watershed known for its highly erodible soils and steep, unstable slopes has had major, negative impacts on the health of the river.

One element of this study was a sediment source survey for the purpose of understanding the major contributors to bed sedimentation and the relative impact to streams from different types of land use and land disturbance. The goal of this task was to assist in setting priorities for recommended corrective strategies to reduce habitat impairing sedimentation in the San Lorenzo River system. The study found that chronic erosion from roadcuts and unpaved roads remain the greatest visible contributor of sediment to the San Lorenzo River and its tributaries.

V. PROJECT DESCRIPTION

The proposed assessment and planning project for all county maintained roads (approximately 150 miles) within the San Lorenzo River watershed in Santa Cruz County will consist of several components designed to meet the project objectives (listed above). These consist of the following abbreviated task descriptions:

1. Perform record searches, conduct field inventories and map sites of existing and future road-related drainage facilities along all county roads within the watershed. Data will be collected on all sites and road reaches which deliver, or can be expected to deliver, sediment to the San Lorenzo River and its tributaries.
2. Develop a prioritized action plan, including site specific treatment prescriptions (including both heavy equipment, labor intensive and material requirements, and estimated costs), and prioritize sites for treatment based on treatment cost-effectiveness (e.g., \$spent/ yd³ of soil "saved" from being delivered to a stream channel). Road-related treatments will largely involve road upgrading, erosion control and erosion prevention activities.

As the results of the road-related drainage facilities survey and assessment become available, the county will computerize the database and incorporate into their existing GIS mapping system.

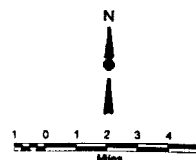


SAN LORENZO RIVER WATERSHED

Contour Interval = 100'

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Prepared by the County of Santa Cruz GIS Staff



ESTIMATED BUDGET

| | | | Amount Requested | Amount of Cost Share | Project Total |
|--|---------------|-------------|---------------------|-------------------------|--------------------|
| PERSONNEL COSTS | Hours | Hourly Rate | | | |
| <u>Santa Cruz County Public Works Dept.</u> | | | | | |
| Project Administration | 300 | \$27.19 | \$5,432.56 | \$2,718.73 | \$8,151.29 |
| <u>Santa Cruz County Planning Department</u> | | | | | |
| Database Entry GIS | 80 | \$52.00 | \$3,120.00 | \$1,040.00 | \$4,160.00 |
| Staff Benefits at 30% | | | \$2,565.77 | \$1,127.62 | \$3,693.39 |
| <u>Erosion Survey Consultant</u> | | | | | |
| Lead Professional | 480 | \$50.00 | \$24,000.00 | \$0.00 | \$24,000.00 |
| Field Technicians | 420 | \$25.00 | \$10,500.00 | \$0.00 | \$10,500.00 |
| Staff Benefits at 15% | | | \$5,175.00 | \$0.00 | \$5,175.00 |
| TOTAL PERSONNEL COSTS | | | \$45,360.77 | \$2,167.62 | \$47,528.39 |
| OPERATIONAL EXPENSES | | | | | |
| Transportation (local 5650 miles @ 0.35/mile) | | | \$1,977.50 | \$0.00 | \$1,977.50 |
| Transportation to Job Site @\$.24 pm | | | \$1,000.00 | \$0.00 | \$1,000.00 |
| Office supplies | | | \$200.00 | \$0.00 | \$200.00 |
| Field supplies and materials | | | \$500.00 | \$0.00 | \$500.00 |
| Copies and photo documentation | | | \$800.00 | \$0.00 | \$800.00 |
| Fax and communication | | | \$150.00 | \$0.00 | \$150.00 |
| Computer | | | \$1,020.00 | \$0.00 | \$1,020.00 |
| TOTAL OPERATIONAL EXPENSES | | | \$5,647.50 | \$0.00 | \$5,647.50 |
| Overhead 10.00% | | | \$0.00 | \$5,317.05 | \$5,317.05 |
| TOTAL TRAINING EXPENSES | | | \$51,008.27 | \$7,484.67 | \$58,492.94 |
| PERCENT COST SHARE | 12.80% | | | | |

COMPANY NAME COUNTY OF SANTA CRUZ PUBLIC WORKS DEPT.

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or' allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, and denial of family care leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the 'above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

THOMAS BOULCH FOR J.A. FANTHAM, DIRECTOR

OFFICIALS NAME

5/14/99

DATE EXECUTED

SANTA CRUZ

EXECUTED IN THE COUNTY OF

PROSPECTIVE CONTRACTOR'S SIGNATURE

ASSIST. DIRECTOR


PROSPECTIVE CONTRACTOR'S TITLE

COUNTY OF SANTA CRUZ - PUBLIC WORKS DEPT.

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

CERTIFICATION

I, the official named Mow, hereby swear that I am duly authorized legally to bind the contractor or grant recipient to the certification described below. I am fully aware that this certification, executed on the date below, is made under penalty of perjury under the laws of the State of California.

| | | |
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| CONTRACTOR/BIDDER FIRM NAME COUNTY OF SANTA CRUZ - PUBLIC WORKS | | FEDERAL ID NUMBER 94-6000534 |
| BY (Authorized Signature)  THOMAS BOLICH for J.A. Farthman, Director | | DATE EXECUTED 5/14/99 |
| PRINTED NAME AND TITLE OF PERSON SIGNING THOMAS BOLICH | | TELEPHONE NUMBER (Include Area Code) (831) 454-2160 |
| TITLE ASST. DIRECTOR OF PUBLIC WORKS | | |
| CONTRACTOR/BIDDER FIRM'S MAILING ADDRESS 701 OCEAN STREET, SANTA CRUZ, CA 95060 | | |

The contractor or grant recipient named above hereby certifies compliance with Government Code Section 8355 in matters relating to providing a drug-free workplace. The above named contractor or grant recipient will:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a).
2. Establish a Drug-Free Awareness Program as required by Government Code Section 8355(b), to inform employees about all of the following
 - (a) The dangers of drug abuse in the workplace,
 - (b) The person's or organization's policy of maintaining a drug-free workplace,
 - (c) Any available counseling, rehabilitation and employee assistance programs, and
 - (d) Penalties that may be imposed upon employees for drug abuse violations
3. Provide as required by Government Code Section 8355(c), that every employee who works on the proposed contract or grant:
 - (a) Will receive a copy of the company's drug-free workplace policy statement, and
 - (b) Will agree to abide by the terms of the company's statement as a condition of employment on the contract or grant.
4. At the election of the contractor or grantee, from and after the "Date Executed" and until (NOT TO EXCEED 36 MONTHS), the state will regard this certificate as valid for all contracts or grants entered into between the contractor or grantee and this state agency without requiring the contractor or grantee to provide a new and individual certificate for each contract or grant. If the contractor or grantee elects to fill in the blank date, then the terms and conditions of this certificate shall have the same force, meaning, effect and enforceability as if a certificate were separately, specifically, and individually provided for each contract or grant between the contractor or grantee and this state agency.

This SB271 Grant Application is expected to go before the Santa Cruz County Board of Supervisors for approval on May '18, 1999.

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