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The Silicon Valley Pollution Prevention Center

Patrick T. Ferraro, Executive Director

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CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, California 95814

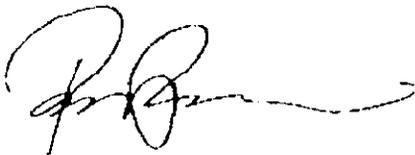
Attention: Ms. Kate Hansel

Dear Ms. Hansel:

Enclosed, please find 10 copies of an Inquiry Proposal to the CALFED 1997 Category III Ecosystem Restoration Projects and Programs.

We look forward to discussing the enclosed proposal, which we believe can connect concerns for the Bay Delta to actions and programs initiated and implemented in the watershed of South San Francisco Bay. Please address all questions and comments to Mr. Patrick T. Ferraro, Executive Director at the above addresses.

Sincerely,



Patrick T. Ferraro,
Executive Director

CALFED Inquiry Submittal for Category III

Project Title: Urban Runoff BMP Assessment for Metals and Petroleum based Hydrocarbon Compounds Pollution Prevention Project

Applicant: *The Silicon Valley Pollution Prevention Center*

Project Description: To install and/or evaluate the effectiveness of various runoff control devices considered as Best Management Practices (BMPs) for compliance with urban stormwater permits under Section 208 of the Clean Water Act and NPDES Stormwater Permits issued through the Regional Water Quality Control Boards. Devices will be in South Bay Watershed, but data will be transportable throughout urbanized area of Bay Delta watersheds.

BMP devices are intended to reduce the unabated discharge of heavy metals and petroleum-based hydrocarbons, which have the effect of inhibiting or interfering with the fresh, brackish and marine ecosystems by introducing toxic elements into the aquatic ecosystems throughout the urbanized portions of the watersheds tributary to the Bay Delta System.

Approach: Assess the effectiveness of stormwater runoff pollutant removal on three South San Francisco Bay public agency facilities' parking lots, by installing appropriate BMP devices and evaluating the removal rate of priority pollutants.

Task 1. Create stakeholder committee as a steering group to guide protocol for installing and monitoring and assessing BMP devices. Hold meetings monthly for duration of study.

Task 2. Install a variety of BMP devices where appropriate in public facilities not currently mandated to retrofit existing parking lots.

Task 3. Sample inflow and outflow from devices for priority pollutants through two rainfall seasons, compile data, and determine effectiveness of various devices.

Task 4. Print draft report for peer review, compile comments and re-draft report as needed.

Task 5. Print final report and submit to CALFED. Assist CALFED with dissemination of material through development of web site link, and other communication media.

Project Schedule:

Task 1: First committee meeting one month following funding commitment, continuing monthly through two rainfall seasons plus four months for report finalization, approximately Sept. 1 of second year.

Task 2: Installation of devices by September 1 in first year following funding commitment.

Task 3: Sampling through two rainfall seasons following funding

Task 4: May through July of year following second rainfall season.

Task 5: Completion by September 1 of second year.

Justification for Project and CALFED Funding: This project will contribute to the CALFED solution by assessing the condition of CALFED priority species populations and habitats within the South Bay and by developing mechanisms for their improvement. **The information developed will be transportable to all watersheds tributary to the Bay Delta Estuary.** Several of CALFED's designated priority species and habitats are documented to exist within the South San Francisco Bay watersheds. Steelhead trout runs are presently documented in streams in Alameda, Santa Clara and San Mateo Counties. Chinook Salmon are known to migrate up the Guadalupe River and Los Gatos Creek to spawn. Other fish species such as splittail, longfin smelt and striped bass have recently been found within the South San Francisco Bay, south of the Dumbarton Bridge. The BMP Assessment Project will benefit priority habitats and stressors of concern relating to these and other species.

The Lower South San Francisco Bay, within the Santa Clara Basin has been designated as an impaired waterbody under section 303(d) of the Clean Water Act. Concentrations of certain toxic pollutants exceed water quality criteria in this poorly flushed portion of the bay, and aquatic and riparian

habitats are in various states of degradation. Urbanization and its resulting impacts to riparian habitat has contributed to the degradation of some fish runs and drastic reductions in others.

The results of this project will provide information that can be used to directly benefit steelhead trout and chinook salmon by installation of mechanisms for improvement of water quality of non point discharges. Other fish species that are known to utilize the South Bay will benefit by improved water quality after installation of the BMP mechanisms.

Budget:

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|-------------------------------|----------------------------------|------------------|
| Task 1 | 30 monthly meetings | \$90,000 |
| Task 2 | Install Devices | 100,000 |
| Task 3 | Monitoring | 300,000 |
| Task 4 | Technical Assessment | 110,000 |
| | Draft Report Preparation | 25,000 |
| Task 5 | Final Report and Outreach | 45,000 |
| Project Management 10% | | 67,000 |
| | Total Project Cost | \$747,000 |

This project is will be a public private partnership between three public agencies in the South Bay watershed and The Silicon Valley Pollution Prevention Center, a 501(c)(3) Not for-Profit Corporation. In-kind contributions from the three public agencies will be in the form of both staff time and laboratory analysis, and will total approximately 40% of the Total Project Costs. The Silicon Valley Pollution Prevention Center will serve as facilitator and project manager.

Qualifications: The Silicon Valley Pollution Prevention Center is an organization which has been designed to bring Government, Industry and Environmental Advocacy Groups together in a neutral setting to facilitate agreement on pollution prevention methodologies, and thereby expedite implementation of programs which reduce or eliminate sources of toxic discharges to South San Francisco Bay. Its nine member Board of Directors, equally represented by these three sectors, annually adopts strategic projects which respond to the critical environmental issues facing the communities of Silicon Valley and the South San Francisco Bay Watershed. Mr. Patrick Ferraro, the Center's Executive Director, has over 25 years of experience in water issues facing the South Bay and the Bay Delta estuary. Other current related projects include Industrial Water Recycling, Agricultural Irrigation with recycled water, initial co-funder of the Brake Pad Partnership addressing a major source of copper discharged to the Bay, and convenor of the annual State of the South Bay Symposium. The Center is also a grant recipient of the California Integrated Waste Management Board.

Monitoring and Data Evaluation: The monitoring and data evaluation will use the protocol recently proposed by the Bay Area Stormwater Management Agencies Association (BASMAA). Sampling techniques will adhere to clean techniques developed to assure accuracy of sample analysis to allow for assessment of metal speciation using nanomolar concentrations. Monitoring data and analysis will receive peer review through the stakeholders represented on the steering committee.

Local Support & Coordination: This project has local support in the form of in-kind contributions by the City of San Jose, the San Jose-Santa Clara Water Pollution Control Plant, the Santa Clara Valley Water District and the Santa Clara Valley Transportation Authority. The program will be coordinated with the Santa Clara County Urban Runoff Pollution Prevention Program, BASMAA, and Caltrans, District 4, the San Francisco Bay Regional Water Quality Control Board, CA Department of Fish and Game, and Region IX USEPA, all of whom will be represented as stakeholders on the steering committee. A least three interested environmental advocacy groups will be invited to join the committee as well. This broad cross section of interest groups will be cognizant of the CALFED objectives to restore the health of the Bay Delta ecosystems and will help provide a key to understanding the effectiveness of the BMP devices to prevention of urban stormwater pollution.