



---

UNIVERSITY OF CALIFORNIA, SAN DIEGO

UCSD

---

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

---

2/19/2015

Submitted to:  
City of Los Angeles Department of Public Works

Submitted by:  
Julie Thomas, SCCOOS Executive Director  
Scripps Institution of Oceanography  
University of California, San Diego  
9500 Gilman Drive, Mail Code 0214  
La Jolla, CA 92093-0214  
(858) 534-3034  
[jthomas@ucsd.edu](mailto:jthomas@ucsd.edu)

For business issues (non-technical) related to the submittal of a purchase order:  
Kimberly Eaton, Contracts & Grants Specialist  
Integrative Oceanography Division (IOD)  
Scripps Institution of Oceanography  
University of California, San Diego  
9500 Gilman Drive, Mail Code 0209  
La Jolla, CA 92093-0213  
(858) 534-3567  
[kaeaton@ucsd.edu](mailto:kaeaton@ucsd.edu)

**PROPOSAL TITLE: City of Los Angeles Outfall Diversion- Web-Based Data Portal**  
**Period of Performance: 03/01/2015-03/01/2016**

**RE: Purchase Order for Services**

**Background**

The Hyperion Treatment Plant 5-Mile Outfall and associated Effluent Pumping Plant (EPP), were activated in 1960, and are critical components of the wastewater treatment system. The discharge from the Hyperion Treatment Plant is typically 300-350 million gallons per day, with a total estimated volume of discharge to approach 875 million gallons.

In November 2006, the Southern California Coastal Observing System (SCCOOS) developed a comprehensive project web site to provide up-to-date ocean environment information to assist coastal managers during the diversion. The Hyperion sewer discharge in Santa Monica Bay was diverted from the 5 mile pipe to the shorter One-Mile Outfall to allow inspection of the longer outfall pipe. Central to the execution of the event by the city's Environmental Monitoring

Division was an extensive monitoring plan designed to protect public health, comply with NPDES permit requirements, track effluent plume, and assess any environmental impacts. The website provided 24/7 environmental data support to the City of Los Angeles Environmental Monitoring Division during its diversion event. During the inspection of the 5-Mile Outfall and EPP, revealed that portions of the EPP are in need rehabilitation.

In order to perform the necessary repairs discovered during the 2006 inspection, chlorinated secondary-treated effluent will be temporarily diverted from the 5-Mile Outfall to the 1-Mile Outfall in the Fall 2015, for an estimated seven-week duration. In an effort to ensure maximum protection to public health and to measure and chronicle any impacts to the environment. Hyperion has requested data product support and web hosting from SCCOOS.

### **Statement of Work**

During the planned 2015 Hyperion Project, the SCCOOS data management team will develop a project page to support the diversion. A web portal will be developed to provide a centralized, interactive web presence for performers, decision makers, and the general public to access information and observations and play an integral role in a diversion monitoring program. Daily use of an online webpage that displays near real-time observations can help guide and adapt monitoring activities for making improved measurements in support of the diversion. The web portal will include visualization or links to background physical parameters such as wind, waves, currents, and temperature; daily summaries of monitoring efforts; and data products such as trajectories or models. Having access to these observations allows participants and program managers to make educated decisions regarding asset placement and go/no go field operations. If desired, the portal could have a participant only area to upload and disseminate data between performers that may not be publicly distributable, but would allow for scientific collaborations. Integrated information management systems are a critical tool to efficiently assess and manage observational programs and studies.

### **Quote**

Data ingestión/web portal development: February 1, 2015 through February 1, 2016	\$19,354
Indirect Costs at 55%:	\$10,645
<b>Total Costs:</b>	<b><u>\$30,000</u></b>

This is a quote based upon our best estimate of services. As a non-profit research division of a public university, costs will be billed based on the actual expenses incurred including all associated indirect costs.