

**UNIVERSITY OF CALIFORNIA SANTA CRUZ, MARINE SCIENCE CAMPUS COASTAL LONG
RANGE DEVELOPMENT PLAN**

2011 ANNUAL REPORT

January 2012

1 Introduction

Pursuant to Section 8.8 of the Coastal Long Range Development Plan (CLRDP), this annual CLRDP report includes a cumulative and calendar-year summary of the compliance of development projects authorized under the CLRDP with the terms and conditions of their authorizations; a description of development excluded from the development review procedures in Sections 8.1.4, 8.2 and 8.4 of the CLRDP by virtue of Section 8.3; authorizations for emergency development pursuant to Section 8.10; enforcement of the provisions of the CLRDP pursuant to Section 8.9; annual monitoring reports required under the CLRDP; the status of CLRDP-required improvements and other University commitments; and any comments received on CLRDP implementation.

A record of the CLRDP annual report is maintained in the offices of UCSC Physical Planning & Construction and is available for public review by appointment. A copy of the annual report will be submitted to the Executive Director of the California Coastal Commission.

2 Project Compliance

This section summarizes the compliance of development projects that were authorized under the CLRDP in 2011 with the terms and conditions of their authorization, and of continuing obligations from authorizations in previous years.

No development projects were authorized in 2011. In 2011, the Campus continued to comply with continuing obligations from one project that was authorized in 2009 and two projects that were authorized in 2010:

NOID 09-1, Outdoor Research Yard Expansion and Public Access Improvements. Authorized on September 9, 2009. The Coastal Commission determined that the proposed development project is consistent with the CLRDP, with the condition that the University submit Design Plans for the Caretakers' Units, Public Access Sign Plans, and Parking Plans to the Coastal Commission for review and approval prior to the beginning of construction. The University submitted the plans to the Coastal Commission on September 21, 2009, and the Coastal Commission approved the plans on November 2, 2009. Project construction was completed in 2010.

NOID 10-1, Public Access to and within the Younger Lagoon Reserve. Authorized on March 12, 2010. The Coastal Commission determined that the proposed development project is consistent with the CLRDP, with no conditions. The project is being implemented. NOID 10-1 requires that the public have access to Younger Lagoon Reserve beach through controlled visits, and that a monitoring program be created and implemented to document effect on native flora and fauna within Younger Lagoon and its beach. A report of activities carried out under NOID 10-1 in 2011, including results of the monitoring program, is included in Appendix B.

NOID 10-2, Younger Lagoon Reserve Terrace Lands Phase 1A Restoration. Authorized on September 15, 2010. The Coastal Commission determined that the proposed development project is consistent with the CLRDP, with no conditions. The project is being implemented. Activities carried out in 2011 under NOID 10-2 are described in Section 7.2, below.

3 Development Excluded from Development Review Procedures

This section describes development undertaken in 2011 that is excluded from the development review procedures in CLRDP sections 8.1.4, 8.2., and 8.4 by virtue of Section 8.3.

During 2011, the Campus developed one project, the Marine Mammal Pool Heating System Improvements, that was not subject to these development review procedures. The Marine Mammal Pool Heating System Improvements project added a 100-sf extension to an existing boiler utility shed to house a new, natural gas-fired boiler. An existing chemical storage shed was demolished to

accommodate the new construction. The boiler was installed to heat existing marine mammal pools to a warmer temperature than could be provided by the existing boiler, to meet the needs of ongoing research. The new boiler also provides heating system redundancy and flexibility for all of the existing mammal pools. The shed extension was designed to match the existing shed in height, form and materials.

The shed extension is located in Development Subarea 13. The Marine Mammal Pool Heating System Improvements project is excluded from the development review procedures cited above, under CLRDP section 8.3.B, which excludes improvements to existing structures, other than public works facilities. Consistent with the requirements of this section, the structure is not located in any of the environmentally sensitive areas listed in Section 8.3.B.1; does not include any significant alteration of landforms as described in Section 8.3.B.2; does not require the use of mechanized equipment within 50 feet of the top edge of a coastal bluff; does not increase the floor area or height of the seawater system infrastructure system in Development Subarea 13 by more than 10 percent, or above any maximum height and/or floor area requirements identified in the CLRDP; does not include the expansion or construction of water wells or septic systems; and does not change the intensity of use of the marine mammal pools.

4 Emergency Authorizations

This section describes development undertaken in 2011 pursuant to emergency authorizations by the UCSC Chancellor or the California Coastal Commission pursuant to CLRDP Section 8.10. No emergency authorizations were approved in 2011.

5 Enforcement

This section describes actions taken to enforce the provisions of the CLRDP and the Coastal Act which are enforceable pursuant to Chapter 9 of California Public Resources Code Division 20. No enforcement actions were taken in 2011.

6 CLRDP-Required Annual Monitoring Reports

The CLRDP requires the following annual monitoring reports:

- **Water Quality Report.** The annual water quality report is to be prepared following each storm season (typically post-April 15th) and the report completed by mid-summer. The annual water quality report for the 2010-11 storm season is presented in Appendix A of this document.
- **Resource Management Plan Reporting.** The Resource Management Plan (CLRDP Appendix A) requires the submission of annual reports of the results of monitoring activities provided for in the Specific Resource Plan (SRP) that will be prepared for each phase of habitat restoration. The second annual report, which covers monitoring activities carried out in FY2010-11, is presented in Appendix B of this document.

7 Status of University Commitments

This section summarizes the status of the capital improvements identified in CLRDP Chapter 9 and in other sections of the CLRDP, including measures to protect and enhance habitat, public access policies and procedures, and transportation demand management.

7.1 Capital Improvement Program

As a result of the unanticipated and unprecedented decline in revenue, and associated reductions in funding and staff time, over the past three years, the Campus has not been able to meet all of the schedule requirements of the CLRDP Capital Improvement Program. In an effort to comply with CLRDP Policy 1.2, which contains a provision that allows for relief of CLRDP requirements, the Campus has notified Commission staff of the manner in which the University proposes to remedy the defaults and proposed a schedule for monitoring and reporting progress on correcting the deficiency. That schedule is currently being reviewed by and discussed with Commission staff. Table 1 summarizes the status of the capital improvements identified in CLRDP Chapter 9, including the revised schedule proposed by the Campus.

Table 1
Status of Capital Improvements Required by the CLRDP

Category	Improvement	Status
<i>Public access improvements</i>	Trails	
	<i>Group 1</i>	Not triggered. No action taken in 2011.
	<i>Group 2</i>	Not triggered. No action taken in 2011.
	<i>Group 3</i>	Not triggered. No action taken in 2011.
	Overlooks	
	<i>Overlook A</i>	Campus submitted a notice of an impending NOID, that includes this improvement in February 2011. Campus is proposing to complete this improvement in 2012.
	<i>Overlook B</i>	Completed in 2010, under NOID 09-1.
	<i>Overlook C</i>	Campus submitted draft NOID 11-2, that includes this improvement, in February 2011. Campus is proposing to complete this improvement in 2012.
	<i>Overlook D</i>	Campus submitted a notice of an impending NOID, that includes this improvement in February 2011. Campus is proposing to complete this improvement in 2012.
	<i>Overlook E</i>	Campus submitted a notice of an impending NOID, that includes this improvement in February 2011. Campus is proposing to complete this improvement in 2012.
	<i>Overlook F</i>	Campus submitted a notice of an impending NOID, that includes this improvement in February 2011. Campus is proposing to complete this improvement in 2012.
	Parking	
	<i>Lower terrace public coastal access</i>	Campus has submitted a draft NOID to the Commission and received comments from Commission staff in December 2010. Campus is proposing to

Category	Improvement	Status
		complete construction in 2012.
	<i>Lower terrace dual use</i>	Campus has submitted a draft NOID to the Commission and received comments from Commission staff in December 2010. Campus is proposing to complete construction in 2012.
	<i>Middle terrace public coastal access</i>	No action required in 2011.
	<i>Campus Entrance</i>	No action required in 2011.
	<i>Updated signs and information-public access parking</i>	New signs were installed in 2011 as part of the Outdoor Research Yard Expansion and Public Access Improvements Project (NOID-09-1). Additional signs will be installed in conjunction with the designation of lower terrace public coastal access parking spaces.
	<i>Parking program</i>	Not triggered. No action required in 2011.
	<i>Identification of Access Facilities</i>	(CLRDP section 9.1.4) Informational signs are scattered throughout the site at public visitor destinations, showing public access trail map. Brochures about research activities, educational opportunities, planned events, and participation opportunities are available at the Seymour Center entry area, the Seymour Center administrative office, and at the Long Marine Lab main administrative office.
Habitat enhancements	Natural areas restoration	See Section 7.2, below.
	Remove/restore parking area west of McAllister Way	Campus is discussing a revised schedule for this improvement with Coastal Commission staff.
Circulation Improvements	Shaffer Rd. Improvements	No action taken in 2011.
	Realigned Main Campus Street	No action taken in 2011.
	Shaffer/Delaware Intersection	No action taken in 2011.
Drainage System Improvements	De Anza Mobile Home Park drainage pipe	No action taken in 2011.
	Outfall west of NOAA Outfall	No action taken in 2011.

Category	Improvement	Status
	west of NOAA	
	Middle terrace percolation trench and berm	No action taken in 2011.

7.2 Habitat Enhancement and Protection

On July 24, 2008 the University of California Natural Reserve System (UCNRS) and UCSC Campus Administration signed an agreement incorporating the approximately 47 ac (19 ha) of natural areas outside of the development zones on the Marine Science Campus into the University of California Natural Reserve System (UCNRS) as part of the Younger Lagoon Reserve (YLR). The agreement outlines the commitment by the NRS and campus to comply with restoration, management, and research on all YLR lands.

The Chancellor of UCSC appointed a Scientific Advisory Committee (SAC) to guide the creation of a Specific Resource Plan (SRP) on January 30, 2009. During 2009, Reserve staff drafted an SRP for Phase 1 of the restoration and management of the Terrace Lands, in consultation with the SAC and other technical professionals. The Campus submitted a NOID for the SRP Phase 1A, which was authorized by the Coastal Commission in September 2010.

Restoration activities were initiated in the Terrace area of YLR in 2009-10 and continued in 2010-11. The work was performed largely by undergraduate students and community volunteers. Reserve staff conducted weed patrols of the entire terrace, continued removing ice plant from the coastal bluffs, removed all Jubata grass re-sprouts from the terrace, removed all French Broom from the terrace, and removed all Cape Ivy from the west arm of the lagoon. In the summer and fall of 2010, reserve staff consulted with local experts to determine appropriate seed collection sites and collected seeds for restoration growing. These seeds were propagated at the UCSC Teaching Greenhouse and Arboretum in the fall and winter of 2010/2011. With the assistance of hundreds of volunteers and student interns, areas along the beach cliff formerly covered with ice plant continued to be planted with native seedlings. Upland areas adjacent to the beach cliffs were planted with native seedlings. As required by CLRDP Mitigation Measure 4.2.1, a 'living fence' consisting of native shrubs was planted along the north east boundary of the upper terrace lands. Baseline vegetation surveys of target areas in the Terrace area and local reference sites were conducted in the spring of 2011. The YLR annual report for FY2010-11 is included in this report as Appendix B.

7.3 Public Access Policies and Procedures

Consistent with the provisions of the CLRDP, the Marine Science Campus is open to the public during daylight hours. Access to the Marine Science Campus is free except that a fee is charged for admission to the Seymour Marine Discovery Center. Organized tours offer controlled access to some research areas, research buildings, and parts of the lagoon portion of the Younger Lagoon Reserve; these areas are otherwise not open to the public. All parking on the campus during 2011 was free and on a first-come-first-serve basis. The Seymour Center is open seven days a week during July and August and six days a week during the rest of the year.

Supervised site tours of parts of Long Marine Lab, as well as the Seymour Center exhibits halls and outdoor areas are offered three times a day on the days when the Seymour Center is open. Tours of marine mammal research areas are offered twice a month. The Seymour Center also offers a variety of field trips for K-12 school classes and community college groups, including hands-on lab activities.

Since 2010, the Reserve has offered 90-minute tours of Younger Lagoon twice a month. Access to other UC Natural Reserve areas on the terrace lands is not controlled at this time.

7.4 Transportation Demand Management

Santa Cruz Metropolitan Transit District (SMTD) UC Westside Route 20 bus provides hourly service weekdays from 7:30 a.m. until 8:30 p.m., and weekends from 8:30 a.m. until 8:30 p.m., to Delaware Avenue and Natural Bridges Drive. Supplemental bus service is provided on weekdays during the

school term to handle overload on this route. SMTD route 3 also serves the MSC with hourly service 7:10 p.m. to 6:10 p.m. to the west end of Delaware Avenue, adjacent to the campus entrance.

Through an agreement between the University and the SCMTD, students who display a valid UCSC ID card do not have to pay a fare to ride SCMTD buses. SCMTD service for students is funded through the Student Transit Fee. Faculty and staff may obtain a SCMTD bus pass for \$8.75 per month, or \$105 annually, which provides UCSC's Transportation and Parking Services (TAPS) with funding for payments to the SCMTD to accommodate faculty and staff transit ridership.

The Campus' Long Marine Lab Shuttle was discontinued in Fall 2009, as ridership levels continued to decline for the third year in a row. With a total ridership for 2008-09 of only 741 passengers, the cost of the shuttle was more than \$56 per ride, and the shuttle was determined not to be a cost effective means of reducing trips to the campus.

TAPS coordinates a vanpool program that is open to faculty, staff and students. Zimride, a Facebook-based application, provides ride matching (on a regular or occasional basis) to members of the UCSC community. TAPS also has several programs to support the use of bicycles as a means of transportation: classes on bicycle safety, free bicycle licensing, a no-interest bike loan program, an emergency-ride-home program, and bicycle maintenance and repair clinics on the main campus.

TAPS website provides detailed information about all of the Campus' alternative transportation programs and links to the SCMTD website.

7.5 Removal of Existing Non-Conforming Facilities

The temporary small-scale desalinization research facility in Subarea #13 was converted into a fenced outdoor research yard under NOID 09-1, in 2010. The Campus has not yet taken action to remove the existing non-conforming greenhouses and ground-level storage area in Subareas #6 and #7.

7.6 CLRDP EIR Mitigation Monitoring Program

The CLRDP EIR Annual Mitigation Monitoring Report is presented in Appendix C.

8 Comments Received on CLRDP Implementation

No comments on implementation of the CLRDP were received in 2011.

Appendices

Appendix A: Annual Water Quality Report

Appendix B: Younger Lagoon Reserve Annual Report

Appendix C: Annual Mitigation Monitoring Report

Appendix A
Annual Water Quality Report

UC SANTA CRUZ, COASTAL LONG RANGE DEVELOPMENT PLAN

2011 ANNUAL WATER QUALITY REPORT

January 2012

1 Introduction

As specified in Section B.6.3 of the UC Santa Cruz Coastal Long Range Development Plan (CLRDP), this annual water quality report includes: 1) the results of the Drainage Monitoring and Maintenance Program described in Fig. B.22 of the CLRDP; 2) the results of any individual water quality monitoring requirements emanating from individual development projects; 3) any monitoring or other related information applicable to other Campus discharges (such as NPDES requirements associated with seawater discharges); 4) recommendations for any modifications to Campus drainage system components that are necessary to achieve CLRDP water quality performance standards.

The annual water quality report is prepared following each storm season (typically post-April 15th) and the report completed by mid-summer to allow any necessary changes to be implemented prior to the next storm season (i.e., by October 15th). Annual water quality reports are maintained in the offices of UC Santa Cruz Physical Planning and Construction, and are available for public review and shall be made readily available to researchers investigating the performance of water quality “best management practices” (BMPs).

2 Drainage Monitoring and Maintenance Program

This section summarizes the results of the Drainage Monitoring and Maintenance Program, including the assessment of source control BMP efficacy and the required monitoring and maintenance for treatment BMPs. The Drainage Monitoring and Maintenance Program includes monitoring and maintenance requirements for source control BMPs and treatment BMPs.

2.1.1 Source Control BMPs

Table 1 summarizes the results of the Campus’ annual assessment of source control BMPs, as specified in Section B.6.1 of the CLRDP.

Table 1

Annual Assessment of Source Control BMPs

Minimum Performance Standard	Status
That the Campus is providing adequate and convenient means for the recycling/disposal of commercial and household hazardous wastes. The performance standard to be achieved is that all commercial and household hazardous wastes that can be recycled are being recycled, and that all such wastes that cannot be recycled are being properly disposed of.	Currently, the caretaker’s residence is the only residence on the Marine Science Campus. All campus employees who handle hazardous are required to attend hazardous waste training sessions and to follow the hazardous waste handling procedures established by UCSC Environmental Health and Safety. (EH&S) collects all hazardous wastes generated on the campus for proper disposal. EH&S maintains online recycling and disposal guidelines that help members of the campus community identify which materials can be recycled and

UCSC CLRDP, 2011 Annual Water Quality Report

January 2012

Minimum Performance Standard	Status
	which must be disposed of as hazardous waste. A recycling bin for used batteries is kept in the Center for Ocean Health mail room.
<p>That less toxic alternatives to commercial and household hazardous chemicals (such as lubricants, pesticides, solvents, acids, alkalis and paints) are being used where possible, and that all such chemicals are appropriately stored and sparingly used. The performance standard to be achieved is that all commercial and household hazardous chemicals are stored in a manner designed to contain all spills, that information on less-toxic alternatives has been provided to potential Campus users, and that chemicals are used sparingly, per their intended application, and in a manner designed to minimize the potential for such chemicals to be applied outside target application areas.</p>	<p>Updates and educational outreach regarding the evolving universal waste programs are provided during laboratory safety meetings, waste generator training classes, a poster at the Campus Earth Summit, and a booth and poster at the Staff Picnic. Hazardous waste training classes are routinely offered and focus on the UCSC Waste Management website, where training participants learn how to navigate the site, find and use the fact sheets and the waste minimization webpage, hazardous waste determination and classification guidelines, the online hazardous waste tracking system, a new recycling and disposal guide, and a link to the Green Alternatives Wizard, a database that provides information on alternatives to hazardous chemicals or processes.</p>
<p>That all roads, parking lots, and other paved surfaces are being vacuum swept with a regenerative-air sweeper designed to control litter, dust, dirt, and other potential pollutants to the maximum extent feasible. The performance standard to be achieved is that all paved surfaces are vacuum swept at least one time per month and that all regenerative-air sweepers used are maintained in good working order per the manufacture's recommendations.</p>	<p>During the 2010-11 storm season, the roads, parking lots and paved surfaces were cleaned with a mechanical street sweeper. A regenerative air type sweeper has not been available for maintenance operations. Not all areas were swept on a monthly basis. Sweeping schedules have been updated and street sweeping frequency will be increased as resources allow.</p>
<p>That all landscaping uses native plants with low nutrient, water, and pesticide/rodenticide requirements. The performance standard to be achieved is that all Campus landscaping meets this criterion.</p>	<p>Landscaping was installed in conjunction with the improvements to Overlook B, which were implemented in 2010 under NOID 09-1. As documented in the NOID project report, the plantings for this project consisted of native, low-water-use plants. No other new landscaping was installed in conjunction with development projects on the Marine Science Campus in 2011.</p>
<p>That the University is providing Marine Science Campus users with convenient recycling and yard waste programs, and that Campus users are fully utilizing the University's recycling and yard waste programs. The performance standard to be achieved is that 100 percent of recyclable materials are recycled and that 100 percent of yard wastes are mulched/reused.</p>	<p>Mixed recycling containers are staged at the Center for Ocean Health, Seymour Marine Discovery Center, the Boat Yard, the green house area and at the California Fish & Game Facility for oiled wildlife. All of these facilities also have centralized indoor office paper recycling centers, generally in the copy rooms. Two cardboard dumpsters service the same group of facilities. Additionally, yard waste is put into cubic yard carts that are emptied into a large debris box that is green-wasted at the</p>

January 2012

Minimum Performance Standard	Status
	City Recycle Center. Finally, Physical Plant provides a separate debris box for all Natural Reserve and Site Stewardship 'yard waste'.
That Campus users are educated regarding the nature of urban runoff pollutants and means of limiting pollutant generation. The performance standard to be achieved is that the University has developed a water quality and runoff educational program (including educational hand-outs and other materials), that that program meets current professional standards for such education programs, and that the University has provided educational materials and other educational programs (i.e., presentations, videos, etc.) to each Campus user (UCSC, Campus-affiliates, visitors, other site users, etc.).	There are currently no private residences on the campus. The Marine Science Campus is included in the Campus Storm Water Management Plan (SWMP), which was approved by the Regional Water Quality Control Board in April 2009. The development of the SWMP has been announced to the campus community in UCSC Currents and is accessible from the main campus or EH&S webpages. An email address has been established to facilitate contact with the storm water program and to relay questions or issues. Key personnel whose responsibilities include activities that potentially could have a significant impact on storm water quality have received storm water awareness training. Storm Water Quality education and outreach was provided through a booth and poster display featured at the annual staff picnic. The Storm Water Management Plan details campus community education and outreach programs and their development schedule.

2.1.2 Treatment BMPs

No treatment BMPs have been installed since the CLRDP was approved.

3 Project Water Quality Monitoring

This section describes the results of any individual water quality monitoring requirements emanating from individual development projects. There were no individual water quality monitoring requirements emanating from individual development projects in 2011.

4 Monitoring Applicable to Other Campus Discharges

This section describes monitoring or other related information applicable to other Campus discharges (such as NPDES requirements associated with seawater discharges). Discharges of seawater from the Campus are subject to the monitoring requirements of the General Permit for Discharges from Aquaculture and Aquariums (NPDES Permit No. CAG993003). A copy of the 2011 Annual Report and Fourth Quarter Monitoring Report is attached. For all four monitoring periods of 2011 the Long Marine Lab discharge was in full compliance in all aspects of the permit.

5 Recommendations

This section presents recommendations for any modifications to Campus drainage system components that are necessary to achieve CLRDP water quality performance standards. No new development projects were completed in 2011, and no drainage system components have been constructed under the CLRDP.

UCSC CLRDP, 2011 Annual Water Quality Report

January 2012

Attachment: Long Marine Laboratory Annual Report 2011, NPDES General Permit No.CAG993003, and Monitoring and Reporting Program No. R3-2008-0059.

Fourth Quarter, 2011
Sample Date: December 12, 2011

California Regional Water Quality Control Board
Central Coast Region
Attn: Monitoring and Reporting Review Section
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

Dear Mr. Briggs:

Facility Name: Long Marine Laboratory
University of California Santa Cruz

Address: 100 Shaffer Road
Santa Cruz, CA 95060

Contact Person: Steve Davenport
Job Title: Assistant Director
Phone Number: (831) 459-4771

WDR/NPDES Order Number: Gen Permit No. CAG993003, Order No. R3-2008-0059

Types of Report (circle all): Monthly Quarterly Semi-Annual Annual

Month(s) (circle applicable months*): JAN FEB MAR APR MAY JUN
JUL AUG SEP OCT NOV DEC

*Annual Reports (circle the first month of the reporting period)

Year: 2011

Violation(s) (Place an X by the appropriate choice): X
_____ No (there are no violations to report) _____ Yes

If Yes is marked (complete a-g):

a) Parameter(s) in Violation:

b) Section(s) of WDR/NPDES Violated:

c) Reported Value(s)

**d) WDR/NPDES
Limit/Condition:**

e) Dates of Violation(s)
(reference page of report/data sheet):

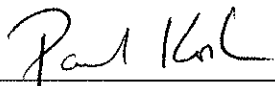
f) Explanation of Cause(s):
(attach additional information as needed)

g) Corrective Action(s):
(attach additional information as needed)

In accordance with the Standard Provisions and Reporting Requirements, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,



Signature

Printed Name Paul Koch

Title Dean, Division of Physical and
 Biological Sciences
 UC Santa Cruz



JOSEPH M. LONG MARINE LABORATORY
INSTITUTE OF MARINE SCIENCES
UNIVERSITY OF CALIFORNIA, SANTA CRUZ
100 SHAFFER RD. | SANTA CRUZ, CALIFORNIA 95060
831/459-2883 | 831/459-3383 FAX

January 10, 2012

Roger Briggs, Executive Officer
California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

Long Marine Laboratory
Annual Report 2011 &
Fourth Quarter Monitoring Report

Dear Mr. Briggs:

Please accept this letter and attachments in satisfaction of our Annual Report requirement for 2011 and Monitoring Report for the fourth quarter 2011 in accordance with the requirements of our General Permit No. CAG993003, and Monitoring and Reporting Program No. R3-2008-0059. Included is a one-page tabular summary of the sample analysis results by constituent for the individual quarters of the year. Also included is a one-page summary of results and observations for the fourth quarter, along with the quantitative chemical analysis report from Soil Control Lab, an analytical laboratory approved by the State of California. Should you need to see our field notes from the sampling and observations or the chain-of-custody document for the samples taken for analysis, please let me know--I will retain that detailed background information in files at Long Marine Laboratory.

The following statements are intended to satisfy specific requirements of our permit for annual reporting:
1) For 2011 the Long Marine Lab chemical analysis of the sampled discharge indicated full compliance with the permit. No corrective actions are indicated. 2) The name of the laboratory that we used to analyze discharge samples is: Soil Control Lab, a division of Control Laboratories Inc., 42 Hangar Way, Watsonville, California 95076.

Respectfully submitted,

A handwritten signature in blue ink, reading "S. L. Davenport". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Stephen L. Davenport
Assistant Director

Cc: Paul Koch, Interim Dean
UCSC Physical and Biological Sciences

Steve Lindley, Director
Santa Cruz Laboratory
NOAA Fisheries

Laird Henkel, Director
Marine Wildlife Center
Calif. Dept. Fish and Game

LONG MARINE LABORATORY				
QUARTERLY DISCHARGE REPORT				
	Sample Date: December 12, 2011			
Influent Monitoring/Analysis				
Total Suspended Solids (mg/L)		9.0		
pH (pH Units)		7.8		
Turbidity (NTU)		2.8		
Temperature (degrees C)		12.0		
Effluent Monitoring/Analysis				
Estimated Outflow (MGD)		1.0		
Settleable Solids (mL/L)		ND		
Total Suspended Solids (mg/L)		1.7		
Turbidity (NTU)		1.1		
pH (pH Units)		7.8		
Temperature (degrees C)		12.0		
Grease & Oil (mg/L)		ND		
Receiving Water Observations				
	Station RSW-1 100' upcoast		Station RSW-2 100' downcoast	
Floating or suspended matter	absent		absent	
Discoloration	absent		absent	
Visible films, sheens, coatings	absent		absent	
Fungi, slimes, objectionable growths	absent		absent	
Potential nuisance conditions	absent		absent	
Receiving water was observed from the blufftop directly over the point of discharge				
Receiving water appearance: Normal, some kelp and sand				
Weather, Wind, Wave Conditions: Wind west 5 Kts, Swell west 4 feet, overcast sky				
Chemical Usage				
<p>Hypochlorite solution in the form of household bleach is used for routine pool and tank cleaning on a weekly basis, and hypochlorite solution generated by electrolysis from seawater is added to recirculating seawater in marine mammal pools to maintain a maximum residual of 0.5 ppm on a continuous basis. In either case, as this chlorinated water is added to the discharge stream it is diluted significantly with non-chlorinated seawater effluent, and de-chlorinated with liquid sodium bisulfite solution when necessary to meet limits at the point of discharge to the ocean.</p> <p>We certify that we have not added substances to the waste stream that are listed in Table B of the California Ocean Plan or 40 CFR Section 131.38 with the exception of residual chlorine as noted above.</p>				
Exotic Species				
We are not aware of the presence of any exotic species listed in CCR Title 14, Section 245, or referenced in Part a.8 of same. Therefore, no internal or CDFG inspections were made for this report period.				
Notes				
Influent sample location: primary seawater system inlet manifold to sand filters				
Effluent sample location: last manhole in discharge line at ocean bluff				
Outflow estimates are dry weather flows based on metering of produced intake seawater				
Temperature measurements, visual observations and samples drawn by Randolph Skrovan				
Chemical analysis performed by Soil Control Lab				

	LONG MARINE LABORATORY			
	ANNUAL DISCHARGE REPORT SUMMARY 2011			
	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Effluent Analysis				
Estimated Flow (MGD)	0.9	1.0	1.1	1.0
Settleable Solids (mg/L)	ND	ND	ND	ND
Total Suspended Solids (mg/L)	ND	ND	ND	1.7
Turbidity (NTU)	4.2	0.6	1.1	1.1
pH Value (units)	7.9	7.9	7.9	7.8
Temperature (degrees C)	13.0	15.0	17.3	12.0
Grease & Oil (mg/L)	ND	ND	ND	ND
Influent Analysis				
Total Suspended Solids (mg/L)	8.4	5.2	5.6	9.0
pH Value (units)	7.8	7.8	8.0	7.8
Turbidity (NTU)	0.7	3.2	3.6	2.8
Temperature (degrees C)	13.5	15.0	16.0	12.0

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422
FAX: 831-724-3188

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

UCSC Long Marine Lab
100 Shaffer Rd
Santa Cruz, CA 95060
Attn: Steve Davenport

Work Order #: 1120375
Reporting Date: January 8, 2012

Date Received: December 12, 2011
Project # / Name: None / LML Ocean Discharge Monitoring
Sample Identification: Influent / Grab, sampled 12/12/2011 3:00:00PM
Sampler Name / Co.: Randolph Skrovon / UCSC Long Marine Lab
Matrix: Water
Laboratory #: 1120375-01

	<u>Results</u>	<u>Units</u>	<u>RL</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>	<u>Flags</u>
pH	7.8	pH Units	0.1	SM4500-H+ B	12/12/11	
Turbidity	2.8	NTU	0.10	SM 2130B	12/12/11	
Total Suspended Solids	9.0	mg/L	1.2	SM 2540D	12/14/11	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Mike Galloway

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

UCSC Long Marine Lab
100 Shaffer Rd
Santa Cruz, CA 95060
Attn: Steve Davenport

Work Order #: 1120375
Reporting Date: January 8, 2012

Date Received: December 12, 2011
Project # / Name: None / LML Ocean Discharge Monitoring
Sample Identification: Effluent / Grab, sampled 12/12/2011 3:05:00PM
Sampler Name / Co.: Randolph Skrovon / UCSC Long Marine Lab
Matrix: Water
Laboratory #: 1120375-02

	Results	Units	RL	Analysis Method	Date Analyzed	Flags
pH	7.8	pH Units	0.1	SM4500-H+ B	12/12/11	
Oil & Grease (total)	ND	mg/L	5.0	EPA 1664	01/05/12	
Turbidity	1.1	NTU	0.10	SM 2130B	12/12/11	
Total Settleable Solids	ND	mL/L	0.10	SM2540F	12/13/11	
Total Suspended Solids	1.7	mg/L	1.2	SM 2540D	12/14/11	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

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Work Order #: 1120375
Reporting Date: January 8, 2012

*** DEFAULT GENERAL METHOD *** - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PA20026 - Default Prep GenChem											
Blank (PA20026-BLK1)					Prepared & Analyzed: 05-Jan-12						
Oil & Grease (total)	ND		5.0	mg/L							
Duplicate (PA20026-Dup1)					Source: 1120449-02 Prepared & Analyzed: 05-Jan-12						
Oil & Grease (total)	ND		5.0	mg/L		ND				20	
Reference (PA20026-SRM1)					Prepared & Analyzed: 05-Jan-12						
Oil & Grease (total)	39.10		5.0	mg/L	41.0		95.5	80-120			

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Mike Galloway

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USA

UCSC Long Marine Lab
100 Shaffer Rd
Santa Cruz, CA 95060
Attn: Steve Davenport

Work Order #: 1120375
Reporting Date: January 8, 2012

Classical Chemistry Parameters - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PL10122 - Default Prep GenChem											
Duplicate (PL10122-Dup1)			Source: 1120347-01			Prepared & Analyzed: 12-Dec-11					
pH	7.41		0.1	pH Units		7.35			0.813	20	
Reference (PL10122-SRM1)			Prepared & Analyzed: 12-Dec-11								
pH	6.89		0.1	pH Units		7.22	95.4	80-120			
Batch PL10128 - Default Prep GenChem											
Blank (PL10128-BLK1)			Prepared & Analyzed: 12-Dec-11								
Turbidity	ND		0.10	NTU							
Duplicate (PL10128-Dup1)			Source: 1120375-01			Prepared & Analyzed: 12-Dec-11					
Turbidity	2.900		0.10	NTU		2.800			3.51	20	
Batch PL10147 - Default Prep GenChem											
Blank (PL10147-BLK1)			Prepared & Analyzed: 14-Dec-11								
Total Suspended Solids	ND		2.0	mg/L							
Duplicate (PL10147-Dup1)			Source: 1120241-01			Prepared & Analyzed: 14-Dec-11					
Total Suspended Solids	118.2		45	mg/L		115.0			2.73	20	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Mike Galloway

Appendix B
Younger Lagoon Reserve Annual Report
(bound separately)



PHYSICAL & BIOLOGICAL SCIENCES DIVISION – NATURAL RESERVE SYSTEM

SANTA CRUZ, CALIFORNIA 95064

Susan Craig and Dan Carl
California Coastal Commission
Santa Cruz, CA

January 10, 2011

Dear Susan and Dan,

I hope you are both well. Along with this letter we have included annual reports that summarize work conducted at Younger Lagoon Reserve during fiscal year 2010-2011. There are two reports:

- 1) Our annual Younger Lagoon Report
- 2) The annual monitoring report as per the CLRDP requirements for beach access

Combined, the two reports provide a thorough update of the year's activities. Overall, it was another great year on all fronts. Research and education use continued to increase and we have made significant strides in implementing restoration of the Terrace Lands. Following the mission of the UC Natural Reserve System, we have incorporated faculty and students into all aspects of the restoration and are learning a great deal about restoration techniques and coastal upland communities in general. The Scientific Advisory Committee continued to provide guidance and comments on restoration strategies and targets, reports, and overall goals and objectives.

If you have any questions at all please do not hesitate to contact me. Additionally, if you or any of your staff would like to come to the reserve for a walk and talk to learn more about what we are working on just let me know, we would be more than happy to spend as much time as you would like

Yours sincerely,


Gage Dayton
Director, UCSC Natural Reserves

Cc: Paul Koch, UCSC, Dean of Physical and Biological Sciences
Karen Holl, UCSC, Faculty Director, Younger Lagoon Reserve
Dean Fitch, UCSC, Director of Campus Planning
Elizabeth Howard, Younger Lagoon Reserve Manager

Appendix C
Annual Mitigation Monitoring Report

UC Santa Cruz Marine Science Campus CLRDP EIR 2011 Annual Mitigation Monitoring Report

Introduction

The California Environmental Quality Act (CEQA) requires that a Lead Agency establish a program to monitor or report on mitigation measures adopted as part of the environmental review process to avoid or reduce the severity and magnitude of potentially significant environmental impacts associated with project implementation. CEQA (Public Resources Code Section 21081.6 (a) (1)) requires that a mitigation monitoring or reporting program be adopted at the time that the agency determines to carry out a project for which an EIR has been prepared to ensure that mitigation measures identified in the EIR are implemented.

The Regents of the University of California (The Regents) approved the Coastal Long Range Development Plan (CLRDP) for the UC Santa Cruz Marine Science Campus and certified the Environmental Impact Report (EIR) in September 2004; a Mitigation Monitoring Program (MMP) for the CLRDP EIR was adopted at the same time. The CLRDP MMP, which is presented in Table 5-1 of the Final EIR, describes monitoring and reporting procedures, monitoring responsibilities, and monitoring schedules for mitigation measures identified in the EIR analysis of the environmental effects of the CLRDP, as well as the measures included in the CLRDP to avoid or minimize environmental effects. Table 5-1 is divided into two sections: Part A describes procedures for the EIR mitigation measures; Part B covers the CLRDP measures.

The MMP includes the following components:

Mitigation Measures: The mitigation measures in the MMP are taken verbatim from the Final EIR, and the numbers assigned the mitigation measures are the same as those presented in the Final EIR.

CLRDP Measures: Individual CLRDP policies and implementation measures in the MMP are taken verbatim from the CLRDP, and the numbers assigned the mitigation measures are the same as those presented in the CLRDP. Other CLRDP measures in the MMP, such as the Drainage Concept Plan, Resource Management Plan, and the Design Guidelines, are summarized.¹

General versus Project-Specific Measures: The MMP specifies whether the mitigation measure or CLRDP element is a general Campus measure, which is implemented by the Campus on an ongoing basis, or a Project-Specific measure, which is triggered by and implemented in conjunction with the development of individual projects.

¹ After The Regents certified the CLRDP EIR, approved the September 2004 draft of the CLRDP and adopted the MMP, minor changes were made to the text and numbering of some of the CLRDP measures included in the MMP. The title of Appendix B to the CLRDP, "Stormwater Concept Plan," was also changed to "Drainage Concept Plan." The Regents approved the final CLRDP, including these changes, in December 2008. In this Annual Report, the text and numbering of the CLRDP measures are consistent with the December 2008 final CLRDP and therefore may differ from the MMP as presented in the Final EIR.

Mitigation Timing: Identifies the timing for implementation of each action.

Monitoring and Reporting Responsibility: Identifies the UCSC office responsible for undertaking the required action and monitoring the measure.

As indicated above, the measures included in the MMP are divided into two categories: *general campus measures*, which are implemented by the campus on an ongoing basis, and *project-specific measures*, which are implemented in conjunction with the development of individual campus construction projects. Examples of general campus mitigation measures are: 1) public access policies, and 2) the Campus' transportation demand management (TDM) program, which is designed to reduce the number of vehicle trips to the campus. Examples of project-specific mitigation measures are: 1) the protection of specific biotic resources or cultural resources during construction of a building, and 2) siting and design parameters for new development. In addition to project-specific measures identified in the CLRDP EIR, the mitigation monitoring program for a development project may also include mitigation measures identified in the project-level CEQA document, which apply only to that project.

Monitoring and Reporting Procedures

The responsibilities of mitigation implementation, monitoring and reporting extend to numerous UC Santa Cruz departments and offices. The unit director or department lead officer of the identified unit or department is directly responsible for ensuring that the responsible party complies with the mitigation. Physical Planning and Construction is responsible for the overall administration of the program and for assisting other campus staff with their responsibilities, to ensure that they understand their charge and implement the required measures accurately, completely, and on schedule.

In addition to overseeing the specific procedures identified in the following table for implementation of each mitigation measure, Physical Planning and Construction is responsible for preparing this Annual Mitigation Monitoring Report. The purpose of the Annual Mitigation Monitoring Report is to report on progress of implementation of general campus mitigation measures (that is, those measures that are not tied to specific development projects) and, for each project under development during the preceding period, to identify applicable mitigation measures and document the status of compliance for each project. The Annual Mitigation Monitoring Report is available for review by appointment at the office of Physical Planning and Construction on campus, is posted on the Campus' LRDP website (<http://lrpd.ucsc.edu/>), and is submitted to the Executive Director of the California Coastal Commission as part of the CLRDP Annual Report.

For each general campus measure, a representative of the responsible campus unit provides an annual status report to Physical Planning and Construction staff. For each project, a checklist is prepared for all CLRDP EIR and project-level mitigations applicable to the project. Reporting on the status of project-specific mitigations is the responsibility of each project manager, who updates the checklist on a quarterly basis.

The annual report also provides a description of activity undertaken by each responsible department relative to each mitigation measure and, if applicable, links to detailed reports or other supporting documentation of mitigation activity.

Summary of 2011 Mitigation Activities

General Campus Mitigation Measures

Table 1, *Status of General Campus Measures*, lists all of the general campus measures and describes their status for the 2011 reporting year (January through December, 2011).

Project Mitigation Monitoring

In 2011, the Campus implemented the mitigation monitoring program for NOID-10-2, Specific Resource Plan Phase 1A. The annual mitigation monitoring report for this project is attached.

UC Santa Cruz Coastal Long Range Development Plan
 2011 Annual Mitigation Monitoring Report
 Table 1: Status of General Campus Measures

Mitigation/ Implementation Measure ID	Mitigation/Implementation Measure Description	Procedures and Timing	Notes	2011 Status
Mitigation 4.2-1	Install landscaped fence along Younger Ranch property line.	Install fence and landscaping. Prior to ground-breaking of any CLRDP project components, document that fence and landscaping have been installed prior to construction.	--	Fence has been constructed.
Mitigation 4.15-1	Contribute fair share towards cost of improvements to Mission/Bay intersection	During project-level environmental review, analyze number of peak hour trips added to this intersection by the project. When City and/or Caltrans proposes improvement at this intersection: Negotiate with City and Caltrans to determine an appropriate fair share contribution towards necessary road improvements.	Per 2008 Comprehensive Settlement Agreement, UCSC share of the cost of City intersection improvements will be paid on a project-by-project basis based on the number of trips projected to be generated by each project.	Not triggered. No trip-generating projects have been approved under the CLRDP.
Mitigation 4.15-2	Contributed fair share towards construction of Delaware Ave. pedestrian path.	Prior to occupancy of first project: Negotiate with City to determine an appropriate fair share contribution towards necessary road improvements.	--	Not triggered. No trip-generating projects have been approved under the CLRDP.
Mitigation 4.15-4	Contribute fair share to improvements at Mission/Chestnut intersection	During project-level environmental review, analyze number of peak hour trips added to this intersection by the project. When City and/or Caltrans proposes improvement at this intersection: Negotiate with City and Caltrans to determine an appropriate fair share contribution towards necessary road improvements.	Per 2008 Comprehensive Settlement Agreement, UCSC share of the cost of City intersection improvements will be paid on a project-by-project basis based on the number of trips projected to be generated by each project.	Not triggered. No trip-generating projects have been approved under the CLRDP.

UC Santa Cruz Coastal Long Range Development Plan
 2011 Annual Mitigation Monitoring Report
 Table 1: Status of General Campus Measures

Mitigation/ Implementation Measure ID	Mitigation/Implementation Measure Description	Procedures and Timing	Notes	2011 Status
Mitigation 4.15-6	Contribute fair share to improvements at High/Western, Empire Grade/Heller, SR1/SR intersections	During project-level environmental review, analyze number of peak hour trips added to these intersections by each project. When appropriate jurisdiction proposes improvements at the affected intersection: Negotiate with appropriate jurisdiction to determine an appropriate fair share contribution towards necessary road improvements.	Per 2008 Comprehensive Settlement Agreement, UCSC share of the cost of City intersection improvements will be paid on a project-by-project basis based on the number of trips projected to be generated by each project.	Not triggered. No trip-generating projects have been approved under the CLRDP.
Mitigation 4.16-1b	Compliance with City water demand reduction policies	Following the adoption of pertinent policies by the City of Santa Cruz. Procedure to be determined, based on City policy.	Note: Per 2008 Comprehensive Settlement Agreement, if City implements its 2009 Drought Contingency Plan, University will reduce water consumption in accordance with that plan.	Not triggered in 2011.
IM 3.8.2	Agricultural hold-harmless and indemnity restrictions	Before construction of facilities located north of existing NMFS facility: Initiate negotiations with owners of Younger Ranch to enter into agreement.	--	Not triggered. No development north of existing NMFS facility has been approved.
General-RMP	Implement RMP	As specified in Table 13 of the Resource Management Plan: Implement monitoring procedures specified in Tables 1, 4, 5, 6, 7, 8, 11, and 12 of the Resource Management Plan. Document results and include documentation in annual mitigation monitoring report.	--	See CLRDP Annual Report for status of RMP.

UC Santa Cruz Coastal Long Range Development Plan
 2011 Annual Mitigation Monitoring Report
 Table 1: Status of General Campus Measures

Mitigation/ Implementation Measure ID	Mitigation/Implementation Measure Description	Procedures and Timing	Notes	2011 Status
IM 3.5.1	Protection and enhancement of YLR habitats.	Implement Resource Management Plan (see above for procedures). Implement Drainage Concept Plan (see Hydrology and Water Quality, below, for procedures). Control and remove weeds, plant native plants	--	See CLRDP Annual Report for status of RMP.
IM 3.5.2	Protection of special status species in YLR.	Implement Resource Management Plan (see above for procedures). Implement EIR Mitigations PS 4.4.1, PS 4.4.2 and PS 4.4.3 (see Table 5-1, Part A)	--	See CLRDP Annual Report for status of RMP.
IM 3.6.1	Provision of controlled access within YLR.	See IM 6.2.1 under Recreation, below. No additional procedures required.	--	NA
IM 3.10.1	EH&S manage use, containment and cleanup of hazardous materials and petroleum	Ongoing: For UC entities, continue to implement UCSC Environmental Health and Safety programs involving oversight of individual units' compliance efforts and advising on improvements in procedures related to storage, disposal, and transportation of hazardous substances. Annually: Document activity of relevant Environmental Health and Safety programs. For non-UC entities, see EIR Mitigation PS 4.7-1 (see Table 5-1, Part A)	--	UCSC EH&S provides guidelines, consultation and oversight to ensure hazardous materials are stored, transported and disposed in accordance with federal and state regulations. Personnel are trained to call EH&S for assistance if there is a large spill of hazardous materials or if they are not equipped to clean up a small spill safely. Spill emergency instructions are posted in areas where hazardous materials are stored or used. (Source: Dan Blunk, EH&S)

UC Santa Cruz Coastal Long Range Development Plan
 2011 Annual Mitigation Monitoring Report
 Table 1: Status of General Campus Measures

Mitigation/ Implementation Measure ID	Mitigation/Implementation Measure Description	Procedures and Timing	Notes	2011 Status
Drainage Concept Plan- General	Implement BMPS in Drainage Concept Plan	Annually: Document implementation of best management practices.	--	No projects with new impervious surface have been constructed so no treatment BMPs are in place. The campus implements source control BMPs on an ongoing basis. See CLRDP Annual Report, Appendix A, Water Quality Report, for details.
Water Quality Monitoring	Sample stormwater as specified in Drainage Concept Plan	As specified in the Drainage Concept Plan (procedures and timing in the MMP are from the Draft CLRDP and no longer apply).	--	Not triggered. Storm water sampling will be required after treatment BMPs have been installed.
Maintain stormwater system	Maintain storm water system as specified in Drainage Concept Plan	As specified in the Drainage Concept Plan (procedures and timing in the MMP are from the Draft CLRDP and no longer apply).	--	Not triggered. No development projects have been constructed under the CLRDP.
IM 7.1.8	Irrigation and use of chemicals for landscaping.	Before occupancy of first project developed under the CLRDP: Establish policies for irrigation and use of chemicals in landscaping to minimize erosion potential and runoff into habitat areas or the ocean.	--	The Campus currently uses pesticides only within the context of an Integrated Pest Management Program, to limit the use of chemicals for fertilizer and/or weed and pest control to the maximum extent possible.
IM 7.2.1	Drainage system monitoring and maintenance.	After major storm events, during occupancy: Conduct and document inspections.	--	Not triggered. No treatment BMPs are in place.
IM 6.1.1	Free public access for visitors.	Annually, following approval of the CLRDP: Document consistency of procedures with Policy 6.1.	--	Access to the Marine Science Campus is free. A fee is charged for access to the Seymour Center.
IM 6.1.4	Public access overlooks.	Construct overlooks per schedule in CLRDP Chapter 9. Annually, document status.	--	See CLRDP Annual Report, Section 7.1.

UC Santa Cruz Coastal Long Range Development Plan
 2011 Annual Mitigation Monitoring Report
 Table 1: Status of General Campus Measures

Mitigation/ Implementation Measure ID	Mitigation/Implementation Measure Description	Procedures and Timing	Notes	2011 Status
IM 6.1.5	Docent-led tours and education programs for the public.	Annually: Document continued educational programs and docent-led tours.	--	Supervised site tours of parts of Long Marine Lab, as well as the Seymour Center exhibits halls and outdoor areas are offered three times a day on the days when the Seymour Center is open. Tours of marine mammal research areas are offered twice a month. The Seymour Center also offers a variety of field trips for K-12 and community college groups.
IM 6.2.3	Access to resource protection areas.	Annually: Document access policies and procedures. Ongoing: Enforce access policies.	--	Public access to Younger Lagoon is limited to 90-minute tours, which are offered twice a month. Access to other resource protection areas is not controlled at this time.
IM 6.2.8	Bicycles on the Marine Science Campus.	Annually: Document access policies and procedures.	--	Consistent with this requirement, bicycles are allowed on the Marine Science Campus except on controlled access trails.

UC Santa Cruz Coastal Long Range Development Plan
 2011 Annual Mitigation Monitoring Report
 Table 1: Status of General Campus Measures

Mitigation/ Implementation Measure ID	Mitigation/Implementation Measure Description	Procedures and Timing	Notes	2011 Status
IM 6.2.9	Domestic pets.	Include prohibition on pets in lease agreement for on-site housing. Within one year of approval of CLRDP: Use signs and other media to inform public that pets are not permitted on the campus.	--	Reserve and LML staff continued to work with the UCSC Police Department to prepare for implementing a no-pet policy. LML staff, students and faculty were informed that a no-pet policy would be implemented in the near future. Reserve and LML staff and the UCSC Police Department are waiting to begin enforcement of a no-pet policy until the Campus way-finding signage is updated to reflect this policy change. Campus staff expect updated way-finding signage to be included in the forthcoming Coastal Biology Building project.
IM 6.2.10	Public access signage.	As new trails are developed: Maintain existing signs and provide new signage and other media. Document their content and distribution.	--	No new trails have been developed since the CLRDP was certified.
General-TDM	Implement Transportation Demand Management (TDM) measures as detailed in Policies 5.3 through 5.8.	Annually: Document implementation of TDM measures	--	See CLRDP Annual Report for status of TDM measures.
IM 8.2.2	Seawater system.	The seawater system shall be operated in a manner that will protect against spillage and that will sustain the biological productivity and quality of coastal waters, streams, and wetlands.	--	The seawater system was operated in compliance with NPDES permit requirements. See CLRDP Annual Report, Appendix A, Water Quality Report, for documentation of compliance with permit requirements.