

2005 LRDP EIR Mitigation Annual Monitoring Report, 2008-2009

Table 2: Mitigation Status Detail

Mitigation ID	Unit	Mitigation Description	Status	Status Description
AES-5D	Physical Plant	Continue Site Stewardship Program.	Completed - Ongoing	The Site Stewardship Program (SSP) was continued in 2008-09 by Grounds Services, Physical Plant. Oversight responsibilities were assigned as additional duties to the Assistant Superintendent of landscape management. One campus gardener with a background in native plant identification / propagation and ecological restoration was assigned field work responsibilities 35% of his time. He worked with multiple student interns and volunteers to survey and monitor and to complete restoration projects.
AES-6B	PP&C	Minimize light pollution in new development projects.	Completed - Ongoing	Campus standards for lighting have not changed during the past year. Campus Standards include the lighting design requirements specified in the mitigation: General Building Requirements Part II F and Campus Standards Handbook Section 16530 require that lighting be required for safety only and that decorative lighting be used only under certain circumstances and upon approval of Campus Architect . Site Requirements Part III H states that lighting with non-glare downlighting characteristics is preferred for all areas around buildings; forest areas are to be illuminated with non-directional fixtures that provide light throughout the surrounding area. Campus is currently installing test prototypes for induction lamp fixtures that, if approved, will provide the same light pollution mitigation with less energy usage. Report provided by Rhonda Tramble, Senior Engineer, 9/10/09.
AES-6D	OPERS	Turn off field lights at 11 PM.	Not Triggered	OPERS does not have any field lights at this time. Information provided by Ryan Andrews, Executive Director of OPERS, 9/11/09.
AES-6E	PP&C	DAB review outdoor lighting	Completed - Ongoing	In 2008-09, DAB reviewed outdoor lighting and glare potential for the two projects with outdoor lighting that were in design in the reporting year: East Campus Infill and the Porter College House A addition.
AIR-1	PP&C	Construction dust control.	Completed - Ongoing	Currently each project manager is individually adding the applicable mitigation measures to Division 1. PP&C is planning to update the Division 1 template. For each project, the Project Manager will review the template, select the applicable measures, and report on the selected measures and their implementation in the project mitigation monitoring report. Information provided by Courtney Trask, Civil Engineering Project Manager.
AIR-4A	PP&C	Work with AMBAG on regional population forecasts.	Completed - No Further Action	AMBAG issued new consistency determination for the 2005 LRDP in April 2009 stating that the 2005 LRDP is consistent with the 2008 regional forecasts and Air Quality Management Plan. See supporting document 1.

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Table 2: Project-Specific Mitigations

Mitigation ID	Unit	Mitigation Description	Status	Status Description
AIR-4B	PP&C	Work with MBUAPCD on campus growth-related emissions.	Completed - No Further Action	AMBAG issued new consistency determination for the 2005 LRDP in April 2009 stating that the 2005 LRDP is consistent with the 2008 regional forecasts and Air Quality Management Plan. See supporting document 1.
AIR-5A	Physical Plant	Generator testing schedule.	Completed - Ongoing	The generators are tested per the mitigation measure and Physical Plant is abiding by table 4.3-22. See preventative maintenance records as needed.
AIR-5B-PP	Physical Plant	Cogeneration system emissions	In Progress	Cogeneration system has not been replaced. There is currently no State approved methodology for accurate measurement of acrolein emissions, per UCSC EH&S and the MPBUAPCD. Physical Plant is currently in discussion with UCSC's EH&S dept on how to proceed with this mitigation issue, due to the above.
AIR-6	PP&C	Minimize construction air pollutant emissions.	Completed - Ongoing	Currently each project manager is individually adding the applicable mitigation measures to Division 1. PP&C is planning to update the Division 1 template. For each project, the Project Manager will review the template, select the applicable measures, and report on the selected measures and their implementation in the project mitigation monitoring report. Information provided by Courtney Trask, Civil Engineering Project Manager.
AIR-7	PP&C	Reduce toxic air contaminant emissions.	Completed - Ongoing	Campus Standards Handbook Section 16600 specifies the use of natural gas and/or propane for emergency and stand-by generators. Report provided by Rhonda Tramble, Senior Engineer, 9/10/09.
BIO-15	Arboretum	Arboretum fencing allow mammal movement	In Progress	During February 2008 the Arboretum installed temporary plastic deer fencing around the Arboretum/Natural Reserve Jointly managed area where the California Province Gardens are being developed. At some stage we will be raising funds for a permanent fence which will allow certain wildlife (not deer or wild pigs) access to the area. It is essential to fence deer out in order to develop the research and conservation collections. (information provided by Brett Hall in email dated 2/2/2010)
BIO-7A-	Police	Ohlone tiger beetle protection in Marshall Field.	Completed - Ongoing	Additional patrolling of Marshall field during the Ohlone tiger beetle's active season is not required at this time. See BIO-7A-PP for details.

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BIO-7A-PP	Physical Plant	Ohlone tiger beetle protection in Marshall Field.	Completed - Ongoing	During December 2005, Physical Plant successfully petitioned USF&WS for a minor amendment to the UCSC RVT HCP to discontinue the temporary fencing and resort to only using the permanent OTB signs. In addition to the RVT HCP affected grasslands, the temporary fences were also discontinued in Marshall Field. In previous years, the patrolling by Physical Plant was to maintain the temporary OTB fences and signs. In the absence of these temporary measures, formal Physical Plant patrols were discontinued. Campus continues to monitor OTB presence on Campus and to adapt management based on ongoing research.
BIO-7B	Arboretum	USFWS consultation on Arboretum fencing	Completed - No Further Action	Mitigation was completed in 2006-07. UCSC staff consulted informally with USFWS staff, who said that agency had no concerns with any fencing in the area with respect to special-status species identified under the Endangered Species Act.
BIO-8A-	CNR	Cave signs and educational material.	Completed - No Further Action	An informational sign about cave species has been installed at the cave entrance. The CNR website was updated to include information on the cave species and the threat posed to them by recreational use of the caves. The web page is at: http://ucreserve.ucsc.edu/UCSCCNR/caves.html Report provided by Gage Dayton, Director, UCSC Natural Reserves, 9/16 and 9/17/2009.
BIO-8A-PP	Physical Plant	Signs and educational material to protect caves.	Completed - Ongoing	An informational sign about cave species has been installed at the cave entrance. Physical Plant will maintain the sign in future years.
BIO-8B-	PP&C	Consult with agencies on cave barrier design.	Completed - Ongoing	PP&C staff consulted with USFWS staff in 2007. PP&C staff requested a consultation with CDFG staff in 2007, but CDFG staff has not yet responded to UCSC's request.
CULT-1B-	Physical Plant	Archaeological resource training for campus employees.	Completed - Ongoing	Title of Training: Cultural Resources Date of Training: 09.16.09 Name and Title of trainer: Sally Morgan, Sr. Environmental Planner, PP&C Number of Grounds Staff that attended: 52 Number of Grounds Staff who could not attend: 3
HAZ-10A	Fire Dept	Annual/biennial building inspections	Completed - Ongoing	Inspections of buildings were conducted as specified in the mitigation. Documentation is maintained in the fire department records management system. Information provided by Jeff Trapp, Fire Chief.
HAZ-10B	Physical Plant	Develop and implement Vegetation Management Plan	Not Triggered	Construction on north campus is not currently planned or under construction. No action was required in the reporting year.

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HAZ-10C	Physical Plant	Wildland fire prevention signage.	Not Triggered	Construction on north campus is not currently planned or under construction. No action was required in the reporting year.
HAZ-2	EH&S	Enhance hazardous waste minimization program.	Completed - Ongoing	<p>Total hazardous waste from main campus generated for FY08/09 was 57,997 pounds.</p> <p>A recent effort to reduce potential campus hazardous is the finalization of a web-based Green Guide to help the campus manage unwanted stuff: "UCSC Recycling and Disposal Guide."</p> <p>This year updates and educational outreach regarding the evolving universal waste programs are provided during laboratory safety meetings, waste generator training classes, a poster at Earth Summit, and a booth and poster at the Staff Picnic. Seven hazardous waste training classes were offered during FY08-09. 72 faculty, staff and students were officially trained.</p> <p>See supporting document 1 for details.</p> <p>Information provided by Dan Blunk, Environmental Programs Manager, EH&S</p>
HAZ-9A	PP&C	Construction road closure procedures.	Completed - Ongoing	The Division 1 template for construction contracts includes the requirements specified in the mitigation.
HAZ-9B	Fire Dept	Test and update EOP.	Completed - Ongoing	<p>The campus EOP is on the web at http://emergency.ucsc.edu. The EOP was tested in the reporting year.</p> <p>Information provided by Jeff Trapp, UCSC Fire Chief (email dated 3/9/2010).</p>
HAZ-9C	Fire Dept	EOPs for 2300 Delaware and north campus.	Not Triggered	Construction of the north loop road has not begun. Building C has not been occupied (other than for storage). Therefore, this mitigation has not been triggered.
HAZ-9D	PP&C	Secondary emergency egress route for north campus.	Not Triggered	North campus development is not currently planned or under construction. Mitigation has not been triggered.
HYD-2A	PP&C	Construction site controls, sites less than 1 acre.	Completed - Ongoing	<p>All year 1 measures in the campus draft Storm Water Management Program have been incorporated into the Campus Standards. Division 1 section 01560 1.03 A.4 requires that the Contractor shall comply with Appendix D Erosion and Sediment Control Standards. Appendix D - Erosion and Sediment Control Standards For Projects Under One Acre-has been added to the Campus Standards.</p> <p>Information provided by Courtney Trask, Civil Engineering Project Manager.</p>

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HYD-2B	PP&C	Erosion controls for grading on hillsides.	Completed - Ongoing	Sediment control measures are a required element of the campus Storm Water Pollution Prevention Plan template, which must be prepared for all projects disturbing more than 1 acre of land. Sediment control measures are included in the Erosion and Sediment Control Standards for Projects Under One Acre. Information provided by Courtney Trask, Civil Engineering Project Manager.
HYD-3A	Physical Plant	Signs and public education about importance of staying on paved roads and approved paths.	Completed - Ongoing	Eleven additional signs and new temporary fences have been placed and replaced at the entrance areas to Cowell meadow and to upper Jordan Gulch areas affected by shortcutting trails.
HYD-3A	PP&C	Signs and public education about importance of staying on paved roads and approved paths.	Completed - Ongoing	Text about the importance of staying on official paths is included on the Upper Campus Walking Map (attached) and will be added to the next update of the UCSC Walking Map, which shows the central campus.
HYD-3B-PP	Physical Plant	Erosion control measures for fire roads.	Completed - Ongoing	Water bars and rolling depressions were reestablished. Accumulated debris was cleared from the silt fencing at drainage outlets along the fire roads. Silt fencing was removed / replaced as needed. Culverts and drainage inlets were cleared as needed.
HYD-3D	PP&C	Low-impact development measures for new development.	Completed - Ongoing	The campus' low impact development protocol has been completed and will be incorporated into the Executive Design Professional Agreement (EDPA) for all applicable projects. Information provided by Courtney Trask, Civil Engineering Project Manager.
HYD-5C	PP&C	Aquifer monitoring.	Not Triggered	Campus did not use the well to supply water in the reporting year. Therefore, this mitigation has not been triggered.
NOIS-1	PP&C	Construction noise controls.	Completed - Ongoing	Currently each project manager is individually adding the applicable mitigation measures to Division 1 of construction contract. PP&C is planning to update the Division 1 template. For each project, the Project Manager will review the template, select the applicable measures, and report on the selected measures and their implementation in the project mitigation monitoring report.
NOIS-2	PP&C	Contractors use City-designated truck routes.	In Progress	PP&C has not yet updated the Division 1 template to include this requirement. Campus is working on a revision to the Division 1 template that will include this requirement.

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POP-3A	CUHS	Campus housing accommodate 50% of undergraduates and 25 percent of graduate students.	Completed - Ongoing	Monitoring was conducted that included campus student enrollment and housing capacity for undergraduate and graduate student populations. Student housing capacity in 2008-09 was at 50% of undergraduate student enrollment, and 27% of graduate student enrollment. Details provided in attached document: 2008-09 Student Housing Capacity & Enrollment.pdf
POP-3B	CUHS	Housing collaboration study.	Completed - No Further Action	Campus Housing and Market Study Report was completed in September 2008 by consultant group Brailsford and Dunlavey. See report for 2007-2008.
POP-3C	CUHS	Housing collaboration study.	Completed - Ongoing	Campus Housing and Market Study Report was completed in September 2008 by consultant group Brailsford and Dunlavey.
REC-2C-PP	Physical Plant	Discourage illegal bicycle use on Pogonip trails.	Completed - Ongoing	Four signs were placed in 2006, advising the population they are leaving the University, entering Pogonip and notified to adhere to City Park regulations. Signs were placed on Rincon Rd., U-Con trail, Coolidge Rd. lookout, and Spring Road / trail. Fences and signs were maintained throughout the current reporting year.
REC-2C-	TAPS	Discourage illegal bicycle use on Pogonip trails.	Completed - Ongoing	Signs were installed in April 2007 and remain in good condition. Fence repairs were made in March 2008. The Campus Bike Plan was completed in Fall 2008 and approved as an amendment to the City Bike Plan by the Santa Cruz City Council in December 2008. The campus bike map in the Bike Plan shows the campus/Pogonip boundary. The Upper Campus Bicycle, Equestrian and Pedestrian Map has been revised to indicate that bicycles are only permitted in the Pogonip on designated multi-use trails.
REC-2D-PP	Physical Plant	Coordinate with City on volunteer trail maintenance days.	Not Triggered	Dean Fitch (PP&C) consulted with Susan Harris, of City Parks and Recreation, about this mitigation in September 2008. City currently does not have a volunteer trail maintenance program but hopes to implement one, and asks that the campus check with ranger in future years.

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REC-4	OPERS	Recreational facilities available to public	Completed - Ongoing	Recreational Amenities are available for public use. These include the track, outdoor exercise spaces (Park Course) and fields located at the East Field House complex. The public can also purchase a community Wellness Card to access all other facilities at OPERS (pool, Wellness Center, etc.). Information about public access to our facilities is available on the OPERS website: http://www2.ucsc.edu/opers/WellnessCards/wellnesscards.html Report provided by Ryan Andrews, Executive Director of OPERS, 9/11/09.
TRA-1	TAPS	Monitoring and improve campus intersections.	Completed - Ongoing	Traffic at Hagar/McLaughlin and Heller/Meyer intersections was conducted in Fall 2007. At both intersections, the level of services was A in the AM peak hour and B in the PM peak hour, which is considered acceptable. The next monitoring study will be conducted in Fall 2010.
TRA-2A-	TAPS	Monitor and contribute to improvements to City intersections.	Completed - Ongoing	Seven separate hose counts were conducted in October 2008 and April 2009 by consultants to the Santa Cruz County Regional Transportation Commission in support of UCSC TAPS Mitigation Monitoring Program. Annual school-term average daily trips (ADTs) through the two campus entrances equaled 21,242--the lowest since 1997-98. Turning movement counts were conducted at 52 locations on- and off-campus in Fall 2007. The campus plans to repeat these counts in Fall 2010.

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TRA-2B	TAPS	Expand TDM programs.	Completed - Ongoing	<p>1) An updated summary of TDM program metrics is provided in Supporting Doc 4.</p> <p>2) Expansion of existing TDM programs during 2008-09 continues to help reduce traffic volumes to/from campus. The 4th Bike Shuttle, operating from the UCSC Inn near downtown Santa Cruz, continued to operate through 2008-09 and experienced a 30% ridership increase over 2006-07. The Bike Plan was approved by the Santa Cruz City Council in December 2008. The Vanpool program remained at 23 routes, with 3 additional routes planned for 2009-10. The Zipcar carsharing program grew in popularity and utilization. Zimride, a Facebook-based ridesharing application, was launched in Spring 2009.</p> <p>3 & 4) Modal mix studies were conducted in Spring 2009 with similar results. The Spring 2009 study determined that 60.44% of all passenger-trips entering and exiting the campus between 7am and 6pm were made via an alternative travel mode: 29.7% by SCMTD transit, 24.1% by multi-occupant cars, 3.4% by various TDM programs (including the Bike Shuttle, Day Shuttles, and Commuter Vanpools), 3.0% by bicycle, and 0.1% by foot. Of the 39.6% non-TDM trips, 35.1% were made via single occupant vehicle, 3.7% were service/construction vehicles, and 0.9% were motorcycles.</p> <p>5) Hose counts were conducted for two weeks in Fall 2008 and Spring 2009 at seven on-campus locations. A table summarizing these counts appears in Supporting Doc 3. Overall, the two-quarter average of each academic year's traffic counts show a 15.1% reduction between 05-06 and 08-09, and a 3% reduction between 07-08 and 08-09. When compared with Spring 2006, the Spring 2009 counts show a 9% reduction in campus traffic volume.</p>

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TRA-3B	TAPS	Parking monitoring and construction.	Completed - Ongoing	<p>1) No changes were made to the parking zone definitions during 2008-09.</p> <p>2) The Spring 2009 Parking Utilization Survey is on file at UCSC Physical Planning & Construction.</p> <p>3) 2300 Delaware Avenue Building C has not been occupied.</p> <p>4) Projects underway or commencing in the near future that generate temporary or permanent parking impacts include:</p> <ul style="list-style-type: none"> • Digital Arts Facility (temporary loss of ~40 parking spaces, equivalent to one-quarter the capacity of Performing Arts lot #126); event-related impacts mitigated by controlled access to contractor parking area. • Biomedical Sciences Facility (permanent loss of ~40 spaces in Lot 121); demand accommodated by available spaces in Core West parking structure and at Cowell Health Center. • Cowell Health Center Seismic Improvements (temporary loss of 5-15 spaces). <p>5) Based on Spring 2009 parking utilization survey, ample parking capacity exists in underutilized campus lots to accommodate the increase resulting from loss of parking supply plus projected growth in parking demand.</p>
TRA-3C	TAPS	Parking management systems.	Completed - Ongoing	<p>1) Use of two mobile changeable message signs has helped direct visitors to specific areas of campus during major campus events.</p> <p>2) No new parking information systems have been pursued at this time.</p> <p>3) TAPS staff are pursuing installation of improved parking “pay stations” at Core West, Performing Arts and Hahn Student Services parking lots in December 2009 to provide more flexible and secure short-term parking management during evenings and weekends.</p>
TRA-4A	TAPS	Monitor transit efficiency.	Completed - Ongoing	<p>Transit travel times for Day Shuttle routes (Loop or Upper Campus) from Oakes College to Cowell College are monitored throughout each academic quarter. While on-campus traffic volumes have remained constant or declined (as monitored by semi-annual hose counts), pedestrian traffic volumes crossing roadways within the central campus have resulted in longer transit cycle times during class break periods. In general, however, Campus Transit and SCMTD buses continue to provide adequate transit cycle times.</p> <p>TAPS conducted cordon-count based Mode Split Studies in April 2009 indicating that more than 60% of person-trips through the campus entrances relied on alternative modes. Weekday ADTs measured at the same time increased approximately 8% from 07-08. SCMTD ridership grew by 7.6% over 07-08, while Campus Transit ridership grew by 4%.</p>

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Mitigation ID	Unit	Mitigation Description	Status	Status Description
TRA-4B	TAPS	Improve transit efficiency.	Completed - Ongoing	Campus continues to work with SCMTD to provide supplemental transit services on impacted routes, such as the 20D service augmenting Route 20 UCSC/Western Drive and Route 27X "Limited Express" transit service between downtown Santa Cruz and the campus. Minor route reschedulings were designed and implemented cooperatively to improve scheduling and increase ridership throughout 2008-09.
TRA-4D-PB	P&B	Coordinate roadway and circulation improvements with pace of campus development	Completed - Ongoing	<p>Construction of the Chinguapin Sidewalk Project in summer 2009 added a sidewalk to the west side of Chinguapin and to the north side of McLaughlin between Chinguapin and the Crown/Merrill bus stop.</p> <p>The campus has obtained a grant to install a signal at the west entrance, and plans to complete this work in summer 2010.</p> <p>As part of the Heller Drive Pavement Rehabilitation project, completed in 2009, a bike lane was added from the west entrance to College Eight by restriping.</p> <p>An Initial Study prepared for the Porter College Seismic, Capital Renewal and Expansion Project, Phase 2, identified project-level mitigation measures to address transit cycle time delays at Heller between Porter College and College Eight.</p> <p>A project to construct the circulation and utilities infrastructure needed to support the construction of the Social Sciences Facility, proposed for the northeast area of the campus, is included in the University's 2009-2015 Capital Budget, with planning phase anticipated in 2012-13.</p>
TRA-4D-	TAPS	Campus roadway and circulation improvements.	Completed - Ongoing	<p>TAPS staff continue to work on several roadway and circulation projects:</p> <ul style="list-style-type: none"> • West Entrance Signal Project will install traffic signal controls at the intersection of Heller Drive and Empire Grade. Funding provided by an external grant and TAPS revenues. • Ranch View Terrace/Bike Path Intersection improvements, primarily revisions to signage, drainage and visibility implemented during Fall 2008. • Heller Drive Bike Lane is a three-phase project to construct Caltrans-compliant Class II bike lanes on the uphill side of Heller from Empire Grade to McLaughlin, and on the downhill side between College Eight and Empire Grade. The section between Empire Grade and College Eight was resurfaced during Summer 2009, with restriping accommodating Class II bike lanes in the uphill direction. • Construction of a pedestrian sidewalk and Class II bike lane along Chinguapin Road between McLaughlin and the Crown Access Road during Summer 2009. <p>Planning & Budget is aware of these grant-funded projects.</p>

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Mitigation ID	Unit	Mitigation Description	Status	Status Description
TRA-4E	TAPS	Bicycle circulation improvements.	Completed - Ongoing	<p>1) The UCSC Bike Plan was finalized during Fall 2008 and approved (as an amendment to the City of Santa Cruz Bike Plan) by the City Council in December 2008. The plan may be downloaded at: http://www2.ucsc.edu/taps/bicycleprograms.html</p> <p>2) In conjunction with reconstruction of Heller Drive between Empire Grade and College Eight during Summer 2009, the road was re-stripped to provide a Class II bike lane in the uphill direction through this segment. A Class II bike lane was added to the uphill direction of Chinquapin Drive between McLaughlin Drive and the Crown College Access Road during Summer 2009.</p>
TRA-4F	TAPS	Wayfinding systems.	In Progress	<p>1) No work was done on a pedestrian plan during 2008-09. However, preliminary work continued toward modifying the campus signage standards to improve wayfinding. This work is continuing during 2009-10.</p> <p>2) Several elements of an improved way-finding system include:</p> <ul style="list-style-type: none"> • Standardized street names and signage; • Consistent sign standards for streets, buildings, and supporting infrastructure; • A hierarchy of area-based directional systems, including but not limited to “You Are Here” informational kiosks at key locations.
TRA-5B	TAPS	Special-event parking management.	Completed - Ongoing	<p>Based on the number of event parking permits sold, the campus hosted 794 events during 2008-09, serving approximately 210,100 people.</p> <p>Two major problem areas for night and weekend parking management were identified:</p> <p>1) Event sponsors are not currently required to list their events in the online campus calendar. Campus units that don’t list their events often impact the events of others (parking, traffic). Work continued in 2007-08 to improve the campus calendar, making it easier to use, and triggering notification of the TAPS Event Parking Office for events over a certain size. While implemented, some event sponsors still avoid use of the campus calendar.</p> <p>2) Lack of adequate parking capacity in the Performing Arts lot was exacerbated by the construction of the Digital Arts Facility; the construction staging area temporarily eliminated 30% of available parking spaces in that lot. TAPS Event Parking staff implemented a new procedure for handling overflow parking in that area, reducing the waiting time of those wanting to park, as well as the number of complaints received. Conditions should improve somewhat with completion of the Digital Arts Facility in 2009-10.</p>

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TRA-5C	TAPS	On-line parking permit sales and information.	In Progress	While directional maps and the Campus Calendar of events are available on-line, TAPS staff have not yet identified a secure means of issuing event-specific visitor parking permits. Systems currently available are either confusing and/or inconvenient for the customer, or easily counterfeited. Discussions are underway with the Ticket Office to offer advance, on-line parking permit sales in conjunction with event ticket sales.
TRA-5D	TAPS	Campus Events Calendar System for traffic and parking management.	In Progress	<p>1) Improvements have been made to the Campus Events Calendar system that a) enhance the stability of the software and operating system, and b) enhance the user interface for visitors. As these "phase 1" improvements have been developed, implemented and tested, additional improvements have been identified for "phase 2" that enhance the user interface and effectiveness for event management staff and sponsors.</p> <p>2) Phase 1 improvements have incorporated a system that notifies TAPS of the proposed scheduling of large events on the Campus Calendar. However, as noted elsewhere, the campus administration does not yet require sponsors to post their events to the Calendar system, resulting in some events going un-posted (and TAPS failing to be notified). In general, however, these unreported events are believed to be relatively small in size.</p> <p>3) TAPS Events staff have devised traffic and parking management plans on an as-needed basis for large events (including Move-In and Commencement), as well as for occurrences of multiple, simultaneous event of moderate size. These have included: Move-In, Commencement, Spring Spotlight, an annual Scholarship Dinner, and Reunion Weekend.</p>
TRA-6B	TAPS	Fair share contribution to freeway facility improvements.	Not Triggered	Commitment has not been triggered, no action necessary.
TRA-6B-PB	P&B	Pay fair share of local cost of improvements to freeway facilities.	Not Triggered	There is no mechanism within Santa Cruz County for establishing and collecting fair share payments from projects that contribute to the need for freeway improvements.

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UTIL-4	Physical Plant	Improve recycling and waste reduction.	Completed - Ongoing	<p>The following improvements in recycling and waste reduction programs were implemented during this reporting period:</p> <ul style="list-style-type: none"> • Increased number of and locations of receptacles for cardboard, mixed paper, mixed containers, metal, green waste and remodel construction debris. • Continued program development for e-waste service. • Outreach to students through CUIP programs through student organizations, tabling, event booths, presentations, signs and hand-outs. • Utilized the department owned roll-off truck service for capital project construction debris to track campus waste. <p>Waste diversion of campus 'municipal waste' was increased to 53% of the overall waste stream without including construction materials and diversion reached 71% when including construction materials.</p>
UTIL-9A-	CUHS	Water efficient washing machines in student housing.	Completed - Ongoing	<p>The current contract runs from July, 2009, through June, 2012. The contract specifies: All machines must be water saving and energy efficient and certified by the Consortium on Energy Efficiency to have a water factor of 5.5 or less and a Modified Energy Factor (MEF) of 2.15 or greater.</p>
UTIL-9A-	OPERS	Water-efficient washing machines.	Not Triggered	<p>OPERS did not purchase washing machines in the past year. Report provided by Ryan Andrews, Executive Director of OPERS, 911/09.</p>
UTIL-9A-PP	Physical Plant	Leak detection and repair.	Completed - Ongoing	<p>At present there are no changes to the current campus leak detection and repair practices. (Leak detection system was described for 2006-07 as follows: On a monthly basis, Patrick Testoni, Campus Energy Manager, provides a chart that indicates water usage from all the points of city water entering Campus. The Campus water specialist and I (George Williams) compare, on a month by month basis, the usage. If there is an unexplained increase in any of the zones a visual inspection of the zone is conducted coupled with a leak detection contractor (Nor-Cal / Cruz Brothers) being called in to do a electronic sounding survey. After leak is found repairs are immediately scheduled and completed by an underground utility repair contractor (Granite Const/Geo. H. Wilson)</p>

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UTIL-9B-PP	Physical Plant	Pilot test high-efficiency plumbing fixtures.	Completed - Ongoing	<p>Three Pilot Test programs have been completed; (1)The waterless urinal testing (2) The .08 gpf Zurn urinal testing and (3) The .5 gpm restroom faucet aerator testing.</p> <p>The waterless urinal has been rejected due to the less than cost effective replacement cartridge costs. The Zurn .08 gpf urinal has been adopted into the Campus Standards in place of the waterless fixture.</p> <p>The .5 gpm faucet aerator has been adopted into the Campus Standards and was used to retro-fit the high and non high use Campus OMP faucet restroom lavatory faucet aerators</p>
UTIL-9B-	PP&C	Pilot test high-efficiency plumbing fixtures	Completed - Ongoing	<p>Campus has tested waterless and 1/8 gpf urinals, dual-flush flush valves, 1.28-gpf tank-type toilets, 0.5-gpm faucet aerators, and 1.5 gpm showers, and has adopted all but the waterless urinals. These fixtures are included in current projects. Information provided by Steve Paul, Campus Engineer.</p>
UTIL-9C	CUHS	Water conservation education program for campus residents.	Completed - Ongoing	<p>1) CUHS provided educational materials to residents including posters, table-tents, flyers and cling-on conservation reminders installed in bathrooms during 2008 -2009. The Conservation coordinator and CUHS-sponsored Green Campus Program students have held conservation tabling events at colleges and all-campus recreational events, and at new-student orientations.</p> <p>2) Silas Snyder, CUHS Facilities Resource Conservation, Training, and Safety Coordinator, has been designated as a water conservation educator.</p>
UTIL-9D	PP&C	Campus water audit.	Completed - No Further Action	<p>Mitigation was completed in 2007.</p>
UTIL-9E-	CUHS	Implement water audit recommendations.	Completed - Ongoing	<p>CUHS Facilities completed installation of 1.6 gpf toilets in three buildings at Graduate Student Housing, and purchased seventy 1.6 gpf toilets for installation in Family Student Housing during the summer of 2009. Facilities also purchased 1.5 gpm showerheads and 1.5 gpm faucet aerators for retrofit of all CUHS student residences during the summer of 2009.</p>

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Table 2: Project-Specific Mitigations

Mitigation ID	Unit	Mitigation Description	Status	Status Description
UTIL-9E-PP	Physical Plant	Implement water audit recommendations.	Completed - Ongoing	<p>2008-2009 Updated Progress status for the priorities identified in 2007-2008 are:</p> <p>Completed:</p> <ol style="list-style-type: none"> 1) The (27) PE Pool have been retro-fitted from the 2.5gpm to the Bomar 1.5gpm shower heads 2) The 320+ "High Use" restroom faucet aerators have been retrofitted to the .5gpm aerators 3) The 500+ "Non High Use" restroom faucet aerators have been retrofitted to the .5gpm aerators <p>Not Completed:</p> <ol style="list-style-type: none"> 4) The repair /replacement of OMP tank type toilet flappers has not begun. WO332023 has been generated. Work to take place before end of the year. 5) The repair /replacement of OMP wall hung type 1.6gpf toilet flushvalve diaphragms has not begun. WO332025 has been generated. Work to take place before end of the year. 6) Design work has begin in 2009 for the retrofitting of the 3.5GPF wall mount toilets to 1.6GPF type flushometers. 7) Design work began in 2009 for the retrofitting of urinals in campus state buildings to .08GPF.
UTIL-9F	Physical Plant	Update water audit	Not Triggered	No action required in the reporting year.
UTIL-9G	PP&C	Water re-use feasibility study.	Completed - No Further Action	A water re-use study was completed in May 2009. See supporting document 1.
UTIL-9H-	CUHS	Retrofit plumbing fixtures in student housing within 5 years following approval of 2005 LRDP.	Completed - Ongoing	<p>One large residence building at Porter College ("B Building) has been fully retrofitted in 2008-2009 with ultra low flow fixtures as a part of a major capital improvement project. Design and bidding are complete for complete replacement of fixtures in a second building during 2009-2010.</p> <p>CUHS is in the planning stages of the retrofit of Merrill College residence halls/faculty apartments (5 buildings) and Kresge College/Kresge East Apartments (17 buildings.) Work is anticipated on these retrofits during summer, 2010. This will complete required retrofit work of CUHS facilities.</p> <p>As part of ongoing maintenance in 2008-2009, flushometer valves that are performing below specified efficiency level in 8 buildings at Crown College have been rebuilt or replaced.</p>

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Table 2: Project-Specific Mitigations

Mitigation ID	Unit	Mitigation Description	Status	Status Description
UTIL-9I-	Arboretum	Water conservation in drought emergency	Completed - Ongoing	The City implemented Stage 2 water use restrictions for May through October 2009, with a goal of reducing peak season water use by 15%. The Arboretum reduced its water usage by the required 10-15% during the designated period of time in spring-summer 2009. (information provided by Brett Hall in email dated 2/2/2010)
UTIL-9I-	CASFS	CASFS reduce use of potable water for irrigation if City implements drought emergency measures.	Completed - Ongoing	The City implemented Stage 2 water use restrictions for May through October 2009, with a goal of reducing peak season water use by 15%. CASFS has complied with restrictions imposed on other similar users in the City service area. During the past year year, CASFS has installed seven flow meters at key points in the irrigation water system and will be installing two more over the next year. This will facilitate monitoring of water use in different zones, with the goal of educating the various irrigation managers about keeping water use to an absolute minimum.
UTIL-9I-	CUHS	Require reduction in residential water use on campus if the City implements drought emergency management measures.	Completed - Ongoing	1) CUHS Grounds Keepers (Family Student Housing, Village, Grad Housing, and Camper Park), landscape contractors (Faculty Housing) and Physical Plant Grounds Keepers (the Colleges) who maintain CUHS areas have complied with City Stage 1 watering restrictions prohibiting automatic irrigation between 10 AM and 5 PM. 4) CUHS has met the 15% water use reduction goal for May-October 2009.
UTIL-9I-PP	Physical Plant	Water conservation in drought emergency.	Completed - Ongoing	The City implemented Stage 1 water reduction measures for the months May, 2009-November, 2009, setting an overall usage reduction target of 15%. UCSC's reduction, which ranged from 16% in September to 27% in June, exceeded this target.