

TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL *BB*
DATE: JUNE 20, 2008



NCSD SUPERINTENDENT REPORT

ITEM

NCSD Superintendent Tina Grietens re Utility Dept. update [NO ACTION REQUESTED].

BACKGROUND

Tina Grietens is scheduled to summarize the attached outline.

RECOMMENDATION

Staff recommends that your Honorable Board receive the presentations and ask questions as appropriate.

ATTACHMENTS

- Utility Operations Update

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NIPOMO COMMUNITY

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148 SOUTH WILSON STREET POST OFFICE BOX 326 NIPOMO, CA 93444 - 0326
(805) 929-1133 FAX (805) 929-1932 Website address: NCSD.CA.GOV

TO: BRUCE BUEL, GENERAL MANAGER
FROM: *TG* TINA GRIETENS, UTILITY SUPERINTENDENT
DATE: JUNE 19, 2008
SUBJECT: UTILITY DIVISION UPDATE

- **Southland Wastewater Plant**
Sludge removal in Pond #3 began on June 17th
- **Southland Utility Yard**
Working with District Engineer, Cannon and Clever Ducks to eliminate SCADA problems
Alarm System installation in shop area and old office space and window installation complete
Met with APCD representative regarding permitting of standby generators
- **Collection system**
Sewage spill at Tejas Lift Station on Sunday June 8th (previously reported by District Engineer)
Working with District Engineer and Cannon to implement reliable backup alarm systems at lift stations
Continuing to work on reducing overtime call outs at lift stations
- **Wells**
Eureka well electrical panel replaced
Sundale well maintenance completed
Olympic SCADA repairs in progress
- **Distribution System**
Hydrant was sheared off at Story and Crystal on June 3rd; repairs completed by staff.
Two 500,000 gal water tanks cleaned and inspected on June 11th and 12th by Harper and Associates
- **Water line Relocation Project**
10" in-line valve installation on Tefft Street was completed on May 28, 2008 by TLC Construction
- **Personnel**
Internal promotions and re-assignments have been implemented. Recruiting and interviewing for 2 Maintenance/Customer Service Workers is in progress.
- **Compliance**
Monitored laboratory results, assisted District Engineer with compliance reports to regulatory agencies
- **Other**
Reviewed Waterline Intertie Proposals

TO: BOARD OF DIRECTORS
FROM: BRUCE BUEL 
DATE: JUNE 20, 2008



WATER CONSERVATION PROGRAM UPDATE & SEMI-ANNUAL REPORT

ITEM

NCSD Water Conservation Coordinator Celeste Whitlow re Water Conservation Program and Semi-Annual Report[NO ACTION REQUESTED].

BACKGROUND

Celeste Whitlow is scheduled to summarize the attached materials.

RECOMMENDATION

Staff recommends that your Honorable Board receive the presentations and ask questions as appropriate.

ATTACHMENTS

- Water Conservation Program Outline
- Semi-Annual Report

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NIPOMO COMMUNITY SERVICES DISTRICT

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MEMORANDUM

TO: BRUCE BUEL, GENERAL MANAGER
FROM: CELESTE WHITLOW, CONSERVATION AND PUBLIC OUTREACH
COORDINATOR *ew*
DATE: JUNE 25, 2008
RE: ITEM C-2 : WATER CONSERVATION ACTIVITIES UPDATE

- **Community Events and Educational Workshops**
 - Workshop: Septic System Maintenance and Landscaping Over a Septic System, 5/31/2008: Completed.
 - San Luis Obispo County WaterFest 2008: Completed (see attachments).
 - Chipping Event: In progress.
 - Workshop: Creating a Defensible Space, Fire-Resistant Landscaping, 7/26/2008: In planning stages.
- **Newsletters, Mailings, Advertising.**
 - District Newsletter preparation, mailing.
 - Preparation of flyers, ads for 7/26 workshop.
 - Coordination of bill stuffers.
 - Advertising.
- **WC Program Implementation**
 - High-efficiency clothes-washer program.
 - Water audit program.
 - Turf-replacement program.
 - Formal launch.
- **Office Landscape.**
 - Tree Grates: Finished.
 - Spreading of eucalyptus wood chips on landscape: Waiting for scheduling.
 - Modification of Irrigation System: Waiting for scheduling.
 - Landscaping Maintenance District #1 conversion of turf to drought-tolerant plant material: Review in progress.
- **California Urban Water Conservation Council.**
 - Working with them on high-efficiency clothes washer program.
- **Reviewing.**
 - *Draft National Water Program Strategy: Response to Climate Change* (Office of Water, U.S. Environmental Protection Agency). See attachments.

Attachments.

Summary of Event, SLO County WaterFest 2008.

Advertisement thanking sponsors, SLO County WaterFest 2008.

Memorandum, Environmental Protection Agency

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAR 1 2007

OFFICE OF WATER

MEMORANDUM

SUBJ: Climate Change and the National Water Program

FROM: Benjamin H. Grumbles
Assistant Administrator for Water

A handwritten signature in black ink, appearing to read "BHG", written over the printed name of Benjamin H. Grumbles.

TO: Office Directors: Office of Water
Water Division Directors: Regions 1 – 10
Great Waterbody Program Office Directors

EPA and its partners, locally and globally, are learning more and doing more to confront the serious challenge of climate change. Increasingly, we understand climate change may have impacts on water resources and watersheds and affect our efforts to ensure progress under the Clean Water Act, Safe Drinking Water Act, and various ocean and coastal laws. While there remains some uncertainty on the scope and timing of climate change related effects, the National Water Program and its partners should take prudent steps now to assess emerging information, evaluate potential impacts of climate change on water programs, and identify appropriate response actions.

This memorandum describes general principles to guide the National Water Program in responding to climate change, outlines an organizational approach to addressing climate change within the National Water Program and proposes developing a National Water Program strategy on climate change. Your comments would be helpful on both the general topic of climate change impacts on water resources and on the principles, organization, and approach described in this memorandum. In addition, I ask that you consider naming a senior manager from your organization to serve on a new National Water Program Climate Change Workgroup.

D) Principles

The following general principles will help to guide the efforts of the National Water Program as we coordinate to evaluate potential impacts from climate change.

- **Common Strategy Framework:** The National Water Program will organize its work related to climate change around the existing Agency framework focusing on the three key topics of mitigation, adaptation, and research.

- **Cooperation with Other EPA Offices:** The National Water Program will draw on the knowledge of other EPA offices, including the Office of Research and Development and the Office of Air and Radiation, in addressing climate change issues and will leverage the work of these offices wherever possible. The National Water Program will also identify opportunities to support ongoing Administration initiatives on climate change science, impacts, and adaptation.
- **Implement Response Actions:** A key purpose of our work on climate change is to create the capacity within the National Water Program to develop and implement specific response actions in coordination with Federal, State, and other partners.
- **Open Communications:** The National Water Program intends to open a dialogue on the impacts of climate change on water programs and the capacity to identify and adopt emerging best practices.
- **Iterative Process:** The National Water Program will monitor implementation of response actions and review and revise the strategies as needed.

II) National Water Program Climate Change Workgroup

The National Water Program will establish a new Climate Change Workgroup made up of managers from each HQ water program office and several Regional water offices. I have asked Deputy Assistant Administrator for Water Michael Shapiro to chair the Workgroup, which will also include a senior manager from the Office of Research and Development and the Office of Air and Radiation.

In addition to overseeing water program work related to climate change, the Water Program Climate Change Workgroup will provide background information and educational materials to EPA water program managers with the goal of increasing understanding of potential climate change impacts on water resources among a wide range of water program managers. Based on this work, the Workgroup will develop a National Water Program Strategy on Climate Change (see below). The Workgroup will also, in consultation with the Office of Research and Development and the Office of Air and Radiation, work to increase communications concerning information and actions related to climate change impacts on water, including describing EPA actions to key stakeholders, such as State and Tribal water program managers, and gathering information from outside parties.

Office Directors in the Office of Water should provide the name of a senior manager from their Office to serve on the Workgroup to Michael Shapiro by March 9th. I have also asked Jim Giattina, Water Division Director for the EPA Lead Region for Water (Region 4), to consult with Regional Water Division Directors and Great Waterbody Program Offices Directors and provide to Michael Shapiro by March 9th the

names of senior managers to represent Regional Offices and Great Waterbody Program Offices on the Workgroup.

III) National Water Program Climate Change Strategy

Climate change has the potential to affect water resources in five areas:

- atmospheric temperature;
- rainfall/snowfall levels/distribution;
- storm intensity;
- coastal/ocean characteristics (temperature/chemistry); and
- sea level rise.

For example, sea level rise can result in wetlands loss, shoreline erosion, and saltwater intrusion on sources of drinking water. In addition, changes in ocean chemistry will affect coral reef biology. An important task is to fully define the range of impacts on water resources associated with the consequences of climate change. A draft chart describing the potential water resources related effects associated with climate change is attached.

More information about each of these subject areas is available at the new EPA website on Climate Change: <http://www.epa.gov/climatechange/>. The Office of Water may develop additional materials addressing impacts on water programs operations in more detail and will work in consultation with the Office of Research and Development and the Office of Air and Radiation. New information concerning climate change impacts developed as part of ongoing climate change assessments will be factored into this work as it becomes available.

A key purpose of this effort is to define specific actions the National Water Program can take over the next several years to tailor the implementation of the National Water Program to better address the potential challenges posed by climate change. In other work on climate change, EPA has organized response actions into three categories:

- mitigation;
- adaptation; and
- research.

These three themes provide a framework that the Water Program Climate Change Workgroup can use to identify and develop specific program response actions. I anticipate that our focus will be primarily on adaptation (i.e. the impact of climate change on water resources and on the capacity to meet the requirements of the Clean Water Act in a changing environment). However, there are areas where the Office of Water has begun to work with other offices in mitigation, for example in geosequestration of carbon dioxide and energy efficiency. In addition, I anticipate that we will also identify areas for further research. Collectively, these actions will form the substantive core of the water

program climate change strategy. The Workgroup will focus on appropriate, effective, and feasible response actions to the effects of climate change on national water resources.

The schedule for National Water Program work related to climate change includes the following key milestones:

- initial Workgroup meeting: March 2007
- Workgroup work sessions on climate change impacts organized around the five key impact areas: March
- Workgroup work sessions to identify response actions organized around response action framework: March/April
- national “fly-in or teleconference” of EPA HQ/Regional managers: May
- first draft of water climate change strategy for internal comment: May
- stakeholder comments on draft water climate change strategy due to OW: June
- stakeholder comment period on draft water climate change strategy: July/August
- revise draft strategy based on comments: timing subject to development of supporting information and other factors.

Although the water climate change strategy will not become final until late in 2007, the National Water Program will prepare for prompt implementation of response actions on final publication of a strategy and will begin implementation at an earlier date when that is appropriate.

* * *

I would be happy to hear your thoughts and suggestions on the general subject of how the National Water Program can best respond to emerging information concerning climate change. Please provide any comments that you have on the approaches outlined in this memorandum to Jeff Peterson in the Office of Water (202-564-5771).

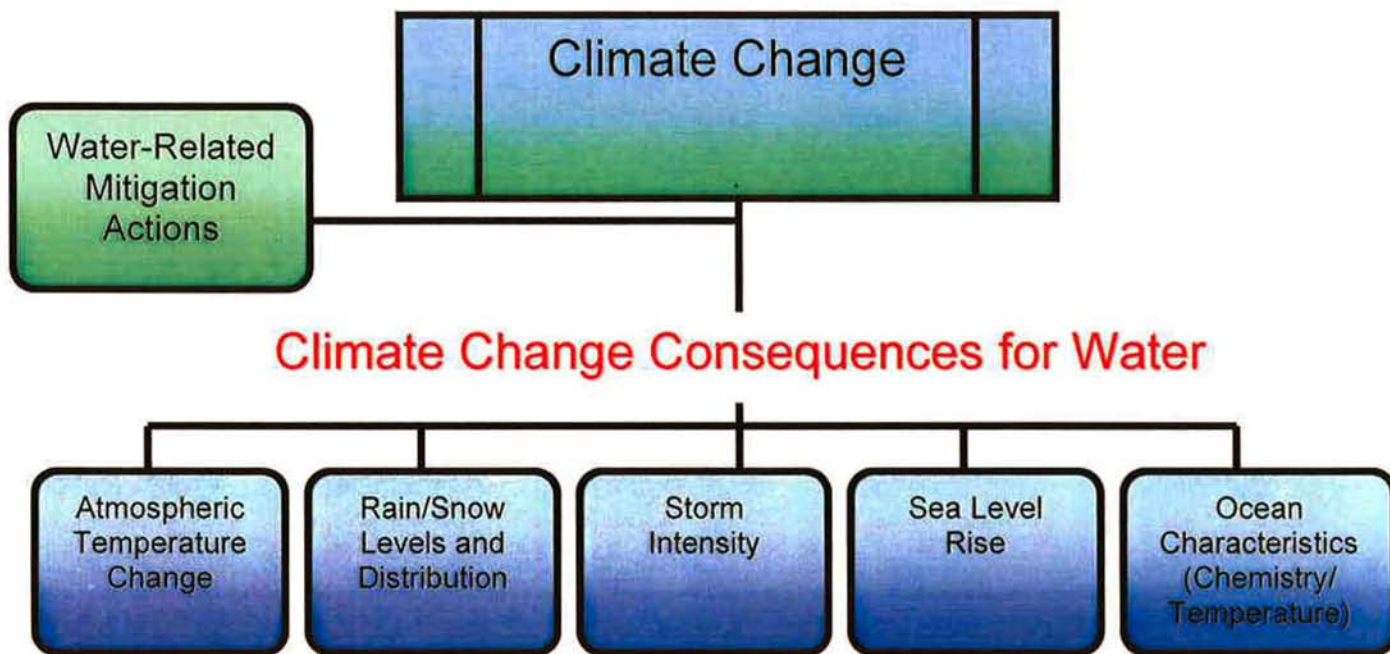
I look forward to working with you on this important effort.

cc: Michael Shapiro
Brent Fewell
Regional Administrators: Regions 1-10

ATTACHMENT

-- DRAFT Chart: Consequences of Climate Change for Water

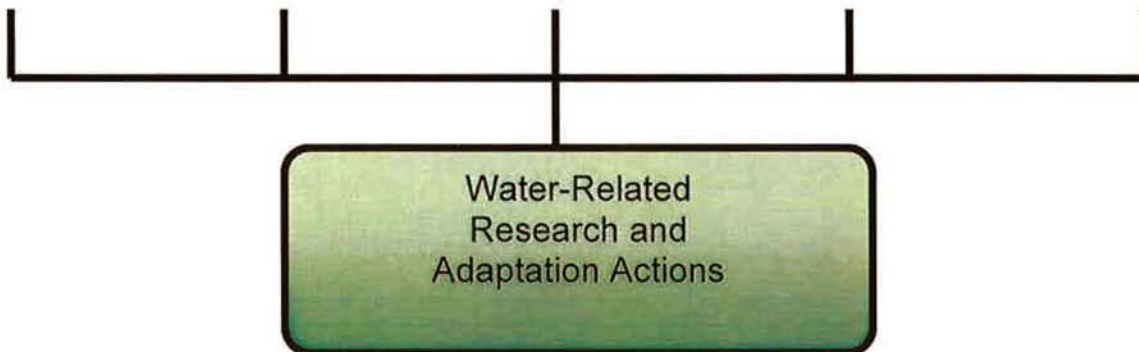
Draft



Climate Change Consequences for Water

Impacts on Water

- Spatial change in freshwater/wetlands
- Increased distribution of invasive species
- Increased human use of water
- Fisheries disruption
- Freshwater flow variations
- Drinking water supply impacts
- Expanded flooding
- Increased runoff/erosion
- High velocity flow impacts on biotic integrity
- Wetland loss
- Shore erosion
- CSO increases
- Increased runoff/erosion
- Expanded flooding
- Damage to water infrastructure
- Wetland loss
- Shore erosion
- Salt water intrusion to drinking water supply
- Inundation of treatment infrastructure
- Coral reef impacts
- Increased distribution of invasive species
- Reduced CO₂ absorption capacity



San Luis Obispo County
WaterFest 2008
www.slowaterfest.org



WaterFest 2008 made a big splash in North County! Nearly 2,000 people – including at least 500 children – came together on Saturday May 3rd to celebrate and learn about our critical local water resources during the 2nd Annual County-wide water education festival. This year’s event in Atascadero surpassed the inaugural event held last year in San Luis Obispo by reaching far more people and engaging a wider variety of educational exhibits.

“Edutainment” Highlights

Children got up-close and personal with local water wildlife through a marine touch tank provided by Avila Bay Marine Institute and live animal demonstration from Atascadero Zoo’s Wildlife on Wheels. Dozens of youngsters sat with rapt attention at the Central Coast Children’s Choir “Sail Away” performance, while others banged on drums during a water-themed sing-a-long with Drum Sync Academy. Other highlights included Supervisor Jim Patterson in the dunk tank, a meet-n-greet with Sammy Steelhead, and a giant bubble-maker. Both children and parents came away with new ideas. **“It was surprisingly informative. I thought I knew quite a bit, and I learned a little bit more.”** - Tammy Davis, Paso Robles parent.



Mission Accomplished

The dedication of the WaterFest Planning Committee and event volunteers paid off. Teachers representing 55 classrooms participated prior to the event through in-class water education activities. On May 3rd, Atascadero Sunken Garden was overflowing with families, local residents and children of all ages who interacted with 35 exhibitors through hands-on educational games with a clear take-home water message. At least 250 youth completed a WaterFest Activity Passport, and nearly a ton of old electronics were gathered for recycling by 1800GOTJUNK. Teens At Work removed a dozen bags trash removed from nearby Atascadero Creek, and all event containers were recycled. Most importantly, hundreds of county residents had a good time and were empowered to educate their friends & family about the value of clean and plentiful water.



Promotion Highlights

Four separate press releases were sent to media sources all over the county. KCBX, KZOZ, KIQO, KKAL, KKJG, and other radio stations ran nearly 100 radio announcements prior to the event. KSBY & Central Coast CW broadcast over 85 TV advertisements. Other media outlets ran stories in print and on websites including The Tribune, Atascadero News, The New Times, KVEC, and others. Your company’s name was also visible on the website, on the stage banner and all of the event posters. Plus we ran a “thank you” ad in The Tribune following the event specifically to promote sponsor participation and support.

Pat Yourself on the Back

Thank you for supporting the event and showing your commitment to our organizations, our community and our local water resources. **We sincerely appreciate the time and effort you provided.** We hope you’ll join us again next year – May 2, 2009 in South County.



WaterFest 2008 Planning Committee





San Luis Obispo County
WaterFest 2008
www.slowaterfest.org



EVENT DATA

- 2,000+ participants
- 35 hands-on exhibits
- 85 volunteers
- 31 sponsors
- 100+ media hits
- 300 completed passports
- 1.5 tons of e-waste recycled
- 55 teachers (K-8 classes)
- 12 bikes parked at bike valet
- Unlimited fun!



Save the Date!
WaterFest 2009
Saturday, May 2nd
 City of Arroyo Grande, Nelson Green





Thanks go out to all of the 2008 WaterFest sponsors that helped to make the May 3rd event in the Atascadero Sunken Gardens a huge success.



2008 Major Event Sponsors
Atascadero Mutual Water Co.



Caltrans

Event Sponsors



City of Arroyo Grande



City of Atascadero

City of Paso Robles



Ewing Irrigation

Nipomo CSD



SLO County Board of Supervisors

Templeton CSD

Wallace Group



Atascadero Chamber of Commerce

Crystal Springs Water Company

MGE Underground Inc.

Morro Group

RRM Design Group

San Luis Obispo Home Show

Vineyard Antique Mall

Service Contributors

1-800-Got-Junk

Harvey's Honeyhuts

Atascadero Waste Alternatives

Los Osos CSD

Bike Coalition

Mobile Solar Power

Bill Gaines Audio

SignCraft, Inc.

Central Coast Brewing

Surfrider - Cal Poly

City of Morro Bay





NIPOMO COMMUNITY SERVICES DISTRICT

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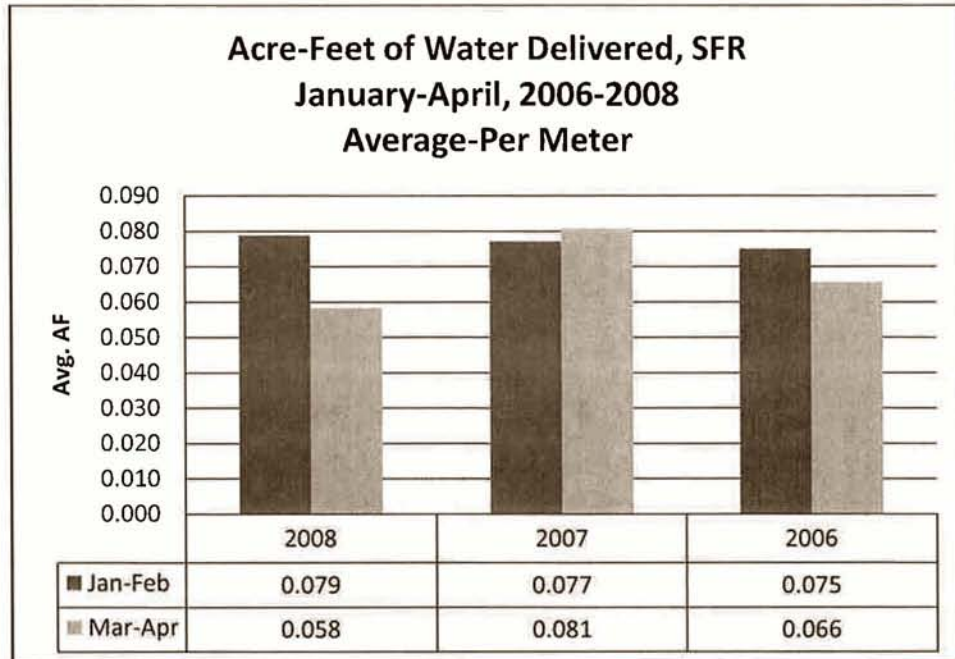
MEMORANDUM

TO: BRUCE BUEL, GENERAL MANAGER
 FROM: CELESTE WHITLOW, CONSERVATION AND PUBLIC OUTREACH
 COORDINATOR *ew*
 DATE: JUNE 25, 2008
 RE: ITEM C-2 : WATER CONSERVATION PROGRAM SEMI-ANNUAL REPORT.

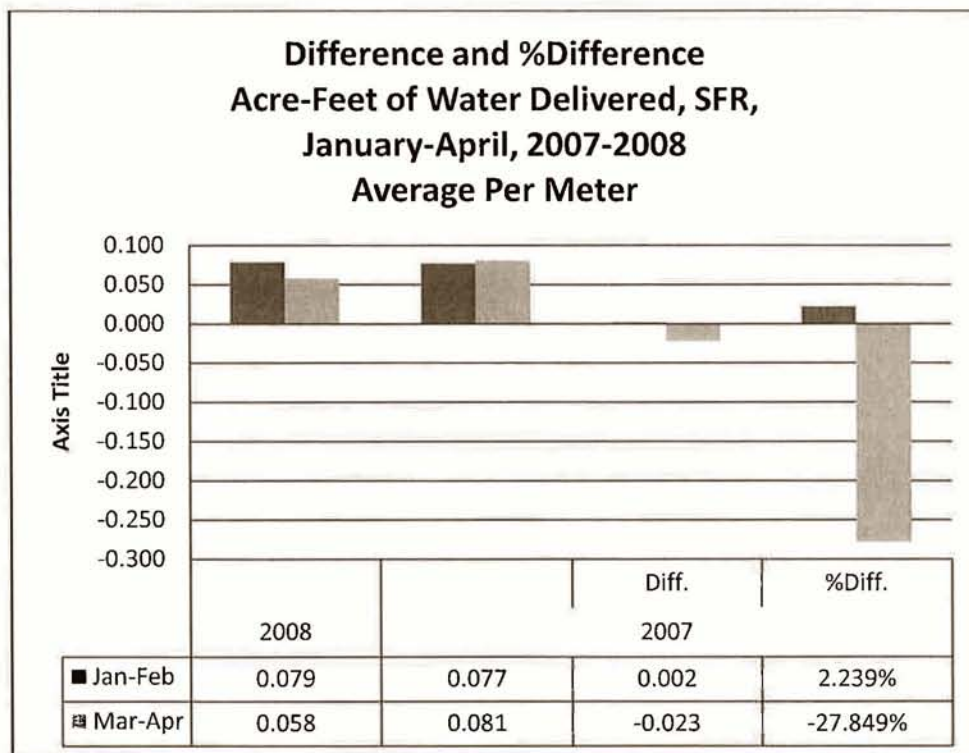
WATER CONSUMPTION COMPARISON

Note that the District uses a bi-monthly billing cycle, with one part of the District billed one month, and the other part of the District billed the next month. Each month's billing is for water delivered in the previous two months (water use billed in January will be for water delivered in November and December). In addition, the two different billing parts of town have different rates of water use, with the water use in the Town side usually lower per meter than that on the Mesa side. To find the average use per meter, two months are combined (equaling the total delivered for the district in one billing period), divided by the total meters.

ACRE-FEET OF WATER DELIVERED, SFR 2006-2008, TOTAL								
Year	Type	Jan	Feb	Mar	Apr	May	TOTAL	METERS
2008	SFR	202.28	73.94	121.66	82.59	239.63	720.10	3502
	2-Month Total AF:	276.22		204.25		239.63		
	Avg/Mtr.	0.08		0.06				
2007	SFR	178.70	89.85	203.41	77.98	211.63	761.57	3481
	2-Month Total AF:	268.55		281.39		211.63		
	Avg/Mtr.	0.08		0.08				
2006	SFR	188.84	68.16	153.99	70.79	114.46	596.24	3423
	2-Month Total AF:	257.00		224.78		114.46		
	Avg/Mtr.	0.08		0.07				



Summary. For the single-family residence category, comparing average per-meter water delivered for the years 2006, 2007 and 2008, the pattern for two-month billing-periods varied from year to year. For the months of January-February, the average AF/meter was lowest in 2006 and highest in 2008. For the months March-April, the average AF/meter was lowest in 2008, and highest in 2007.



On evaluation of the differences between water used, comparing 2007 to 2008, there was only 0.002 AF more used in January-February 2008 compared to 2007 (2.239 %difference). In 2008, March-April, there was 0.023 AF less water used when compared to 2007 (-27.85 %difference). These bi-monthly billing periods would reflect water actually delivered between November 2006 and March 2007 (2007 figures) and November 2007 and March 2008 (2008 figures).

The -27.85 %difference between 2007 and 2008, months of March-April, could be attributed to the large amount of rainfall Nipomo received in January 2008 (7.39 inches).

SUMMARY OF ACTIVITIES, JANUARY THROUGH JUNE 2008

Community Events and Educational Workshops

- Workshops: Importance of Soil and Composting, Native and Drought-Tolerant Plants, Landscape Design with Drought-Tolerant Plants, Water-Efficient Landscape Irrigation, Septic System Maintenance and Landscaping Over a Septic System.
- Blacklake meetings regarding turf replacement with drought-tolerant plants.
- Meetings with local activists and San Luis Obispo County personnel regarding Nipomo Creek.
- Chipping Event.
- San Luis Obispo County WaterFest 2008.
- Participated in planning of SLO County's plumbing retrofit program for the Nipomo Mesa; spoke before Board of Supervisors regarding smart controllers and using retrofit program as a vehicle to bring Nipomo Park's irrigation system up to maximum efficiency.

NCSD Landscape

- Researched, developed, implemented installation of NCSD's "Compost Corral."
- Researched, developed, implemented installation of tree grates.
- Researched and organized plans for District office landscape irrigation modifications.
- Researched, developed, implemented arborist assessment of landscape, removal of problem trees, production of chipped wood from trees removed; chips placed on landscape as mulch.

Professional Development

- Attendance of monthly San Luis Obispo County Partners for Water Quality meetings.
- Attendance of bi-monthly San Luis Obispo County Partners for Water Conservation meetings.
- Attended and passed written test on water auditing.
- Attended training/workshops for MS Office 2007 and smart irrigation controllers.
- Reviewed Department of Water Resources Urban Drought Workbook, Environmental Protection Agency's Response to Urban Change Program.
- Teleconferenced CUWCC meetings on revision of Best Management Practices.

Newsletters, Mailings, Advertising.

- District Newsletter and Water Conservation newsletters (preparation, mailing).
- Preparation of flyers, ads for workshops.
- Preparation, printing of water conservation brochures and handbooks.
- Preparation of water conservation newspaper ads.

- Coordination of bill stuffers.
- Preparation, translation, mailing of District's first water conservation outreach to Spanish-speaking residents.
- Graphics: All graphics (no funds were spent for graphic-arts preparation of materials).

Water Conservation Program

- Adoption of Water Conservation Program (February 2008).
- Preparation for implementation of Water Conservation Program.
- Research and initiation of high-efficiency clothes-washer rebate program through CUWCC.
- Water audit program.
- Turf-replacement program.
- Formal launch.

Office Landscape.

- Tree Grates: Finished.
- Spreading of eucalyptus wood chips on landscape: Waiting for scheduling.
- Modification of Irrigation System: Waiting for scheduling.
- Landscaping Maintenance District #1 conversion of turf to drought-tolerant plant material: Review in progress.

California Urban Water Conservation Council.

- Working with CUWCC staff on high-efficiency clothes washer program.

Other

- Research and Facilitation of NCSD Joining the California Urban Water Conservation Council.
- Research and Facilitation of Science Discovery Program for Nipomo's elementary schools.

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