



**Board of Directors**

Diane Dillon  
Mark Luce  
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Chris Sauer  
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**Alternate**

Keith Caldwell

**Staff**

**Representatives**

Patrick Lowe,  
Secretary  
Deputy Director,  
CDPD

Jeff Sharp,  
Watershed  
Coordinator  
Principal Planner,  
CDPD

Laura Anderson,  
Legal Counsel  
Attorney IV,  
County Counsel's  
Office

Sara Minahen,  
Admin. Assistant  
Office Assistant II,  
CDPD

1195 Third Street,  
Suite 210  
Napa, CA  
94559

Tel: 707-253-4417  
Fax: 707-299-4029  
info@napawatersheds.org

www.napawatersheds.org

# AGENDA

## REGULAR BOARD MEETING

Thursday, July 28, 2011, 4:00 p.m.

2nd Floor Conference Room, Hall of Justice Building,  
1125 Third Street, Napa CA

**1. CALL TO ORDER & ROLL CALL (Chair)**

**2. APPROVAL OF ACTION MINUTES**

Meeting of May 26, 2011 (Chair) (2 min)

**3. PUBLIC COMMENT**

In this time period, anyone may comment to the Board regarding any subject over which the Board has jurisdiction, or request consideration to place an item on a future Agenda. No comments will be allowed involving any subject matter that is scheduled for discussion as part of this Agenda. Individuals will be limited to a three-minute presentation. No action will be taken by the Board as a result of any item presented at this time. (Chair)

**4. PRESENTATIONS AND DISCUSSION:**

Presentation and discussion on Marin County's Watershed Program: A watershed approach to flood protection and habitat restoration - An overview of the Watershed Program's purpose and goals (Liz Lewis, Principal Planner and Chris Choo, Senior Planner, Marin County Department. of Public Works) (30 min)

(Cont.)

## 5. REPORTS, UPDATES AND DISCUSSION:

Informational reports and updates for discussion, presented by staff, members of the board and invited public (WICC Staff; Board, Others) *(55 min.)*

- a. Report on Board of Supervisors approval of a resolution to create a Napa County Groundwater Resource Advisory Committee (GRAC), committee purpose and make-up and upcoming application deadline (WICC staff, Public Works) *(10 min)*
- b. Report on Napa County's participation in the California Statewide Groundwater Elevation Monitoring Program (CASGEM), well owner outreach, and development of an approved monitoring plan to meet program requirements and future grant funding obligations (WICC staff, Public Works) *(10 min)*
- c. Update on the S. F. Bay Regional Water Quality Control Board's vineyard facilities waste discharge requirement (WDR) waiver program for the Napa River and Stakeholder Advisory Group (SAG) meetings, Irrigated Lands Agricultural Waiver program in the Putah Creek basin, as well as other State and Regional Water Board policy and regulatory programs (WICC Staff, Natural Resource Conservation Service) *(10 min)*
- d. Report on the local use of alternatives to spraying to combat European Grapevine Moth infestation in Napa County (Natural Resource Conservation Service) *(5 min)*
- e. Update on renewal of Napa County's Phase II Municipal Separate Storm Sewer System (MS4s) requirements for stormwater management to control polluted discharges/runoff, and new comment deadline of September 8, 2011 (WICC staff, Public Works) *(5 min)*
- f. Update on Integrated Regional Water Management Planning (IRWMP) efforts in the Putah Creek/Berryessa (Westside Sacramento River) area and Napa River/Suisun Creek (S.F. Bay ) area funding regions (WICC Staff, Flood Control Dist.) *(5 min)*
- g. Report on WICC presentation provided to the Board of Supervisors on June 28, 2011 (WICC Staff)
- h. Update on Zinfandel Lane Bridge Fish Passage Project - construction underway (WICC Staff, Public Works)
- i. Update on Napa County Climate Action Plan next steps (WICC Staff)
- j. Other reports and updates (WICC Staff, Board, Public)

## 6. ANNOUNCEMENTS:

Informational announcements presented by staff, members of the board and public (WICC Staff; Board, Others) *(10 min.)*

7. **FUTURE AGENDA ITEMS** (Board; WICC Staff) (5 min.)

Discussion of possible items for future agendas (WICC Staff, Board)

8. **NEXT MEETING** (Chair)

Regular Scheduled Board Meetings:

August 25, 2011 – 4:00 PM (*Postponed*)

September 22, 2011 – 4:00 PM (*Postponed*)

October 27, 2011 – 4:00 PM (*Rescheduled – GRAC meeting date/time*)

November 17, 2011 – 4:00 PM (*Save the date* – 3<sup>rd</sup> Thursday due to Thanksgiving Holiday)

Location:

Hall of Justice Building, 2<sup>nd</sup> floor Conference Room, 1125 Third Street, Napa

9. **ADJOURNMENT** (Chair)

**Note:** If requested, the agenda and documents in the agenda packet shall be made available in appropriate alternative formats to persons with a disability. Please contact Jeff Sharp at 707-259-5936, 1195 Third St., Suite 210, Napa CA 94559 to request alternative formats.





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**- MINUTES / ACTION SUMMARY -**

**REGULAR BOARD MEETING**

Thursday, May 26, 2011, 4:00 p.m.

2nd Floor Conference Room, Hall of Justice Building,  
1125 Third Street, Napa CA

**1. CALL TO ORDER & ROLL CALL (Chair)**

*Members present: Mark Luce, Peter White, Gary Kraus, Belia Bennett, Jim Lincoln, Marc Pandone, Mitchell Klug, Jason Lauritsen, Keith Caldwell*

*Members excused: Diane Dillon, James Krider, Richard Hall, Mike Basayne, Jeff Reichel, Rita Steiner, Jeffrey Redding, Chris Sauer*

*Members absent: Susan Boswell*

*Staff present: Patrick Lowe, Jeff Sharp, Sarah Minahen*

**2. APPROVAL OF ACTION MINUTES**

Meeting of March 24, 2011 (Chair)

*Approved as presented.*

**3. PUBLIC COMMENT**

In this time period, anyone may comment to the Board regarding any subject over which the Board has jurisdiction, or request consideration to place an item on a future Agenda. No comments will be allowed involving any subject matter that is scheduled for discussion as part of this Agenda. Individuals will be limited to a three-minute presentation. No action will be taken by the Board as a result of any item presented at this time. (Chair)

*None provided.*

#### 4. DISCUSSION AND POSSIBLE RECOMMENDATION:

Discussion and possible recommendation to the Board of Supervisors regarding the purpose and composition of a Napa County Groundwater Resource Advisory Committee (GRAC)

*Patrick Lowe reported. Mr. Lowe provided an overview of recent groundwater work conducted by the County and a groundwater workshop held with the Board of Supervisors (BOS) on 2/14/11. Mr. Lowe also outlined the process and draft schedule for creating the GRAC. The BOS is scheduled to consider a resolution creating the GRAC on June 28, 2011. The County's Executive Office will recruit for the committee through the end of July and the BOS could appoint committee members as early as mid September. It is anticipated that the first meeting of the GRAC would occur in late October. Mr. Lowe requested comments, suggestions and recommendations from the WICC Board on the GRACs creating resolution and by-laws.*

*Outcome: Mr. Lowe took comments from the Board and addressed questions regarding application process and appointment to the committee. The WICC Board liked the way the resolution was framed and stressed the need to keep the GRAC focused within the bounds and tasks outlined in the draft resolution and not crossover into additional regulations or ordinances (beyond pump test standards mentioned). The WICC also thought the GRACs timeframe (until 2014) is appropriate. The WICC recommended that information regarding the GRAC's work be periodically shared with the public and the WICC Board/WebCenter. It was recognized that appointment of GRAC members from each of the groundwater basins and sub-areas of the county could be difficult. The WICC Board recommended that GRAC membership priority be given to those areas, but other appointments outside of those areas may be necessary to adequately fulfill the GRAC's membership/stakeholder representation. Mr. Lowe noted that one representative may fulfill multiple appointment categories (BOS district, groundwater basin, sub-area, stakeholder group, ...).*

*WICC Board voted unanimously, recommending the BOS approve the draft resolution creating the GRAC, keep the narrow focus of the defined work tasks, prioritize the selection of GARC appointments to those individuals residing within DWR defined groundwater basins as much as possible, and that the GRAC provide regular updates to the public and WICC Board regarding its activities and actions.*

#### 5. DISCUSSION AND POSSIBLE DIRECTION:

Presentation and discussion on the Corona and Twin Peaks Mine Drainage Treatment Project and overview of legacy mining issues in and around Napa County - a proposed project to treat drainage waters from three mines in Napa County. (Bob Schneider, Senior Policy Director, Tuleyome; Stephen McCord, Senior Engineer, Larry Walker Associates.; Leif Bryant, Watershed Assistant, NCFWCWD)

*Bob Schneider, Stephen McCord and Leif Bryant presenting. Presenters reported on the status of various mining activities in the region and the impact the mining legacy has had on creeks and water quality. The presenters discussed possible means to stabilize these mining sites in ways that manage runoff (stormwater and groundwater) and prevent the contamination of nearby waterways. It was noted that if pollution from these areas could be addressed it would reduce the fiscal liabilities associated with these properties to levels where public agencies, special districts, or possibly even the County could assume ownership to promote various public benefits (open space, recreation, conservation, ...). A grant request in the amount of \$1.4 million was submitted to the California Dept. of Fish & Game to assist in cleanup*

*efforts and pilot project associated with the drainage treatment of the Corona and Twin Peaks mercury mines.*

*Outcome: Discussion of WICC letter of support and potential action item at next WICC meeting.*

## **6. REPORTS, UPDATES AND DISCUSSION:**

Informational reports and updates for discussion, presented by staff, members of the board and invited public (WICC Staff; Board, Others) (40 min.)

- a. Update on the San Francisco Bay Regional Water Quality Control Board's development of a vineyard facilities waste discharge requirement (WDR) waiver program for the Napa River watershed to assist vineyard owner compliance with the Napa River Sediment Total Maximum Daily Load (TMDL), and establishment of a Stakeholder Advisory Group (SAG) (WICC Staff) (10 min)

*Jeff Sharp reported. A sediment TMDL (pollution reduction plan) for the Napa River basin was approved by the State Water Board (10/5/10). Regional Water Quality Control Board (RWQCB) staff is currently developing a report of waste discharge waiver program for vineyard owners and managers as an optional means to comply with the TMDL. The waiver program(s) would assess and recognize certain management activities on vineyard properties in order to catalog and account for actions that address excessive sediment transport to waters of the state. RWQCB staff is organizing a stakeholder advisory group (SAG) to assist in the development of the waiver program. RWQCB staff will solicit additional community input on the waiver program as it develops. June 10, 2011 is the first scheduled SAG meeting. RWQCB staff anticipates holding around four SAG meetings before formally releasing (in late fall or winter 2011) a draft waiver program for public comment.*

- b. Report on Earth Day Celebration attendance and Napa River Clean-up held April 23<sup>rd</sup> (WICC Staff/Napa Co RCD)

*Jeff Sharp and Francis Knapczyk, RCD Education Coordinator, reported. The WICC participated in the event and displayed water and watershed related items and information. The event was well attended and many stopped by the WICC booth.*

- c. Report on Board of Supervisors' May 10<sup>th</sup> proclamation, designating May 2011 as Watershed Awareness Month in Napa County (WICC Staff; Chris Sauer, Vice Chair)

*Jeff Sharp reported. Chris Sauer received the proclamation on the behalf of the WICC Board.*

- d. Report on the Napa County 2011 Watershed Symposium, held May 19<sup>th</sup> (WICC Staff/Napa Co RCD)

*Francis Knapczyk, RCD Education Coordinator reported. About 140 people attended. The event was very well received and there was a better than expected turnout. Samples of event posters were presented. The next symposium will likely take place in May 2013.*

- e. Update on Integrated Regional Water Management Planning, report on completed Napa County Integrated Water Resource Management Planning Framework, and launch of online project database (WICC Staff, FCWCD) (10 min)

*Jeff Sharp reported. A Napa County (local) Integrated Water Management Planning Framework was presented to the Flood Board on 5/3/11. The framework will help guide local water and water resource planning/projects to better coordinate with, and participate in, larger regional IRWMP funding efforts (Bay Area & Sacramento River Area). The framework names the WICC Board as a stakeholder and an important part of local coordination efforts. An executive summary of the framework was presented to the Board. Recent IRWMP funding efforts have resulted in \$30 million dollars allocated to the SF Bay Area. In Napa County, that amounts to \$500,000 for recycled water line to Napa State Hospital, \$250,000 for Napa Valley rainwater harvesting project, and \$330,000 for Napa City/County water conservation program.*

- a. Report on recent grant agreements and contracts in support of project construction for the Zinfandel Lane Bridge Fish Passage Project and the Rutherford Reach Restoration Project (WICC Staff, Public Works)

*Jeff Sharp reported. Project agreements were signed by the Board of Supervisors on 5/17/11 and \$400,000 was accepted from the State Coastal Conservancy to help offset Measure A costs. Work is expected to start summer 2011.*

- b. Other reports and updates (WICC Staff, Board, Public)

*Jeff Sharp reported. The Rutherford Reach Restoration Project received ≈\$400,000 from the Environmental Protection Agency to offset project costs.*

## 7. ANNOUNCEMENTS:

Informational announcements presented by staff, members of the board and public (WICC Staff; Board, Others)

*Patrick Lowe reported. Fraser Shilling (UC Davis researcher) complemented the WICC and the Symposium on the level of positive community dialogue that is occurring Napa County*

## 8. FUTURE AGENDA ITEMS (Board; WICC Staff)

- a. Presentation on Marin County's watershed programs by Chris Choo, Marin County Dept. of Public Works (WICC Staff)
- b. Other items (WICC Staff, Board)

*None provided.*

9. **NEXT MEETINGS** (Chair)

Regular Scheduled Board Meetings:

June 23, 2011 – 4:00 PM (*Postponed*)

July 28, 2011 – 4:00 PM (*Save the date*)

Location:

Hall of Justice Building, 2<sup>nd</sup> floor Conference Room, 1125 Third Street, Napa

10. **ADJOURNMENT** (Chair)

*Motion to adjourn approved.*







A Tradition of Stewardship  
A Commitment to Service

**County Executive Office**

1195 Third Street, Suite 310  
Napa, CA 94559  
[www.countyofnapa.org](http://www.countyofnapa.org)

Main: (707) 253-4421  
Fax: (707) 253-4176

**Nancy Watt**  
County Executive Officer

**Contact:**

**Nadine Willoughby**, Administrative Support Technician

Committees & Commissions

(707) 253-4421

[nadine.willoughby@countyofnapa.org](mailto:nadine.willoughby@countyofnapa.org)

**FOR IMMEDIATE RELEASE**

**July 1, 2011**

**Applicants sought for Groundwater Resources Advisory Committee**

(Napa Calif--) The County Executive Officer announces openings on the newly created Napa County Groundwater Resources Advisory Committee (GRAC). The GRAC will assist County staff and technical consultants with recommendations regarding groundwater, including data collection, monitoring, well pump test protocols, management objectives, and community support.

The Napa County Groundwater Resources Advisory Committee (GRAC) will comprise fifteen (15) county residents appointed by the Board of Supervisors, representing diverse interests from a geographical perspective and interest-based perspective including, but not limited to, environmental, agricultural, development, and community interests. A familiarity with water resources is desired but not required. When possible, membership priority shall be given to those residing within State-designated groundwater basins, or surrounding watershed basins. Members will collectively address the following requirements (individual members may fulfill more than one requirement):

- One (1) member shall be a resident of each of Napa County's five Supervisorial Districts
- At least one (1) member from one of the following groundwater basins: Pope Valley, Clearlake Pleistocene Volcanic Area and Berryessa Valley
- At least one (1) member from each of the following sub-areas of the Napa-Sonoma Valley groundwater basin: Milliken-Sarco-Tulocay, Angwin, Carneros, Calistoga, St. Helena, Yountville and Napa

**-more-**

## 2-2-2-2

### Applicants sought for Napa County Groundwater Resources Advisory Commission

- At least five (5) members should work in agriculture and/or represent agricultural/wine industry interests
- At least five (5) members shall represent environmental organizations, property rights organizations, or other community-based organizations

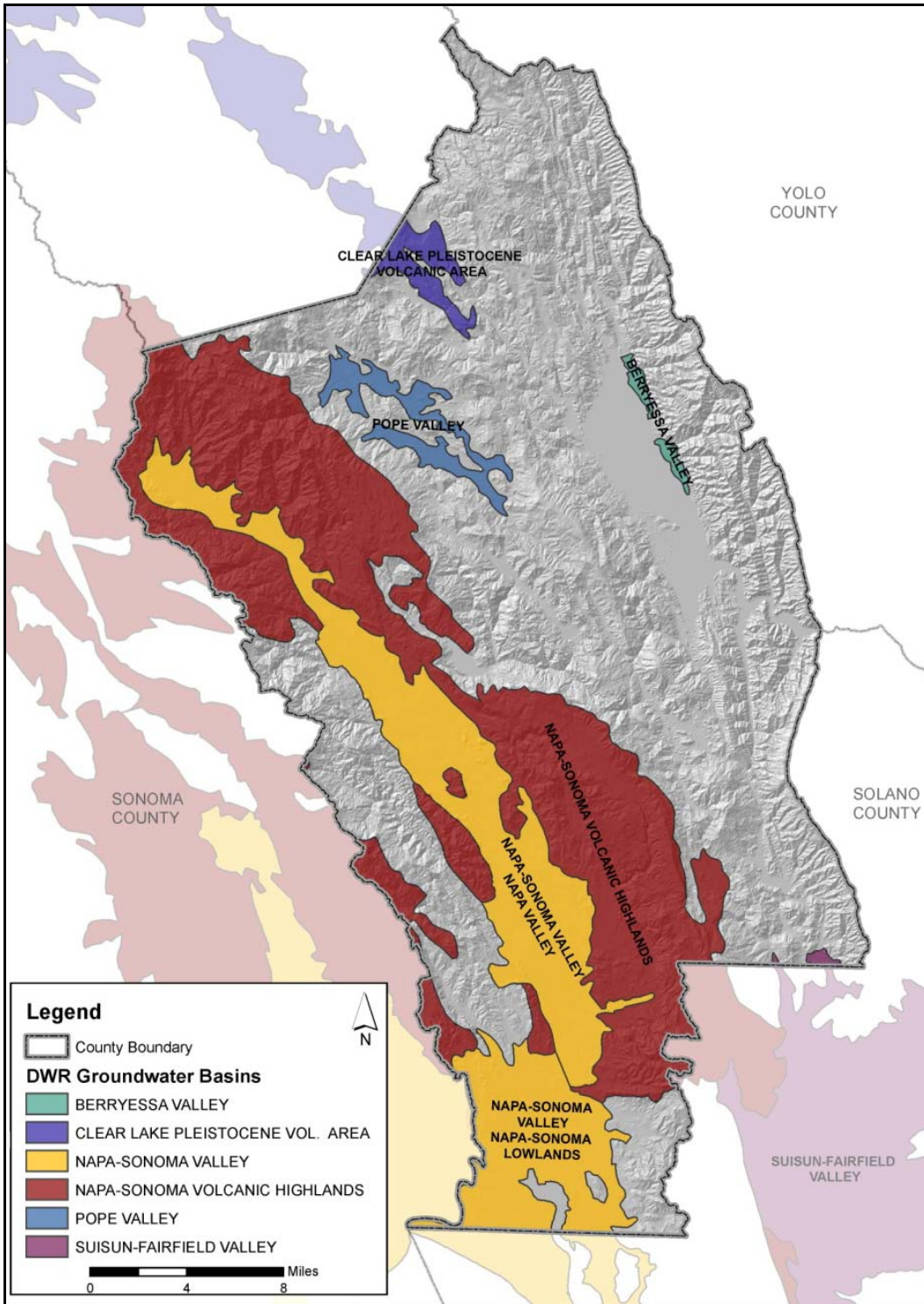
The Groundwater Resources Advisory Committee will assist the County in working collaboratively with property owners and other stakeholders to collectively address groundwater challenges and priorities, such as the identification of groundwater recharge areas, establishment and dissemination of standards for well pump testing, and the development of groundwater objectives that can be achieved through incentives and voluntary means. Once established, the GRAC will remain in existence until the end of 2014.

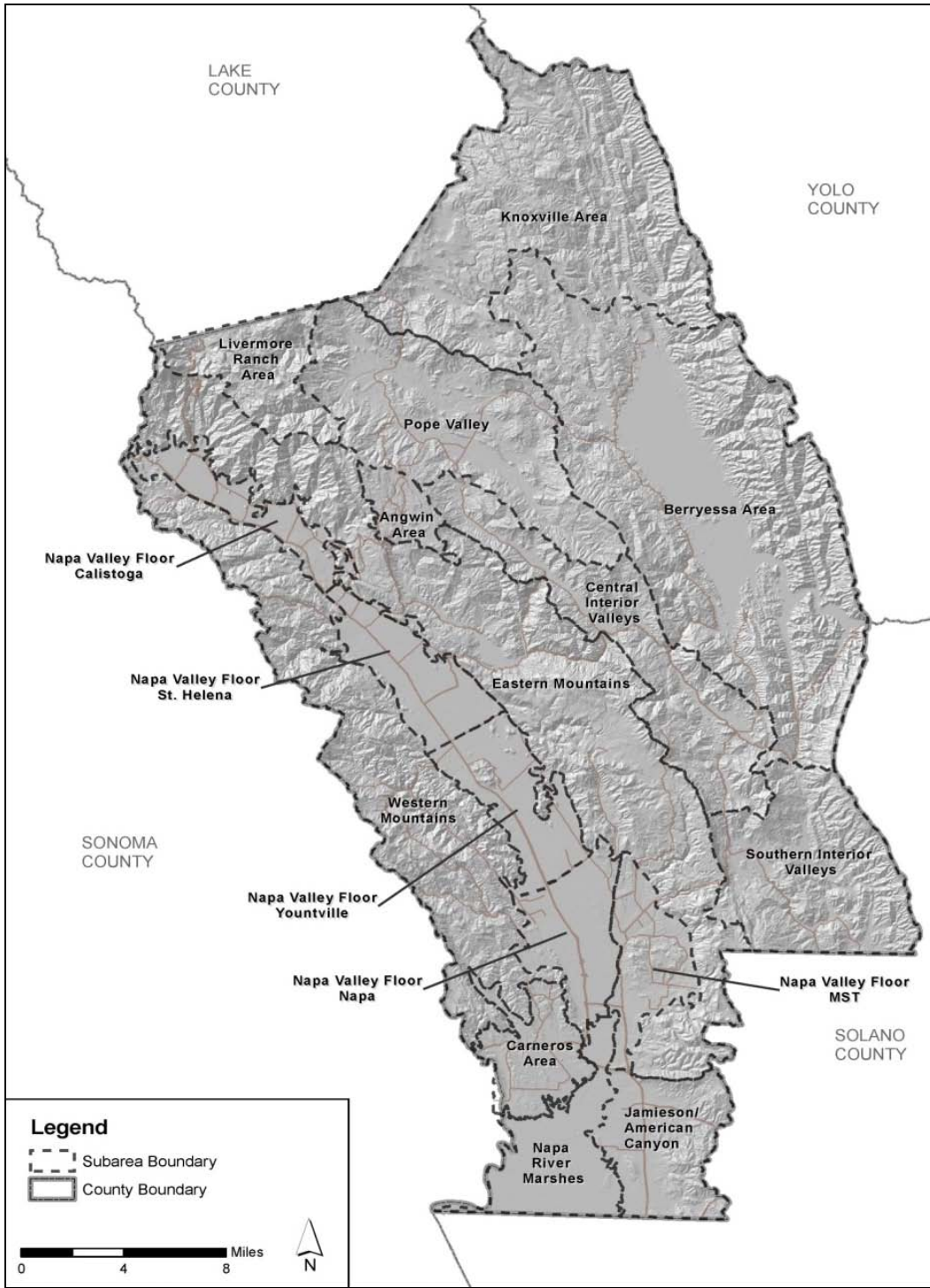
The term of office for appointed members will commence immediately upon appointment and will expire on Dec. 31, 2014. Regular meetings of the GRAC will be held on the fourth Thursday of every other month at 3:00 p.m.

Anyone interested in consideration for appointment must submit a completed application form and apply either through the above-listed coordinating agency/organization or directly to the County Executive Office, 1195 Third Street, Room 310, Napa, 94559, telephone (707) 253-4421 no later than **5:00 p.m. on July 29, 2011**. The application form is available on the Napa County website at [www.countyofnapa.org](http://www.countyofnapa.org). Go to the main County page and click on the Committees and Commissions link in the left-hand navigation under County Info. To submit an application directly online, click "application for appointment" and follow the application instructions.

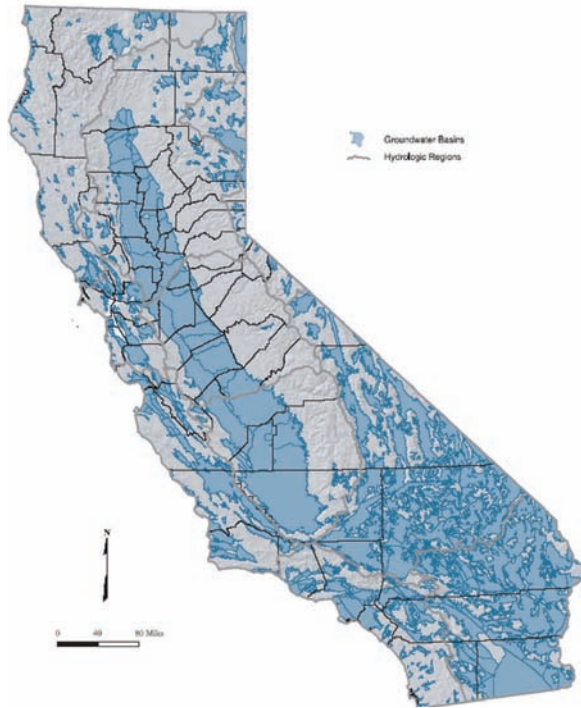
*The Board of Supervisors and staff of Napa County are dedicated to preserving and sustaining Napa County for present and future generations as a community with generous open space, a thriving agricultural industry and a quality human and natural environment. Visit us on the Web at [www.countyofnapa.org](http://www.countyofnapa.org).*

###





## California's Groundwater Basins



## How Will the Groundwater Elevation Data Be Used?

The data will be compiled in a statewide database that is available to the public. Local, state, federal, and all interested parties can use the data to evaluate and monitor groundwater conditions in California's groundwater basins and subbasins. The goal of CASGEM is to determine seasonal and long-term trends in groundwater levels within the basins.

## Contact Us About CASGEM

### Headquarters Office

Mary Scruggs  
901 P Street, Sacramento, CA 95814  
(916) 654-1324, mscruggs@water.ca.gov

### Northern Region Office

Kelly Staton  
2440 Main Street  
Red Bluff, CA 96080  
(530) 529-7344  
staton@water.ca.gov

### North Central Region Office

Chris Bonds  
3500 Industrial Blvd.  
West Sacramento, CA  
95691  
(916) 376-9657  
cbonds@water.ca.gov

### South Central Region Office

Dane Mathis  
3374 E. Shields Ave.  
Fresno, CA 93726  
(559) 230-3354  
dmathis@water.ca.gov

### Southern Region Office

Tim Ross  
770 Fairmont Avenue,  
Suite 102  
Glendale, CA 91203  
(818) 500-1645 x278  
tross@water.ca.gov

## Timeline

Preparing to Implement CASGEM:

**Summer 2010.** Public Workshops

**Fall 2010.**

- Develop, solicit public comments, and finalize program guidelines
- Develop online monitoring entity notification and data submittal system
- Local agencies work together to identify prospective monitoring entity for their basin/subbasin

**Late Fall 2010.**

- Online system ready for submission of monitoring entity notifications
- Prospective monitoring entities submit notifications to DWR

**January 1, 2011.** Notifications due to DWR

**Spring and Summer 2011.** Designated monitoring entities submit monitoring network plan to DWR

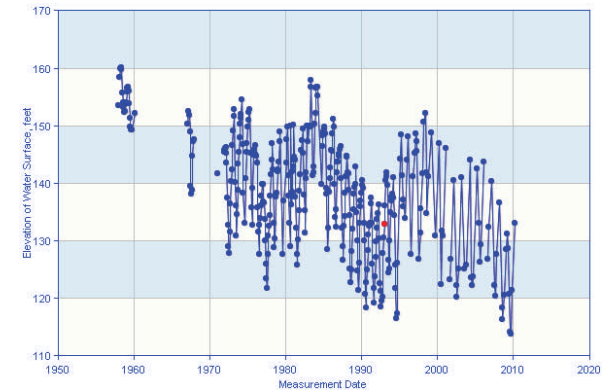
**January 1, 2012.**

- Monitoring entities begin submitting groundwater level data
- DWR submits first CASGEM status report to Governor and Legislature

## California Statewide Groundwater Elevation Monitoring Program

### CASGEM Program

# What Is CASGEM?



*On or before January 1, 2012, local groundwater Monitoring Entities will regularly and systematically monitor groundwater elevations in California's alluvial basins and subbasins in order to determine seasonal and long-term trends, and this information will be made readily and widely available to the public*



Department of Water Resources (DWR)  
California Natural Resources Agency  
State of California

## What Is CASGEM?

### What Is the CASGEM Program?

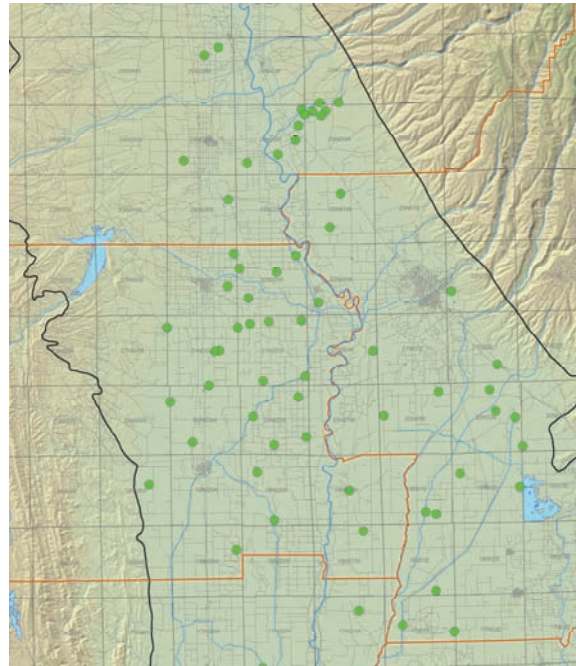
CASGEM (pronounced *KASJem*) is short for California Statewide Groundwater Elevation Monitoring.

The program was created by SBx7 6, Groundwater Monitoring, a part of the 2009 Comprehensive Water Package. By passing the bill, the Legislature established for the first time a statewide program to collect groundwater elevations, facilitate collaboration between local monitoring entities and the Department of Water Resources, and to report this information to the public.

### Why Is Groundwater Important?

In California, groundwater accounts for about 30 percent of the total water supply. During dry years, it is at least 40 percent of the supply. With a projected population of 46 million by the year 2020, California's reliance upon groundwater will increase significantly.

In order to protect and sustain the state's precious groundwater supply, proper management of this limited resource is imperative. Monitoring groundwater elevations in the state's 515 alluvial groundwater basins and subbasins is a fundamental component of successful groundwater management.



Observation well locations, Northern Sacramento Valley

### Are Groundwater Elevations Now Monitored in California?

The Department of Water Resources' four region offices monitor groundwater elevations and report the data on DWR's Water Data Library ([www.water.ca.gov/waterdatalibrary](http://www.water.ca.gov/waterdatalibrary)); however, those data are limited in some areas. Other agencies also collect groundwater elevation data, but are not required to make that data available to DWR for public use.

Implementation of the CASGEM Program will establish a statewide monitoring network for all of California's groundwater basins, and will allow that data to be used to plan for future water supply demands.

### How Does CASGEM Work?

A local agency that has jurisdiction over groundwater management in an area, as defined in the law, notifies the Department of Water Resources by January 1, 2011, that it wishes to be the designated Monitoring Entity for all or part of a groundwater basin. The Monitoring Entity defines and submits a groundwater monitoring plan to DWR that can be used to determine seasonal and long-term groundwater elevation trends in the monitoring area.

The Monitoring Entity can measure groundwater elevations or compile data from other agencies to fulfill the monitoring plan. The Monitoring Entity is also responsible for submitting that data to DWR.

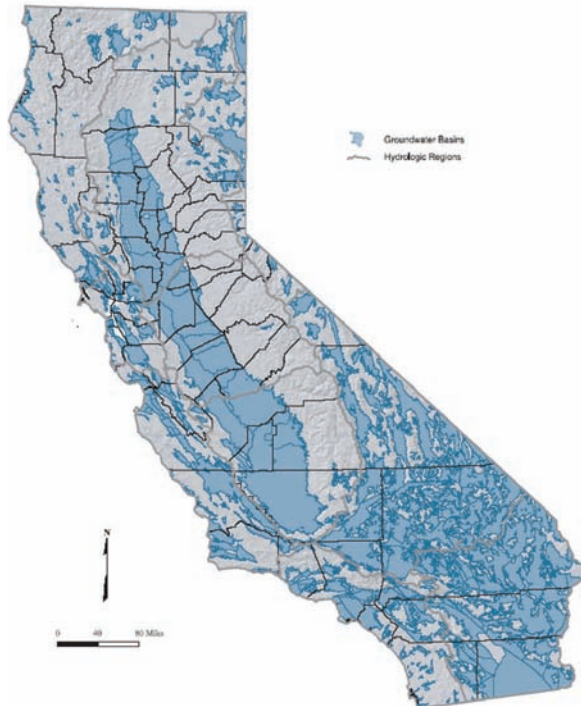
DWR will continue its current monitoring program, provided funding is available.

### Is My Participation Required?

No. However, if no prospective Monitoring Entity comes forward, then DWR will assume the monitoring in the basin. Nonparticipating agencies risk losing eligibility for state water grants.

*CASGEM Program guidelines will be available in fall 2010. The document will include full details on reporting requirements and measurement procedures.*

## California's Groundwater Basins



## Are Groundwater Elevations Now Monitored in California?

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[staton@water.ca.gov](mailto:staton@water.ca.gov)

### North Central Region Office

Chris Bonds  
3500 Industrial Blvd.  
West Sacramento, CA  
95691  
(916) 376-9657  
[cbonds@water.ca.gov](mailto:cbonds@water.ca.gov)

### South Central Region Office

Dane Mathis  
3374 E. Shields Ave.  
Fresno, CA 93726  
(559) 230-3354  
[dmathis@water.ca.gov](mailto:dmathis@water.ca.gov)

### Southern Region Office

Tim Ross  
770 Fairmont Avenue,  
Suite 102  
Glendale, CA 91203  
(818) 500-1645 x278  
[tross@water.ca.gov](mailto:tross@water.ca.gov)

## Timeline

Preparing to Implement CASGEM:

**Summer 2010.** Public Workshops

**Fall 2010.**

- Develop, solicit public comments, and finalize program guidelines
- Develop online monitoring entity notification and data submittal system
- Local agencies work together to identify prospective monitoring entity for their basin/subbasin

**Late Fall 2010.**

- Online system ready for submission of monitoring entity notifications
- Prospective monitoring entities submit notifications to DWR

**January 1, 2011.** Notifications due to DWR

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**January 1, 2012.**

- Monitoring entities begin submitting groundwater level data
- DWR submits first CASGEM status report to Governor and Legislature

# California Statewide Groundwater Elevation Monitoring Program

## CASGEM Program

# What Is My Role as a Well Owner?



Department of Water Resources (DWR)  
California Natural Resources Agency  
State of California

## What Is My Role as a Well Owner?

### What Is the CASGEM Program?

CASGEM (pronounced *KASJem*) is short for California Statewide Groundwater Elevation Monitoring.

The program was created by SBx7 6, Groundwater Monitoring, a part of the 2009 Comprehensive Water Package. By passing the bill, the Legislature established for the first time a statewide program to collect groundwater elevations, facilitate collaboration between local monitoring entities and the Department of Water Resources, and to report this information to the public.

### What Does CASGEM Require?

Participation in the program is voluntary for both local agencies acting as Monitoring Entities and well owners.

The CASGEM Program provides a mechanism for local agencies to take an active role in groundwater monitoring in their groundwater basin. Local agencies with jurisdiction over groundwater management in a basin may apply to be designated the groundwater Monitoring Entity for their area.

Monitoring Entities are responsible for generating a monitoring network plan, compiling groundwater elevation data, and submitting that data to the Department of Water Resources.



### More Questions and Answers

#### **Can anyone monitor my well without my permission?**

No. Neither the Department of Water Resources nor any other agency has authority as part of the CASGEM Program to enter private property without the consent of the landowner.

#### **Is my well going to be metered by the state?**

No. Well-metering is not part of CASGEM.

#### **Will CASGEM cost me money?**

No. There is no cost to the well owner.

#### **As a well owner, do I have to monitor the groundwater elevations in my well and send the data to the State?**

No. If you choose to have your well monitored as part of the CASGEM Program, the local Monitoring Entity will be responsible for coordinating collection and reporting of groundwater elevations.

### How Can I Participate?

If you want your well included in the groundwater elevation monitoring network, please contact DWR region staff to identify the potential monitoring entity in your area. During development of the monitoring network plan, determination of the need for specific wells will be made.

### How Will the Groundwater Elevation Data Be Used?

The data will be compiled in a statewide database made available to the public. Local, state, federal, and all interested parties can use the data to evaluate and monitor groundwater conditions in California's groundwater basins and subbasins. The goal of the CASGEM Program is to determine seasonal and long-term trends in groundwater levels within the basins.

### How Long Will CASGEM Last?

CASGEM a long-term program that requires the Department of Water Resources to produce a summary report to the Governor and Legislature in years 2012 and 2015, and every 5 years thereafter.

*CASGEM Program guidelines will be available in fall 2010. The document will include full details on reporting requirements and measurement procedures.*



## European Grapevine Moth, *Lobesia botrana*: Provisional Guidelines

(Updated 2/11)

### Grape pest management guidelines

*Lobesia botrana*, European grapevine moth was first reported in the United States from Napa County vineyards in October 2009. Native to Southern Italy, it was first described from Austria and is now found throughout Europe, North and West Africa, the Middle East, and eastern Russia. It was more recently introduced into Japan, and in 2008, it was first reported in Chile. It belongs to the family Tortricidae, sub-family Olethreutinae. Earlier species names included *Polychrosis botrana* and *Eudemis botrana*. In Europe, some of the common names are *eudemis* (France); *tignolleta della vite* (Italy); *bekreuzter traubenwickle* (Germany); *polilla del racimo* (Spain); and European grape berry moth and European vine moth (English-language literature).



Adult female European grapevine moth.

Grape (*Vitis vinifera*) and spurge laurel (*Daphne gnidium*) are preferred hosts, but it has also been reported on blackberry (*Rubus fruticosus*), gooseberry (*Ribes* sp.), black and red currant (*Ribes nigrum*), olive (*Olea europaea*), cherry (*Prunus avium*), prune (*Prunus domestica*), persimmon (*Diospyrus kakis*), kiwi (*Actinidia chinensis*), pomegranate (*Punica granatum*), carnation (*Dianthus* spp.), and a number of other wild hosts.



Feeding by larvae of European grapevine moth results in contamination of bunches with webbing, frass, and fungal infections.

Another species of grape berry moth, *Endopiza viteana*, is found east of the Rocky Mountains. This species is native to the eastern United States and causes damage very similar to that of *L. botrana*, but the two species should not be confused. They differ in many ways, including life cycle, host range, pheromone composition, and natural enemies (the Hymenoptera parasitoids in particular). In other regions of the world, including Europe, numerous species are commonly referred to as berry and vine moths, thus it is important to verify the scientific name *Lobesia botrana* when searching the literature for information on this pest.

### Damage

In May and June, first-generation larvae web and feed on the flower clusters. Second-generation larvae (July-August) feed on green berries. Young larvae penetrate the berry and hollow them out, leaving the skin and seeds. Third-generation larvae (August-September) cause the greatest damage by webbing and feeding inside berries and within bunches, which become contaminated with frass (excrement). Additionally, feeding damage to berries after veraison exposes them to infection by *Botrytis* and other secondary fungi such as *Aspergillus*, *Alternaria*, *Rhizopus*, *Cladosporium*, and *Penicillium*. Secondary pests such as raisin moth (*Cadra figulilella*), fruit flies, and ants may also be attracted to damaged berries.



Grapevine moth larvae hollow out berries, leaving behind the skin and seeds.

### Identification

The adult moth is approximately 0.24 to 0.3 inch (6-8 mm) long, with a wingspan of 0.4 to 0.5 inch (11-13 mm), with the female being slightly larger. Both males and females have similar mosaic-patterned wings. The first pair of wings (forewings) is tan-cream in color, mottled with gray-blue, brown, and black blotches. The second pair of wings is gray with a fringed border. The wings are held in a bell shape over the abdomen when at rest.

Unlike other common vineyard tortricids, which lay eggs in overlapping masses, eggs of *L. botrana* are laid singly. The eggs are elliptical and flat, approximately 0.025 to 0.03 inches (0.6-0.8 mm) in diameter. These lentil-shaped eggs are visible to the naked eye. Initially they are iridescent creamy white, turning yellow as the embryo develops and later black when the head of the developing larva is formed. The larva emerges from the edge of the egg and leaves the translucent, iridescent chorion (outer shell) attached.

The larvae are similar to other tortricids. There are 5 immature stages (instars) with sizes ranging from 0.04 inch (1 mm) at emergence to approximately 0.5 to 0.6 inch (12-15 mm) when fully grown. Upon emergence the larva is creamy white with a black head. As it develops the head and pro-thoracic shield (first segment behind the head) is tan to yellowish brown in color. The rear edge (closest to the body) of the pro-thoracic shield has a darker brown to black border. In early stages the body is tan to yellow-brown. In later larval stages, the cuticle is transparent, such that the body takes on the color of its gut contents (from dark green to shades of dark pink and maroon). White tubercles at the base of the body hairs are quite visible on mature larvae. The thoracic legs are dark brown to black. The anal comb, a toothed structure on the last abdominal segment, has 5 to 6 dark brown teeth.

Fifth instar larvae spin a grayish-white silken cocoon in which they pupate. The male pupa is approximately 0.16 to 0.28 inch (4-7 mm) long and the female is 0.2 to 0.35 inch (5-9 mm) long.

### Seasonal life cycles

European grapevine moth has two generations in northern Europe, three generations in southern Europe and it is reported to have a partial fourth generation in warmer regions of Spain, Greece, Jordan, and Egypt. The first-generation population tends to be the largest, although it is not the most damaging. Pupae overwinter in diapause (a resting state) inside silken cocoons found under the bark on the underside of cordons and arms, in soil cracks, or in hidden places on trellis posts. Adults of the first generation emerge when air temperatures exceed a threshold of 50°F (10°C) for a period of 10 to 12 days. Adult males emerge about a week before females. The first male flight may begin as early as bud break and continue for 4 to 5 weeks. Adults remain hidden during the day, emerging to fly at dusk if temperatures are above 53.6°F (12°C). Mating occurs in flight. The majority of females mate only once although they are capable of mating multiple times. Egg laying begins one or two days after mating. Eggs of the first generation are glued singly on flat surfaces on or near the flower cluster (e.g., on the bunch peduncle or on the flower calyptra). A female can lay as many as 35 eggs a day for about 6 days, with a mean of 80 to 140 eggs laid per female, depending on the generation. Adult lifespan is from 1 to 3 weeks depending on climatic conditions.

Egg hatch depends on temperature, and ranges from 3 to 5 days under optimal conditions in summer to 10 to 11 days in spring when conditions are less favorable. The first generation larvae web flower parts together and feed on individual flowers and pedicels; they may enter the peduncle and cause the bunch to dry up. Like other tortricid larvae, when disturbed they will wiggle and drop on a silken thread. Larval development is completed in 20 to 30 days depending on temperature. Pupation occurs inside a webbed cocoon that may be found on the flower cluster, under the bark on cordons, or in soil cracks. Adults emerge 6 to 14 days after pupation. The adult and egg stages are considered the most vulnerable to environmental factors.



The shell (chorion) of a European grapevine moth egg, from which the larva has emerged, on the surface of a grape berry.







Exit hole in a parasitized European grapevine moth egg.



Larvae of European grapevine moth have dark legs and a dark marking on the outside, rear edge of the prothoracic shield.



Earlier stages of European grapevine moth larvae are tan to yellow-brown (top). Later stages become dark colored (bottom).

Biological Cycle of <i>Lobesia botrana</i> (guidelines for Northern Italy)										
	Jan / Feb	March	April	May	June	July	August	Sept	Oct	Nov / Dec
Egg 										
Larva 										
Pupa 										
Adult 										

Zangheri S, Briolini G, Cravedi P, Duso C, Molinari F, Pasqualini E. 1992. Lepidotteri dei fruttiferi e della vite. Copyright by Bayer S.p.A. Milan. May not be reproduced without permission from Bayer CropScience S.r.l., Milan, Italy.

This life cycle is for Northern Italy which is at approximately 42 to 44° North Latitude, while Napa is at 38°N.

The second- and third-flight female moths lay eggs individually on shaded berries. Shortly after the larva emerges it enters a berry and hollows it out as it feeds. A single bunch may be infested with several larvae. Webbing, frass, and fungal infection may result in extensive contamination of the bunch.

The lower and upper developmental thresholds are 50°F (10°C) and 86°F (30°C), respectively although some authors report that the lower threshold is as low as 7°C. Optimal development conditions are 79 to 84°F (26-29°C) and 40 to 70% humidity. Shorter day lengths and cooler temperatures initiate diapause. Although larvae may die when temperatures fall below 46.4°F (8°C), a diapausing pupa can withstand even the cold northern European winters. Some authors report that larvae die when the temperature exceeds 93°F (34°C).

The first generation is shorter than the summer generations. Using the 50°F (10°C) and 86°F (30°C) lower and upper developmental thresholds, eggs hatch in about 118 degree-days Fahrenheit (DDF) or 66 degree-days Celsius (DDC). Larvae feeding on flower clusters are reported to develop faster than those feeding on grape berries later in the season, and this influences generation time. Nondiapausing pupae require about 234 DDF (130 DDC) to develop. Adult females may lay eggs about 110 DDF (61 DDC) after emergence. Estimates of DD for a generation vary considerably in the literature, from 767 DDF (427 DDC) to 1039 DDF (577 DDC) in the first generation to 868 DDF (482 DDC) to 1039 DDF (577 DDC) in later generations. While it is clear that research needs to be done in California to clarify developmental time, our preliminary estimate would be about 833 DDF (463 DDC) for the first generation and 904 DDF (502 DDC) for the second generation.

#### Monitoring [Degree-days](#) [2011 Weekly DD info](#)

Sex pheromone attracts males and is used to monitor male flights. Before bud break, place red delta-style traps with *L. botrana* lures high in the canopy, preferably higher than 5 feet above the ground. Place at least one trap per 30 acres or per vineyard block if smaller. Change lures according to manufacturer's recommendations. Check traps weekly, recording the number of moths caught and removing trapped moths from the sticky trap bottom. Plot the weekly catches to determine initiation and peak of male flights in each generation. Continue monitoring with traps until the peak of the third flight.

Insecticide applications should be timed for larval emergence, thus monitoring egg laying and determining egg hatch are essential to management of this pest. For the first generation, egg laying should be monitored from the peak until the end of the flight. Search for eggs on the peduncle of 100 clusters, selecting one cluster per vine. Note the stage of the majority of the eggs found. Eggs are white when recently laid, turning yellow and later black when larvae are near emergence. A translucent egg chorion indicates the larva has emerged.



Larvae of European grapevine moth have prominent white spots at the base of the body hairs.



Pupa of European grapevine moth inside its silken cocoon.

After egg hatch, look for webbing of flower parts. Open up the webbing and look for feeding damage and larvae.

Begin monitoring for second- and third-generation eggs on berries one week after the first moths of the respective flight are caught in the traps. Continue monitoring for eggs weekly until one week after peak flight. Inspect 100 bunches, selecting one per vine. Continue monitoring bunches for feeding damage (holes or hollow berries), webbing, and presence of larvae.

### Management

In countries where *L. botrana* is established, control measures are targeted at the second generation. This is due in part to the prolonged emergence of the first generation and because of possible reinfestation from untreated neighboring vineyards. However, treatment of the first generation is recommended if populations are high or if treatments are conducted on an area-wide basis. Under California conditions, control of both first and second generations may be warranted, given that this is a newly introduced pest. Insecticides are less effective after bunch closure.

Several reduced-risk insecticides are registered for use in grapes to control tortricid larvae. These include insect growth regulators, spinosyns, and *Bacillus thuringiensis*.

Mating disruption has been studied in Europe for several years. It has proven most effective when grapevine moth populations are low and when applied to large areas of over 10 acres or areawide. Biocontrol Isomate-EGVM is registered for *L. botrana* pheromone mating disruption.

Numerous predators and parasitoids are reported in the European literature. Among the parasitoids are 4 species of tachinid flies and nearly 100 species of parasitic wasp in the ichneumonid, braconid, pteromalid and chalcidoid families. The parasites that are reported to cause the greatest impact are those attacking the overwintering pupa. In Spain these include the pteromalids *Dibrachys affinis* and *D. cavus*, which are reported to cause up to 70% pupal mortality, whereas in Italy the ichneumonids *Dicaelotus inflexus* and *Campoplex capitator* are the most important.

### Authors

Lucia G. Varela, UC Cooperative Extension and Statewide IPM Program  
Frank Zalom, Department of Entomology, UC Davis  
Monica Cooper, UC Cooperative Extension, Napa County

### Acknowledgements

We thank Jeffrey Erwin, Napa County Agriculture Commissioner's Office and Marc Epstein, California Department of Food and Agriculture Plant Pest Diagnostic Center for the review of this manuscript.

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Statewide IPM Program, Agriculture and Natural Resources, University of California  
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Linda S. Adams  
Acting Secretary for  
Environmental Protection

# State Water Resources Control Board

Charles R. Hoppin, Chairman  
1001 I Street • Sacramento, California 95814 • (916) 341-5603  
Mailing Address: P.O. Box 100 • Sacramento, California • 95812-0100  
FAX (916) 341-5621 • <http://www.waterboards.ca.gov>



Edmund G. Brown Jr.  
Governor

## NOTICE OF OPPORTUNITY FOR PUBLIC COMMENT

### DRAFT GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)

**NOTICE IS HEREBY GIVEN THAT** the State Water Resources Control Board (State Water Board) will receive comments on the draft Tentative Order for the Phase II Small MS4 General Permit. Written comments must be received by **12:00 noon on Monday, August 8, 2011** and addressed to:

Jeanine Townsend, Clerk to the Board  
State Water Resources Control Board  
P.O. Box 100, Sacramento, CA 95812-2000 (by mail)  
1001 I Street, 24th Floor, Sacramento, CA 95814 (by hand delivery)

Comment letters may be submitted to the Clerk of the Board via email at: [commentletters@waterboards.ca.gov](mailto:commentletters@waterboards.ca.gov) (15 megabytes, or less, in size); or by fax at (916) 341-5620. Please indicate in the subject line "**Comment Letter – Phase II Small MS4 General Permit.**"

Comments may also be hand delivered. Couriers delivering comment letters must check in with lobby security personnel on the first floor of the Cal/EPA Building at the above address. Questions on comment submittal may be directed to Ms. Townsend, at (916) 341-5600.

### BACKGROUND

On December 8, 1999, U.S. EPA promulgated the Storm Water Phase II Final Rule under authority of the Clean Water Act (CWA) § 402(p)(6). The regulations require State Water Board to issue an NPDES permit for operators of Small MS4s. The Tentative Order is an NPDES General Permit and only certain operators of Small MS4s that meet specific criteria and discharge to Waters of the State are subject to the Order. The Tentative Order updates the existing General Permit, SWRCB, [Water Quality Order No. 2003-0005-DWQ, NPDES General Permit CAS000004](#).

### FUTURE PUBLIC HEARING, BOARD WORKSHOP, AND ADOPTION MEETING

Staff will conduct informal workshops on the Tentative Order in June and July 2011. A public hearing on the draft Tentative Order will be scheduled in November 2011. Staff expects to submit the final Tentative Order for State Water Board adoption in January 2012. Public notices providing the specific dates for the workshops, public hearing, board adoption meeting and any other public notices related to this Tentative Order will be posted on the State Water Board's website at [http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/](http://www.waterboards.ca.gov/water_issues/programs/stormwater/) and will be distributed through the Lyris e-mail list serve.

Any person desiring to receive future public notices regarding this Tentative Order must sign up for the Lyris e-mail list. To sign up for the Lyris list, access the E-mail List Subscription form, check the box for municipal storm water permitting, and fill in the required information. The subscription form is at:

[http://www.waterboards.ca.gov/resources/email\\_subscriptions/swrcb\\_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml)

#### DOCUMENT AVAILABILITY

The draft Tentative Order is available on the State Water Board's website at:

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/phase\\_ii\\_municipal.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml)

You may also receive a copy of the draft tentative order by contacting Christine Sotelo at [csotelo@waterboards.ca.gov](mailto:csotelo@waterboards.ca.gov) or (916) 322-1400.

Questions on this notice may be directed to: Christine Sotelo at (916) 322-1400

([csotelo@waterboards.ca.gov](mailto:csotelo@waterboards.ca.gov)), Eric Berntsen at (916) 341-5911

([eberntsen@waterboards.ca.gov](mailto:eberntsen@waterboards.ca.gov)) or Emel Wadhvani, Staff Counsel, at (916) 322-3622

([ewadhvani@waterboards.ca.gov](mailto:ewadhvani@waterboards.ca.gov)).

June 7, 2011

Date



Jeanine Townsend  
Clerk to the Board



**Linda S. Adams**  
Acting Secretary for  
Environmental Protection

# State Water Resources Control Board

## Executive Office

**Charles R. Hoppin, Chairman**  
1001 I Street • Sacramento, California 95814 • (916) 341-5603  
Mailing Address: P.O. Box 100 • Sacramento, California • 95812-0100  
Fax (916) 341-5621 • <http://www.waterboards.ca.gov>



**Edmund G. Brown Jr.**  
Governor

## NOTICE OF PUBLIC WORKSHOP

**The State Water Resources Control Board will conduct  
a workshop to consider comments on the**

### **DRAFT GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)**

**The Public Workshop will commence on  
Wednesday, August 17, 2011, at 9:00 a.m.**

Coastal Hearing Room – Second Floor  
Joe Serna, Jr. Cal/EPA Headquarters Building  
1001 “I” Street, Sacramento, CA 95814

#### **SUBJECT OF THE WORKSHOP**

The State Water Resources Control Board (State Water Board) released for public comment a draft General NPDES Permit for Storm Water Discharges from Small MS4s (Tentative Order). The State Water Board will hold a public workshop to consider oral comments on the Tentative Order. This workshop is being held in addition to, not in place of, the Public Hearing on the Tentative Order, which is still expected to be held in November.

#### **BACKGROUND**

On December 8, 1999, U.S. EPA promulgated the Storm Water Phase II Final Rule under authority of the Clean Water Act (CWA) § 402(p)(6). The regulations require the State Water Board to issue an NPDES permit for operators of Small MS4s. The Tentative Order updates the existing General Permit, SWRCB, Water Quality Order No. 2003-0005-DWQ, NPDES General Permit CAS000004.

#### **PROCEDURAL MATTERS**

A quorum of the State Water Board may be present at the workshop, but no formal Board action will be taken. After receiving information from the public, the State Water Board may provide direction to staff regarding modifications to the Tentative Order.

The Tentative Order was noticed for public comment on June 7, 2011. Written comments are due by noon, August 8, 2011. **Please note that this notice does not extend the public comment period.** Interested parties are encouraged to summarize their written comments at the workshop. The Board may impose time limits on oral comments. Documents related to this workshop are available electronically at

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/phase\\_ii\\_municipal.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml)

Live video broadcast of the workshop will be available at <http://www.calepa.ca.gov/Broadcast/>

*California Environmental Protection Agency*



In an effort to reduce reliance on paper mailings, notices and other information distributed by the State Water Board are provided primarily by email. To receive the follow-up information on this workshop, you must subscribe to the Storm Water Municipal Permitting Issues notification list located on the State Water Board's website: [http://www.waterboards.ca.gov/resources/email\\_subscriptions/swrcb\\_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml). An interested party that does not have access to e-mail must contact the staff member listed below to request paper copies of future notices.

**PARKING AND ACCESSIBILITY**

A parking garage is located across from the Joe Serna Jr./Cal/EPA building with entrances on 10th and 11th Streets between "I" and "J" Streets. Metered parking spaces are also available near the building. For a map, refer to the State Water Board's Web site: <http://www.calepa.ca.gov/EPAbldg/location.htm>.


Please note: All visitors to the Joe Serna Jr./Cal/EPA Building are required to sign in and receive a badge at the Visitor Services Center located inside the main entrance (10th Street entrance). Valid picture identification may be required due to the security level. Please allow up to 15 minutes for receiving clearance before proceeding to the Coastal Hearing Room on the 2nd floor.

The Joe Serna Jr./Cal/EPA Building is accessible to persons with disabilities. Individuals who require special accommodations are requested to call (916) 341-5880 at least five working days prior to the meeting date. Persons with hearing or speech impairments can contact us by using the California Relay Service Telecommunications Device for the Deaf (TDD). TDD is reachable only from phones equipped with a TDD Device.

HEARING IMPAIRED RELAY SERVICE: TDD to voice 1 800-735-2929; voice to TDD 1-800-735-2922.

Questions regarding this notice may be directed to Ms. Christine Sotelo at (916) 322-1400 or [csotelo@waterboards.ca.gov](mailto:csotelo@waterboards.ca.gov).

\_\_\_\_\_  
Date            July 18, 2011

  
\_\_\_\_\_  
Jeanine Townsend  
Clerk to the Board

# **Draft Phase II Small MS4 General Permit Overview**

**Christine Sotelo & Eric Berntsen  
State Water Resources Control Board  
Division of Water Quality  
Storm Water Section**

# Who does the Draft Phase II Small MS4 General Permit apply to?

- Traditional MS4s - municipalities, cities & counties
- Non-traditional MS4s - state or federal facilities, special districts (universities, prisons, military bases, schools)
- Renewal Permittees - any MS4 currently designated
- New Permittees - Both Traditional & Non-traditional MS4s

# Draft General Permit Timeline

- Existing permit - expired in 2008
- Spring 2008 - Began Stakeholder Process
- June 7, 2011 - Draft Released for Public Comment - 60 days
- August 8, 2011 - Comments Due
- August 17<sup>th</sup> - Board Member Workshop
- October - 2<sup>nd</sup> Draft Released - 30 day Public Comment
- November 2011 - Public Hearing
- January 2012 - Board Adoption Hearing

# Significant Changes

## Draft General Permit

1. Remove Requirement for a Storm Water Management Plan
2. Specific Management Measures
3. Designation Criteria & Waiver Certification
4. Specific Provisions for Traditional and Non-Traditional MS4s
5. Program Management and Industrial/Construction Inspection Program
6. Trash Reduction Program
7. SMARTS used for NOIs and Reports
8. Watershed-based approach to post-construction
9. Specific TMDL Implementation Requirements
10. Receiving Water Monitoring
11. Program Effectiveness Assessments



A Tradition of Stewardship  
A Commitment to Service

Agenda Date: 6/28/2011  
Agenda Placement: 9F  
Set Time: 11:15 AM  
Estimated Report Time: 15 Minutes

## NAPA COUNTY BOARD OF SUPERVISORS Board Agenda Letter

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**TO:** Board of Supervisors  
**FROM:** Hillary Gitelman - Director  
Conservation, Development & Planning  
**REPORT BY:** Jeff Sharp, PRINCIPAL PLANNER - 259-5936  
**SUBJECT:** Watershed Information Center and Conservancy (WICC) Board Presentation

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### **RECOMMENDATION**

Director of Conservation, Development and Planning to present a brief summary of the services and activities of the Watershed Information Center and Conservancy (WICC) Board, followed by Board of Supervisors discussion and possible direction.

### **EXECUTIVE SUMMARY**

Staff of the Department of Conservation, Development and Planning will provide the Board with a brief presentation regarding the services and activities of the Watershed Information Center and Conservancy (WICC) Board of Napa County. The WICC Board serves as an advisory committee to the Board of Supervisors and as a conduit for citizen input regarding watershed resources. The WICC also supports data collection, analysis and monitoring efforts related to the health of the watershed. Staff's presentation will provide background on the WICC Board, highlight its recent accomplishments, and offer future near-term goals for the Board's discussion and possible direction.

### **PROCEDURAL REQUIREMENTS**

1. Staff presentation
2. Public comments
3. Board of Supervisors discussion and direction

### **FISCAL IMPACT**

Is there a Fiscal Impact? No

**ENVIRONMENTAL IMPACT**

There is no environmental impact for this item.

**BACKGROUND AND DISCUSSION**

Staff of the Department of Conservation, Development and Planning will provide the Board with a presentation on the services and activities of the Watershed Information Center and Conservancy (WICC) Board of Napa County. The presentation will provide a brief background on the WICC Board, highlight its recent accomplishments and will offer near-term goals for discussion and possible direction.

The Watershed Information Center and Conservancy (WICC) Board of Napa County was created in 2002 to support the community in its efforts to maintain and improve the health of Napa County's watershed lands. The WICC Board, comprised of 17 members, serves as an advisory committee to the Board of Supervisors. It contains representatives of the cities/town, the county, agricultural interests, and environmental interests.

The role of the WICC is to assist the Board of Supervisors in their decision-making process and serve as a conduit for citizen input by gathering, analyzing and recommending options related to watershed resources. In recent years, the WICC's budget (not including staff time) has been around \$80,000 per year, with the bulk of that budget allocated to fisheries monitoring work via an agreement with the Resource Conservation District. Additional resources have been spent on development and maintenance of a website with interactive capabilities (i.e as a forum for coordination between organizations with similar missions) and educational outreach efforts. Additional revenues, in the form of grant funding, has been allocated to multi-agency watershed monitoring and planning efforts. Staff support of the WICC has consisted of approximately one half-time position, and meetings are held every other month.

The WICC has a responsibility to publicly evaluate and discuss matters it has been requested to review and comment upon by the Board of Supervisors. The WICC has been charged (under Resolution 02-103 and subsequent Board directives) with making recommendations on matters relating to watershed restoration projects, resource protection activities, coordination of land acquisition, development of a long-term watershed resource management program, public outreach and education, monitoring coordination, inventory and assessment, and data management, as well as providing monitoring, analysis and recommendations on State Water Resources Control Board and Regional Water Quality Control Board(s) policy and regulatory developments.

In order to tackle these obligations in a focused manner, the WICC Board has established five fundamental goals by which to assess its own performance:

- Improve watershed management and health;
- Maintain an informative website;
- Establish partnerships and collaboration;
- Increase the community's knowledge and understanding of watershed resources; and
- Create an organizational structure and needed resources/funding for long-term WICC success.

The WICC Board has also established the following guiding principles/objectives for its work:

- Be part of the solution to watershed issues and concerns;
- Remain politically neutral;

- Collect and disseminate the best possible information to aid decision-making;
- Provide tools, information and education so that the community can discover and understand their watershed;
- Use collaborative means as an effective way to accomplish the mission of the WICC;
- Encourage organizations and individuals working in the county's watersheds to participate in the WICC;
- Support and promote the activities of other watershed restoration organizations and facilitate cooperation among them; and
- Seek and accept funding from various sources (private and public) to help address the WICC's financial needs to further its mission and goals.

Recent accomplishments supported by the WICC include:

- Coordination of Integrated Regional Water Mgmt. Planning (IRWMP) meetings and support for an awarded \$1.2M IRWM Planning Grant with four other counties for water resource planning in Putah Creek basin.
- Continued monitoring/analysis and recommendations on a wide range of State and Regional Water Board policy and regulatory developments.
- Hosting of presentations by Regional Water Board staff on vineyard and grazing TMDL waiver program development.
- Support for on the ground project grants awarded to fund on-going fisheries monitoring (\$12K-50K annually), support of a TMDL implementation/compliance and monitoring program grant (\$1.4M), continuation of the Rutherford Reach Restoration Project (\$2.4M), and removal of the Zinfandel Bridge Fish Passage Barrier Project (\$900K).
- Completion of a DWR Watershed Assessment Framework grant (\$240K) developing watershed monitoring indicators and draft report card for the Napa River.
- Recommendation that the Flood Board join the North Bay Watershed Association in support of northern Bay Area regional funding opportunities and coordination.
- Utilization of grant funding in support of watershed related programs/efforts to recover County costs associated with these programs; and
- Coordination and sponsorship of the 2011 Napa County Watershed Symposium held on May 19, 2011.

Future near-term goals for the WICC Board are as follows:

- Continue support for various watershed monitoring efforts including on the ground restoration projects,
- Provide on-going monitoring, analysis and recommendations on State Water Resources Control Board and Regional Water Quality Control Board(s) policy and regulatory developments for Napa County.
- Build and strengthen effective partnerships to foster communication, coordination and involvement among those working to improve the health of Napa County's watersheds.
- Seek federal, state and local funding in support of watershed research and planning, project implementation, and community educational programs that foster the mission of the WICC, and offset County costs in these areas.

## **SUPPORTING DOCUMENTS**

None

CEO Recommendation: Approve

Reviewed By: Molly Rattigan





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**Conservation, Development and Planning**  
1195 Third Street, Suite 210  
Napa, CA 94559  
[www.co.napa.ca.us](http://www.co.napa.ca.us)  
Main: (707) 253-4417  
Fax: (707) 253-4336

**Hillary Gitelman**  
Director

**June 9, 2011**

**TO: Interested Stakeholders**

**RE: Climate Action Plan for Unincorporated Napa County: Next Steps**

Thank you for submitting comments regarding the draft Climate Action Plan (CAP) for unincorporated Napa County. As you know, the Napa County Department of Conservation, Development & Planning released the draft on January 28, 2011, and accepted comments through the close of business on April 4, 2011. Since that time, staff and consultants have been reviewing the wide variety of comments and suggestions we received, and have been considering how to address the comments in revisions to the CAP.

It seems clear that we will first and foremost have to make the revised CAP more understandable, with user-friendly worksheets. We will also have to reassess the vineyard development projections upon which our forecast of emissions was based, and better explain the purpose of the plan, and the interplay between emissions from construction, transportation, and changes in carbon sequestration. Several commenters asked basic questions about the need for a CAP (why now?), and the methodology that was used. These will have to be addressed, and we will have to reaffirm our goal to reduce emissions to 15% below 2005 levels in a way that accounts for changes in carbon sequestration as well as direct emissions of green house gases (GHG).

With limited resources and staff time available for this project, this work will take longer than we hoped and we now expect to have a revised CAP, including revisions and responses to comments received on the draft, available in late July or August. At that point, we will be able to set a date for the public hearings necessary to adopt the plan. Please feel free to contact us if you have questions before then. We would also be happy to present a status report on the CAP your organization or community service group.

Hillary Gitelman, Director of Conservation, Development & Planning  
[hillary.gitelman@countyofnapa.org](mailto:hillary.gitelman@countyofnapa.org)

Steven Lederer, Director of Environmental Management  
[steven.lederer@countyofnapa.org](mailto:steven.lederer@countyofnapa.org)

cc. Napa County Planning Commission  
Napa County Board of Supervisors