



Board of Directors

Susan Boswell
Emma Chow
Tosha Comendant
Diane Dillon
Marita Dorenbecher
Geoff Ellsworth
Jeri Gill
David Graves
Gary Kraus
Jason Lauritsen
Kenneth Leary
Alfredo Pedroza
Bill Pramuk
Brent Randol
Kimberly Richard
Scott Sedgley
Pamela Smithers

Alternates

Mariam Aboudamous
Barry Christian
Jeffrey Durham
Doris Gentry
Ryan Gregory
Mary Koberstein
Irais Lopez-Ortega

Staff

Patrick Lowe,
Secretary
Natural Resources
Conservation Mgr.,
Public Works

Jeff Sharp,
Principal Planner,
Public Works

Robert C. Martin,
Legal Counsel
Deputy Counsel,
County Counsel's
Office

804 First Street,
Napa, CA
94559-2623

Tel: 707-259-8600

info@napawatersheds.org

AGENDA

SPECIAL MEETING

Thursday, January 25, 2018, 3:00 p.m.

**Town of Yountville Council Chambers
6550 Yount Street, Yountville CA 94599**

--- Note Special Meeting Location ---

1. **CALL TO ORDER AND ROLL CALL** (Chair)
2. **APPROVAL OF ACTION MINUTES** – November 16, 2017 Regular Meeting (Chair) (2 min)
3. **PUBLIC COMMENT** – In this time period, anyone may comment to the Council regarding any subject over which the Council 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 Council as a result of any item presented at this time. (Chair)
4. **DISCUSSION AND ACTION**
 - a) Election of Chair and Vice-Chair for 2018 (per Bylaws§ II.A.) (Council) (5 min)
 - b) Discussion and adoption of 2018 Meeting Calendar (per Bylaws§ III.A.) (Council) (5 min)
5. **PRESENTATIONS AND DISCUSSION:**
 - a) Presentation and discussion on Northeast Napa Area Special Groundwater Study findings and recommended management actions (Vicki Kretsinger Grabert, Luhdorff & Scalmanini Consulting Engineers) (40 mins)

(cont.)

- b) Presentation and discussion on Wildfires and Trees: Observations after the October 2017 Fires in Napa and Sonoma Counties – a summary after conducting numerous post-fire assignments assessing fire-damaged trees, conducting tree risk assessments, tree health diagnostics, and management plans (Bill Pramuk, independent consulting arborist) (15 mins)
- c) Presentations and discussion on Post-Fire/Post-Rain Watershed Recovery – short informational presentations providing an brief overview of recovery efforts and vegetation and soil response to recent rains (Emma Chow, NRCS District Conservationist and Patrick Ryan, PBES Engineering Manager) (20 mins)
- d) Presentation and discussion on Projects in the Yountville Area – A review of projects along Hopper Creek and the Napa River intended to mitigate flooding, improve habitat, and protect water quality (Joe Tagliaboschi, Town of Yountville Public Works and Shaun Horne, Napa County Flood Control District) (20 mins)

4. **INFORMATIONAL ANNOUNCEMENTS:**

Exchange of informational announcements and events (Staff/Council/Public) (5 mins)

5. **FUTURE AGENDA ITEMS:**

Discussion of possible items for future agendas (Staff/Council) (2-5 mins)

6. **NEXT MEETING:**

Next scheduled meeting: **March 22, 2018 – 3:00 p.m.**
Location TBA

We are currently looking for a March meeting location

7. **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, 804 First St., Napa CA 94559-2623.





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-- ACTION MINUTES --

SPECIAL MEETING

Thursday, November 16, 2017, 3:00 p.m.

**Calistoga Community Center
1307 Washington Street Calistoga, CA 94515**

--- Note Special Meeting Location ---

1. CALL TO ORDER AND ROLL CALL (Chair)

Members Present: Susan Boswell, Tosha Comendant, Diane Dillon, Marita Dorenbecher, Geoff Ellsworth, David Graves, Gary Kraus, Kenneth Leary, Alfredo Pedroza, Bill Pramuk, Kimberly Richard, Scott Sedgley

Members excused: Emma Chow, Jeri Gill, Jason Lauritsen, Brent Randol, Pamela Smithers

Staff present: Jeff Sharp

2. APPROVAL OF ACTION MINUTES – March 23, 2017 Regular Meeting (Chair) (2 min)

Approved as presented.

SB	EC	TC	DD	MD	GE	JG	DG	GK	JL	KL	AP	BP	BRI	KR	SS	PS	BC
	E					E			E				E			E	A

3. PUBLIC COMMENT – In this time period, anyone may comment to the Council regarding any subject over which the Council 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 Council as a result of any item presented at this time. (Chair)

Jerry Tam, Calistoga resident, commented on the presence of burned trees from the recent fires in the upper Napa River channel that need to be cleaned up to avoid possible flooding.

4. PRESENTATIONS AND DISCUSSION:

a) Presentation on Post-Fire Watershed Recovery Operations – A series of short informational presentations and discussion with Watershed Recovery Operations Center (ROC) team members; topics to include CalFire Watershed Emergency Response Team (WERT) reports, private land debris cleanup, creek and stream protection, drinking water supply protection, upland assessments restoration, and available funding and resources (CalFire and Watershed ROC Team Members) (60 mins)

(cont.)

Phil Miller, Napa County Public Works, provided an overview of the Watershed ROC, its role and recent activities. Mr. Miller then introduced members of the ROC team, each of whom discussed recovery efforts under their responsibility: Drew Coe, CalFire – provided an overview of CalFire’s WERT reports and CalFire’s evaluation of the burn areas; Brian Bordona, Napa County Planning, Building and Environmental Services (PBES) – provided a report on his department’s field assessments of the burn areas and landowner outreach efforts to those in high priority areas; Bill Birmingham, Napa County Resource Conservation District – provided additional information on efforts underway related to erosion control related to areas with burned structures, as well as access roads and drainage infrastructure; Greg Perry, with PBES Environmental Health – discussed actions taken and underway related to hazardous waste, toxic burned debris, and solid waste management efforts and in progress; Rick Thomasser, Napa County Flood Control and Water Conservation District – provided an update on efforts taken by the District to survey the stream reaches in the burn areas for flood conveyance issues and prioritization of any needed clean-up, maintenance and future monitoring during the 2018 winter storms; Joy Eldridge, City of Napa Water Division – provided an overview of the fire impacts to the City’s municipal watersheds, plants and delivery systems and actions taken and underway to protect and repair the damaged facilities; Derek Rayner, City of Calistoga Public Works – discussed the effects of the fire on the Kimball Reservoir watershed and efforts that to protect reservoir water quality; Kelly Gin, Natural Resource Conservation Service (NRCS) – provided an overview of the landowner assistance conducted and services available via the NRCS, and provided a handout of financial resources that may be available for agricultural landowners that experienced fire damage. In closing, Phil Miller summarized the information presented and discussed ways to further distribute this information through additional presentations. The finalized WERT reports will be available on CalFire’s Incident Webpage.

- b) Presentation on Projects in Calistoga - Addressing the Napa River projects and community needs. An overview of capital improvement projects in the City of Calistoga that meet the multiple objectives of enhancing Napa River habitat, protecting water quality, and addressing important community infrastructure needs (Derek Rayner, Deputy Director of Public Works, City of Calistoga) (15 mins)

Derek Rayner provided the Council with an overview of projects in the Calistoga area including: recycled water facilities, channel erosion projects, bridge work, reservoir improvements, water tank projects and waste water treatment riverside ponds operations.

- c) Presentation on Infrastructure for the Environment – Stream Rehabilitation & Restoration Along the Upper Napa River. An exploration of recent examples of stream rehabilitation and restoration actions along the Upper Napa River associated with Public Works and infrastructure projects that benefit the Napa River corridor (Aaron Fulton, Engineering Hydrologist, Environmental Science Associates) (20 mins)

Aaron Fulton was unable to attend.

4. REPORTS AND UPDATES:

- a) Update on WICC meetings and activities since March 2017 (Staff) (5-10 min)
Staff provided the Council with an update on WICC supported activities and projects conducted from March 2017 through October 2017.
- b) Report on Napa County’s groundwater monitoring program – Special Study Area Report to Board of Supervisors, recruitment of wells, and collection of Fall 2017 groundwater levels post-fire (Staff) (10 mins)

Staff gave the Council an update on activities taking place in support of Napa County's Groundwater monitoring Program and a timeline for upcoming presentations and reports to the WICC and to the County Board of Supervisors.

- c) Update on WICC website redesign and content modernization (Staff) (5 min)
Staff provided an update on the new website design for the WICC and progress to date on the migration of content to the new platform.
- d) Distribution of 2018 Watershed Education Calendar (Staff/Napa RCD) (5 mins)
Staff provided the calendar to the Council and reported on the broad distribution of the calendar.

5. INFORMATIONAL ANNOUNCEMENTS:

Exchange of informational announcements and events (Staff/Council/Public) (5 mins)

Marita Dorenbecher offered the Yountville Town Chambers for the next WICC meeting.

Barry Christian mentioned on November 4th, in American Canyon, 100 tree seedlings and buckeyes were planted as part of Bay Ridge Trail Day, the effort was supported by the Napa County RCD and Friends of the Napa River and students of American Canyon High School.

Bill Pramuk announced the first Acorn to Oaks planting day is scheduled for Saturday, November 18th.

6. FUTURE AGENDA ITEMS:

Discussion of possible items for future agendas (Staff/Council) (2-5 mins)

None provided.

7. NEXT MEETING:

Next scheduled meeting: **January 25, 2017 – 3:00 p.m.**

Location TBA

We are currently looking for a January meeting location

Kenneth Leary offered American Canyon as a possible future WICC meeting location.

8. ADJOURNMENT (Chair)

Motion and approval to adjourn.

SB	EC	TC	DD	MD	GE	JG	DG	GK	JL	KL	AP	BP	BRI	KR	SS	PS	BC
	E					E			E				E			E	

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Voting Key

If not unanimous, votes will be tallied (N = No; A = Abstained, E = Excused) using the following Board Member abbreviations: SB = Susan Boswell; EC = Emma Chow; TC = Tosha Comendant; DD = Diane Dillon; MD = Marita Dorenbecher; GE = Geoff Ellsworth; JG = Jeri Gill; DG=David Graves; GK = Gary Kraus; JL = Jason Lauritsen; KL = Kenneth Leary; AP = Alfredo Pedroza; BRI=Brent Randol; BP=Bill Pramuk; KR=Kimberly Richard; SS = Scott Sedgley; PS = Pamela Smithers; Alternates: BC=Barry Christian; PD = Paul Dohring, ILO = Irais Lopez-Ortega, ML = Mary Luros, BR2 = Belia Ramos.

Example Key:

SB	EC	TC	DD	MD	GE	JG	DG	GK	JL	KL	AP	BP	BRI	KR	SS	PS
	N			A		A									E	



Item #4 - DISCUSSION AND ACTION

- a) Election of Chair and Vice-Chair for 2018 (per Bylaws§ II.A.) (Board) (5 min)
 - b) Discussion and adoption of 2018 Meeting Calendar (per Bylaws§ III.A.) (Board) (5 min)
-

EXCERPT FROM THE WICC BYLAWS

Excerpt regarding election of officers:

- II. OFFICERS.** The officers of the WICC Board shall be the Chair, Vice-Chair and Secretary, chosen as follows:
 - A. Time of Election of the Chair and Vice-Chair.**
At the first organizational meeting and thereafter at the WICC's annual organizational meeting, the membership of the WICC shall elect the Chair and Vice-Chair from among themselves.

Excerpt regarding adoption of yearly calendar:

- III. MEETINGS**
 - A. Date of Regular Meetings.**
... the WICC shall adopt at the first meeting of the WICC, of each calendar year. Notwithstanding the foregoing, any regularly scheduled meeting of the WICC may be canceled by majority vote or, if there is not a quorum, be adjourned by the Chair or Secretary in the manner set forth in Section III(G) of these by-laws.



Watershed Information & Conservation Council

WICC

2018

Meeting Calendar



A Tradition of Stewardship
A Commitment to Service

Members:

- Susan Boswell
- Emma Chow
- Barry Christian
- Tosha Comendant
- Diane Dillon
- Marita Dorenbecher
- Geoff Ellsworth
- Jeri Gill
- David Graves
- Gary Kraus
- Jason Lauritsen
- Kenneth Leary
- Alfredo Pedroza
- Bill Pramuk
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- Mary Koberstein
- Irais Lopez-Ortega
- Brent Randol

Staff:

- Patrick Lowe
Nat. Resources Conservation
Manager, Public Works
- Jeff Sharp
Principal Planner, Public Works
- Robert Martin
Legal Counsel, County
Counsel's Office

— Meeting Details —

Time: 3:00 PM

Location: 2751 Napa Valley
Corporate Drive, Building A,
First Floor, Conference Rooms
Napa CA 94558

These are public meetings
All are welcome to attend

Time and location may change
as directed by the Council

January

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
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28	29	30	31			

February

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18	19	20	21	22	23	24
25	26	27	28			

March

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24	25	26	27	28	29	30
31						

April

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29	30					

May

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June

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July

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August

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September

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October

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November


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December

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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

○ - Regular Meeting Dates ○ - Reserved Optional Meeting Dates


www.napawatersheds.org



Northeast Napa Area: Special Groundwater Study

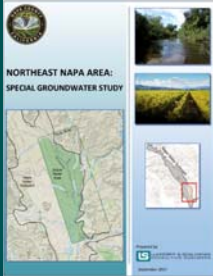
*presentation to
Watershed Information & Conservation Council*

January 25, 2018
Vicki Kretsinger Grabert



Overview

- Background
- NE Napa Study
- Findings
- Recommendations

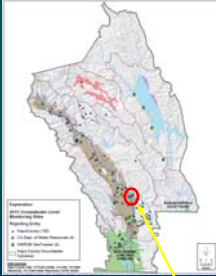


Acknowledgements LSCE Staff:

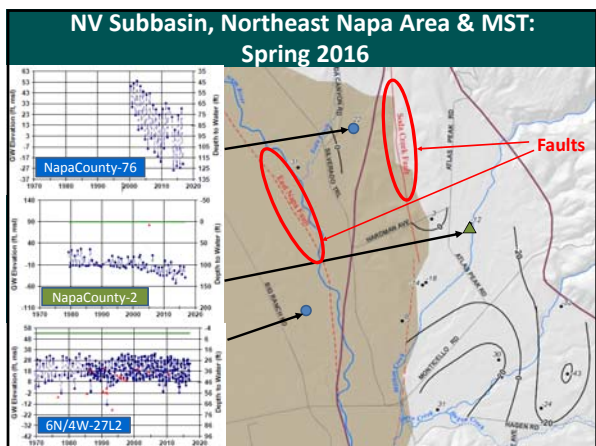
- Reid Bryson
- Barb Dalgish
- Jeevan Jayakody
- Ken Utley
- Andrew Francis

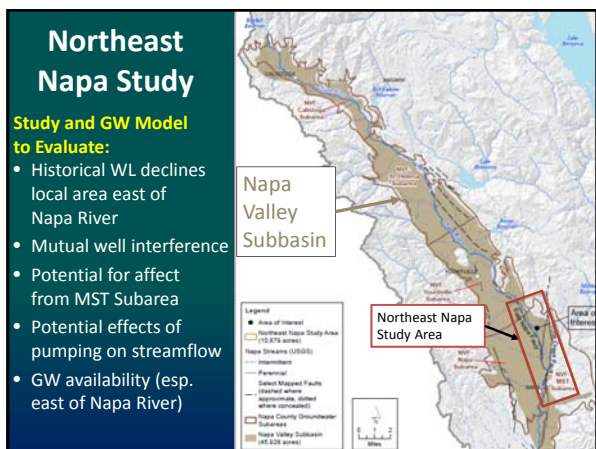
Background: Northeast Napa Area

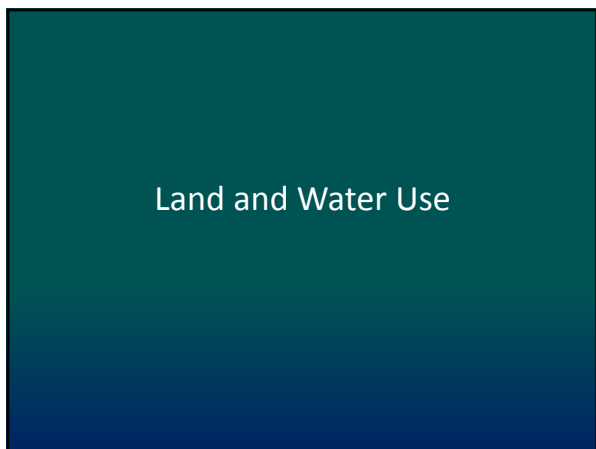
- **Dec 2015:** Review of GW data shows area of interest near MST Subarea
 - Historical declines in 2 wells
 - Levels stabilized since 2009
 - Petra Drive well replacements
- Several winery permit applications received by PBES in this area
- **April 5, 2016:** BOS Annual Report on the GW Monitoring Program
 - Recommends Northeast Napa Special Study Area

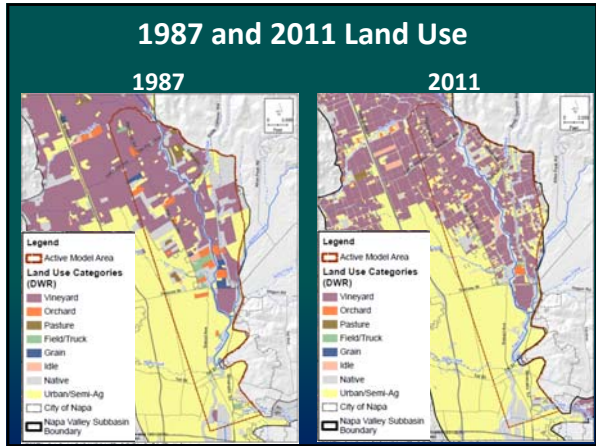


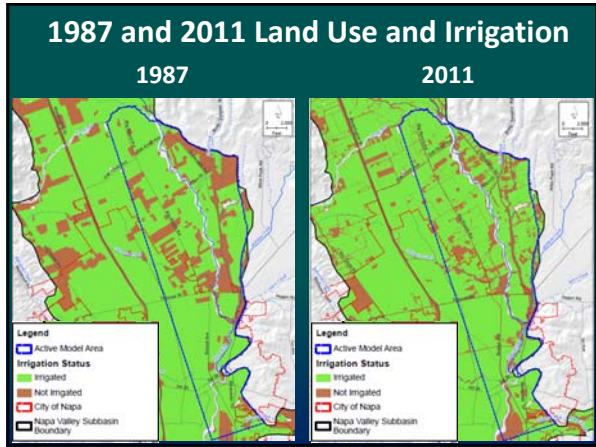
Area of Interest

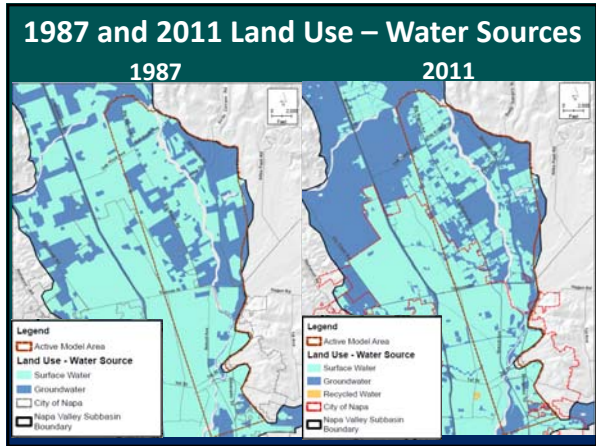




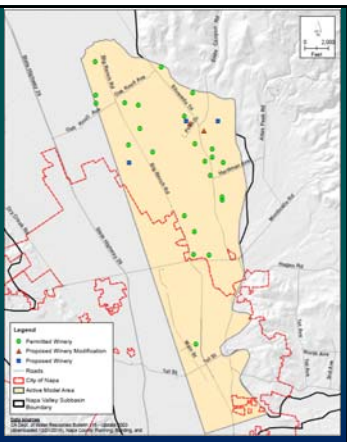








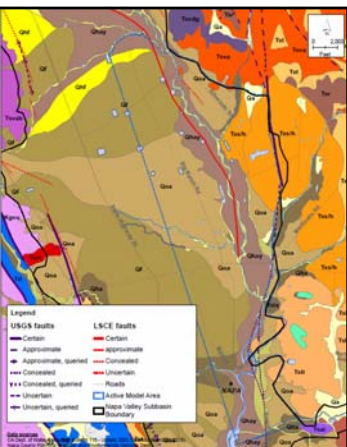
Permitted and Proposed Wineries

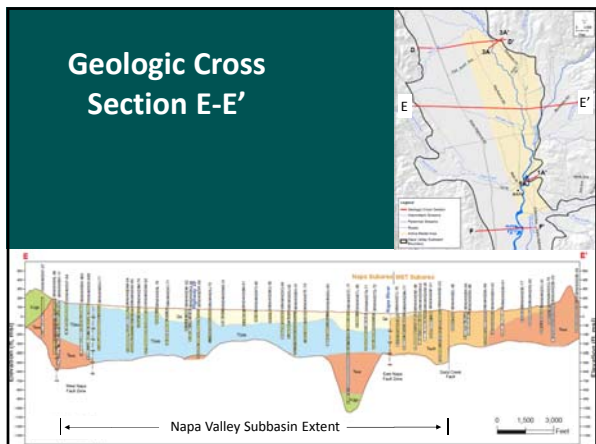


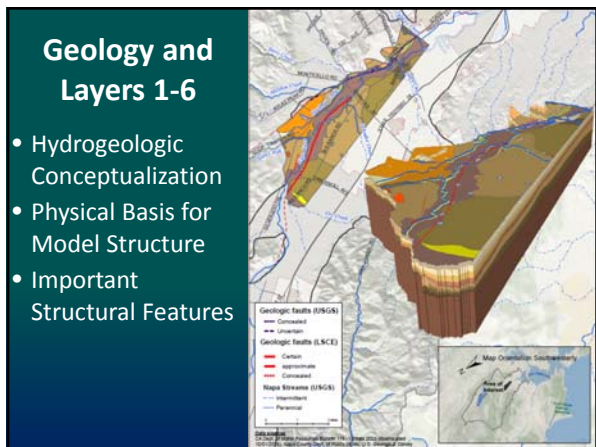
Groundwater Flow Model

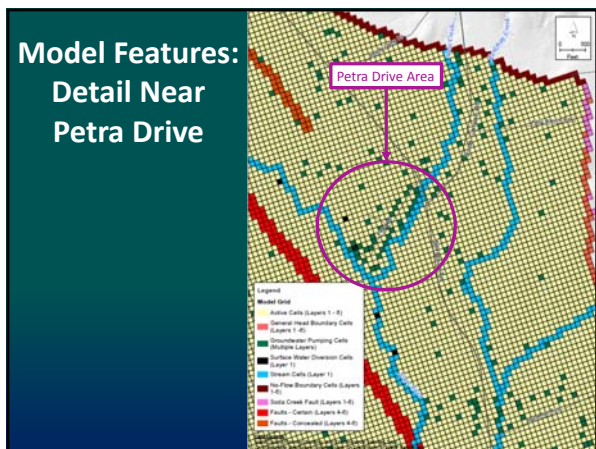
Geologic Setting

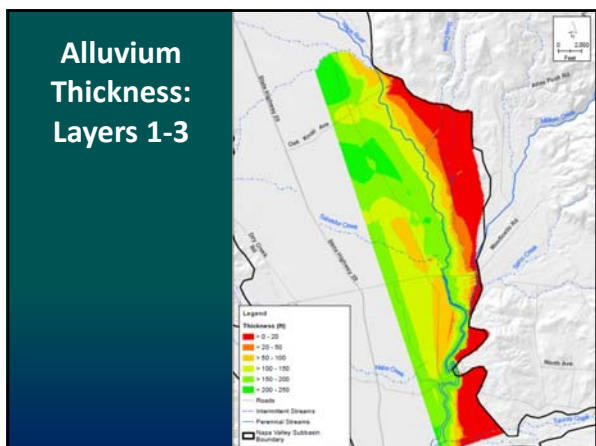
- Develop Hydrogeologic Conceptualization

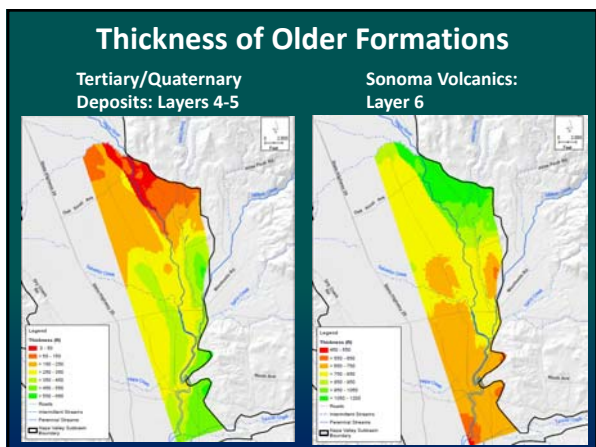


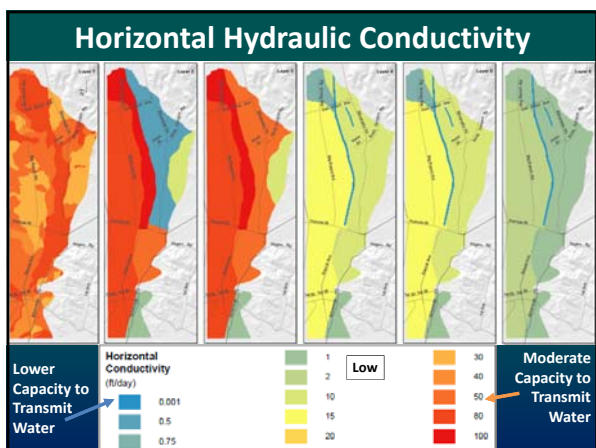


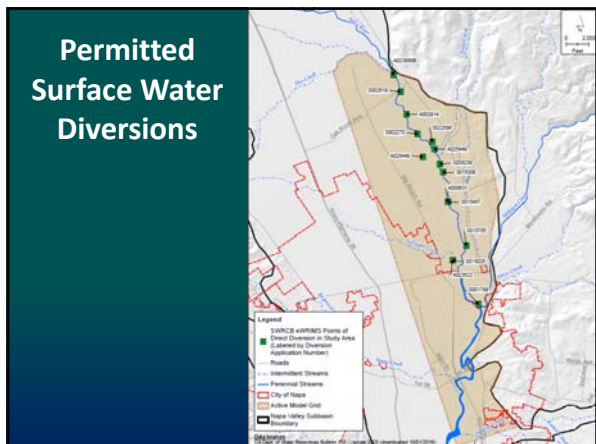


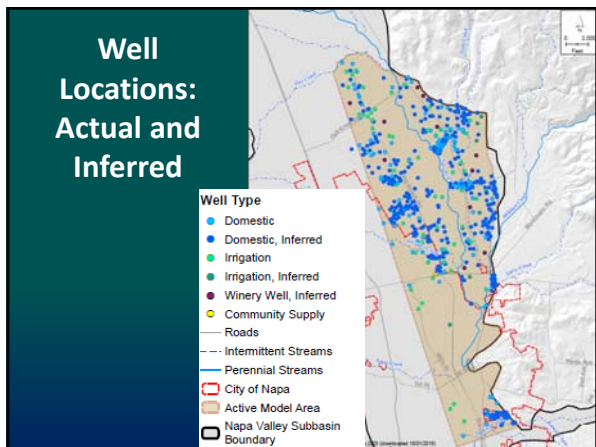


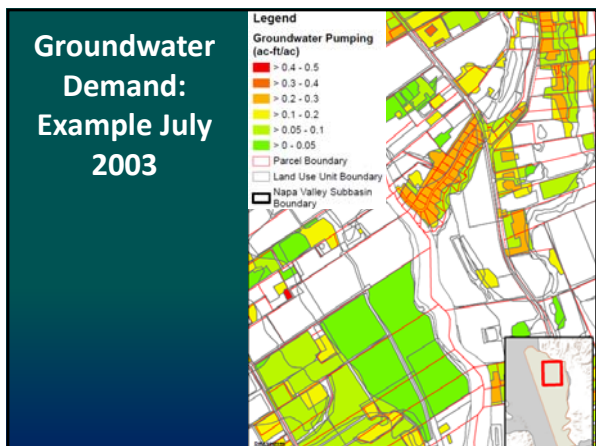


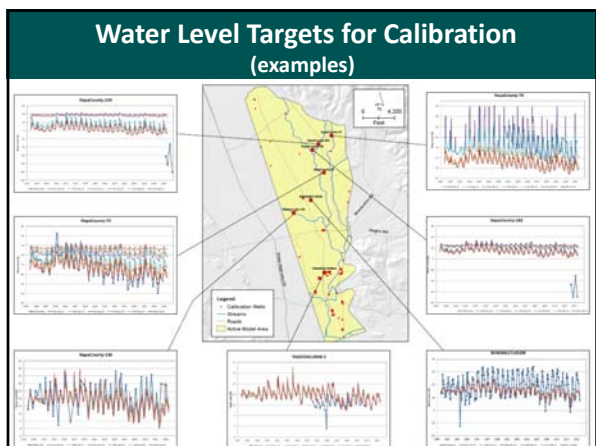


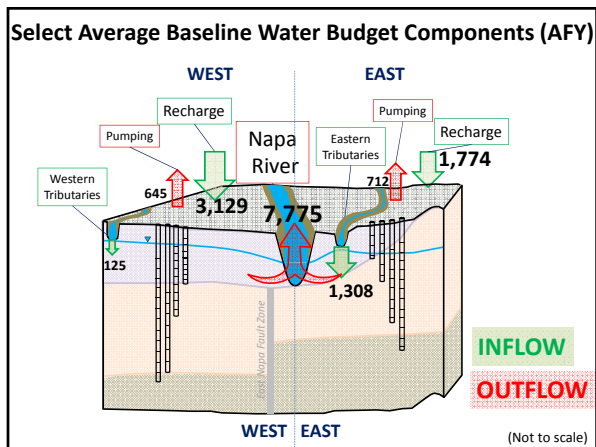


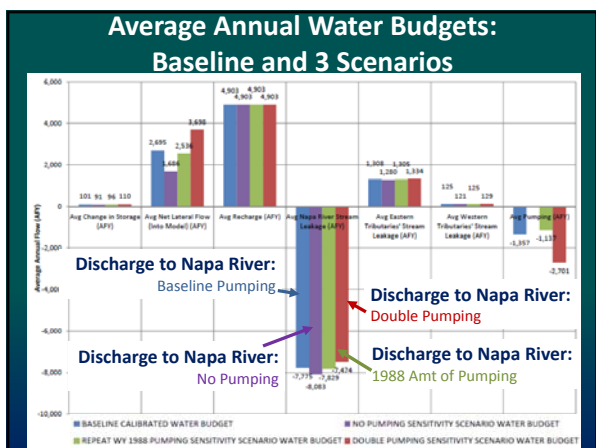


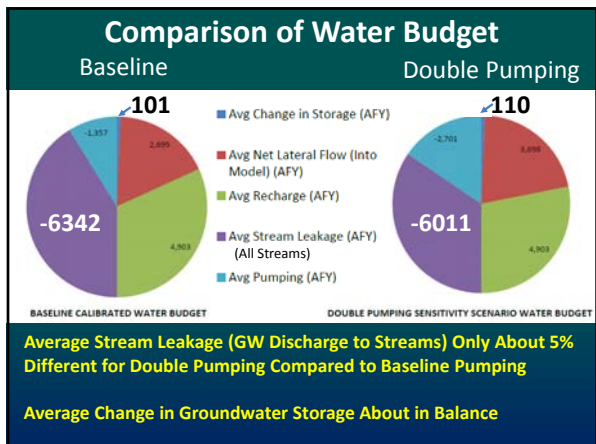


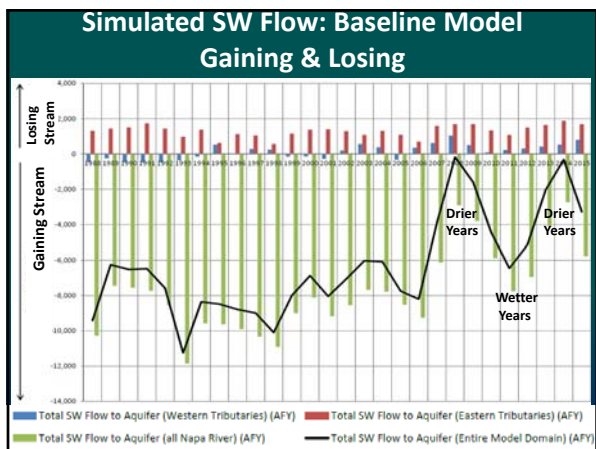


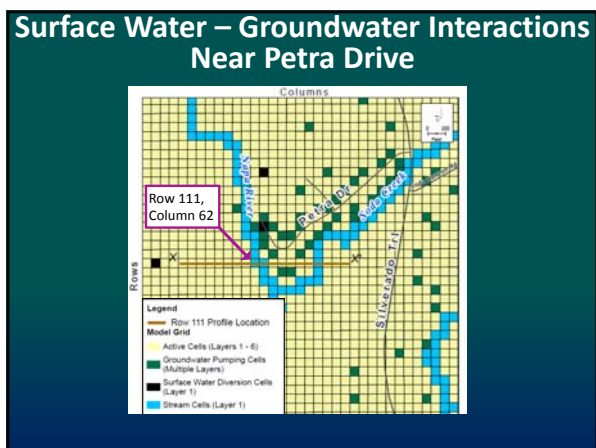


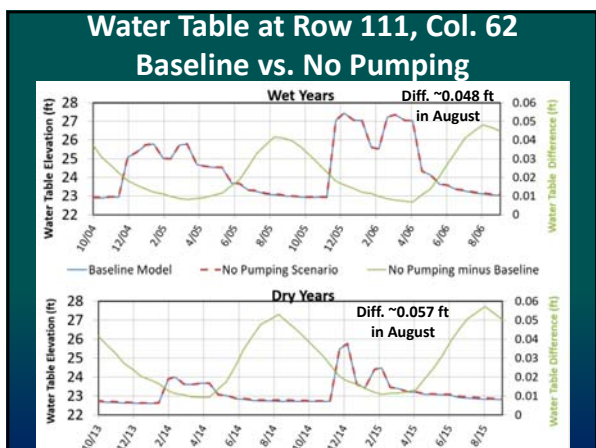
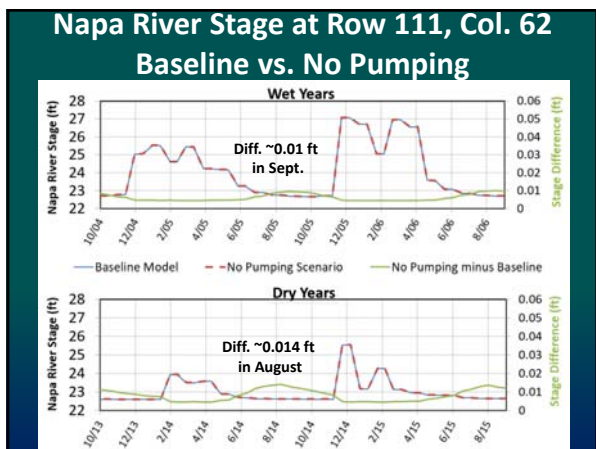
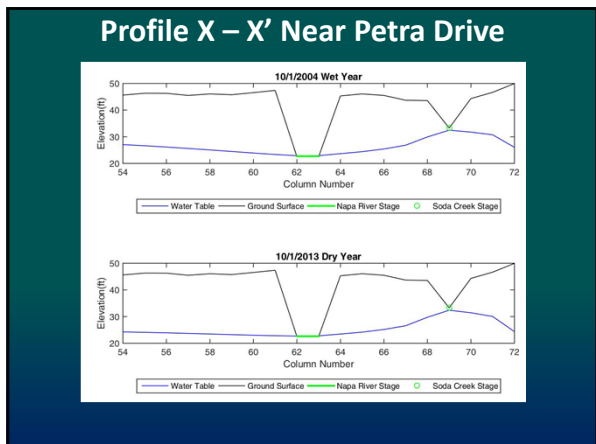


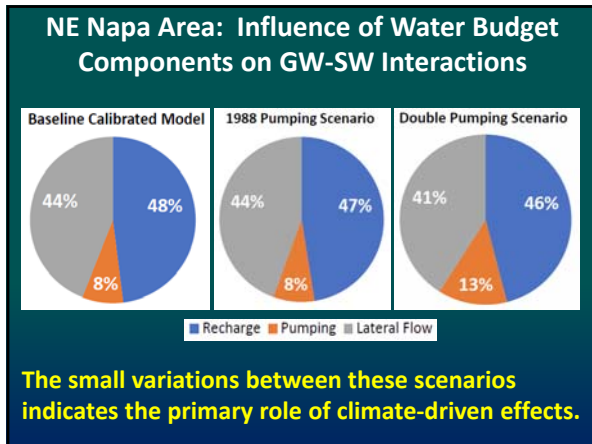


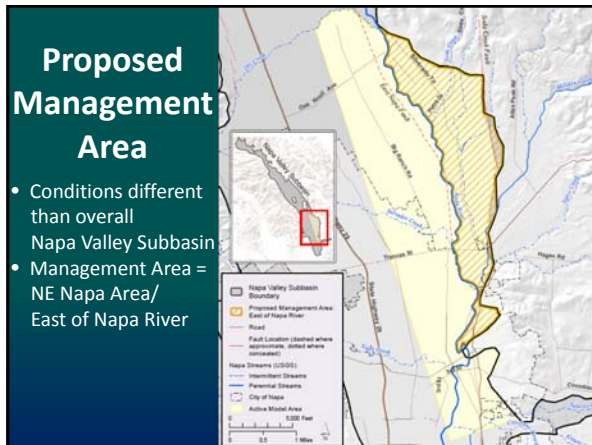












Report: Findings NE Napa Study Area

- **GW storage change is ~ net-zero annually.**
- Pumping is relatively small part of water budget.
- Recharge is 2nd largest water budget component.
- **Within the model, GW discharge into the Napa River dominates the GW budget.**
- **Tributaries in the area most often recharge the GW on a seasonal basis.** Tributaries east of Napa River consistently show net losing stream conditions. Soda Creek is more affected by climate, than pumping in determining the rate of stream leakage to GW.

Report: Findings (cont.)

- Starting in the late 1990s, a decrease in GW discharge to streams occurs. This recent trend can be **attributed to less precipitation (climatic effects), including reduced recharge and subsurface lateral flows, rather than to pumping.**
- **Geologic faulting** in the model area is **important to the overall behavior of water levels east of Napa River.** Additional concealed faults may be present, which may affect water levels in deeper wells in the Petra Drive area.

Report: Findings (cont.)

- The modeling scenarios indicate the **primary role of climate-driven effects.**
- Statistical analyses of model recharge, lateral flows and pumping relative to baseflow in Napa River show **climate effects contribute to 87 to 92% of the effect on baseflow in Napa River, while pumping contributes to 8 to 13% of the effect on baseflow.**
- Some drawdown in the Petra Dr. area is associated with mutual well interference (compounded by high well density). The lowered GW levels near Petra Dr. are not as significant as the regional influence of GW movement away from Petra Dr. towards the MST Subarea.

Report: Recommendations

A. Surface Water/Groundwater Monitoring Facilities

- Construct shallow nested MWs (like LGA SW/GW) east of Napa River near Petra Drive

B. SGMA Management Area Designation

- Management Area = Northeast Napa Area/East of Napa River
- Meets criteria for designation due to geologic features and aquifer parameters distinct from the Napa Valley Subbasin

C. Discretionary Project WAA Review in Management Area

- For discretionary projects, recommend additional project-specific analyses (WAA Tier 2) be conducted to ensure that proposed project location or planned GW use does not cause an undesirable result (i.e., may include water use criteria)

Report: Recommendations (cont.)

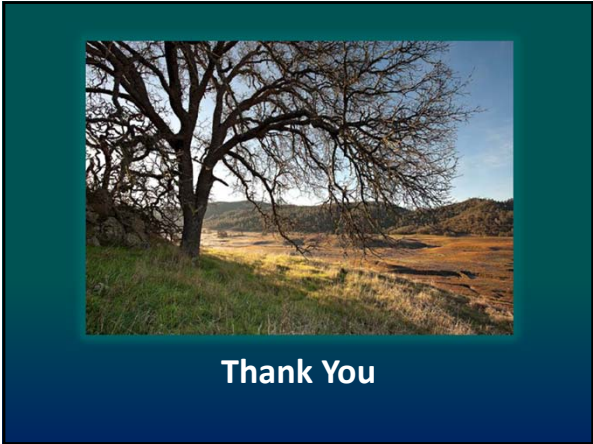
- D. New Well Tracking in the Management Area**
 - Track new non-discretionary groundwater wells constructed in the Management Area, including planned usage and location.
- E. New Well Pump Testing**
 - Management Area, and also deeper geologic units in Napa Valley Subbasin
- F. Groundwater Flow Model Development**
 - Develop model for entire Napa Valley Subbasin
- G. Increased Water Conservation and Recharge**
 - Promote sustainable water use, including maintain/improve ecosystem health.
 - Evaluate approaches stormwater management and increase water conservation, create additional climate resiliency through targeted recharge strategies.

Summary of Recommendations

	RECOMMENDATIONS	Management Area (NE Napa/ East of River)	All Napa Valley Subbasin
A	Add SW/GW Monitoring Wells	X	X
B	Management Area Designation	X	
C	Discretionary Projects – Additional WAA Review (Tier 2)	X	
D	New Well Tracking in Management Area	X	
E	New Well Pump Testing	X (All)	X (Deeper formations)
F	GW Flow Model Development		X
G	Increase Conservation & Recharge	X	X

Summary: Other Updates

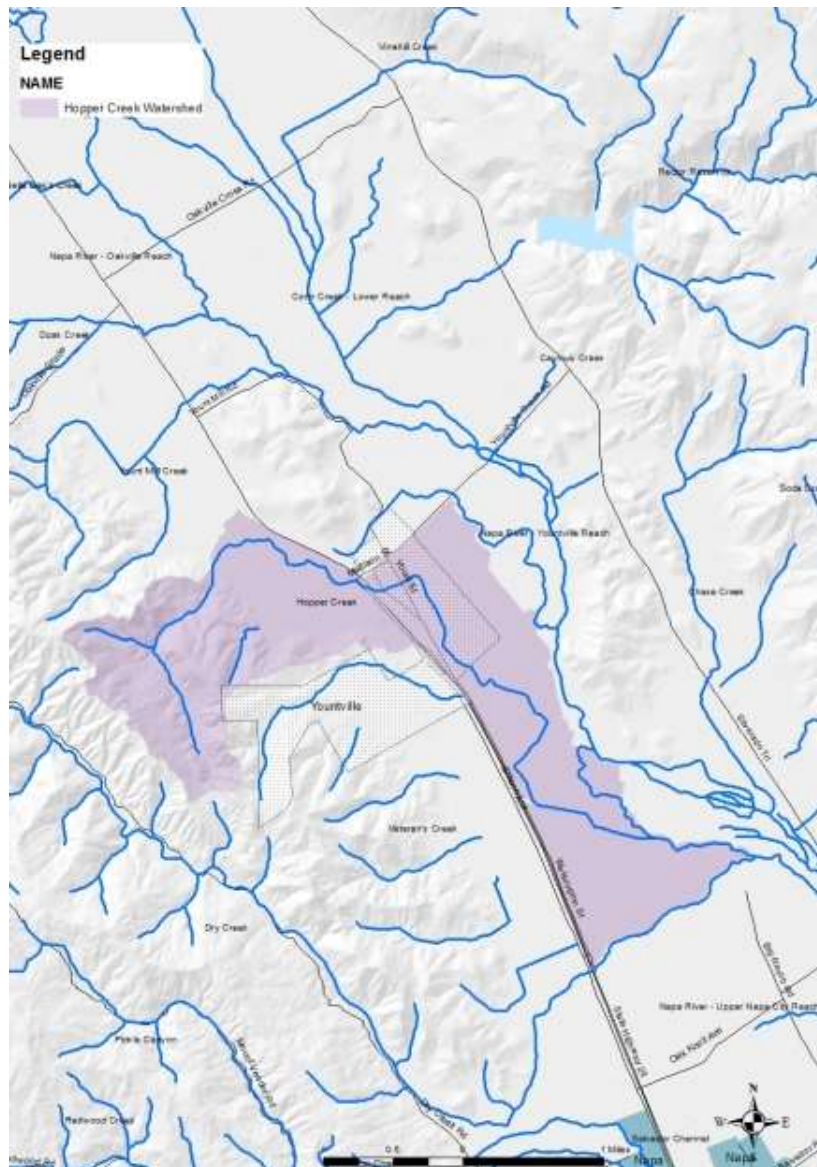
- **Presentation to Board of Supervisors October 24, 2017**
 - BOS supported Management Area designation and other recommendations
- **Preparation of supplemental report (in progress)**
 - Sustainable Groundwater Management Act/ Groundwater Sustainability Plan Regulations for Management Areas (Section 354.20)
 - NE Napa Management Area: water budget is in balance for inflows and outflows over the 28-year study period
 - Establish minimum thresholds, measurable objectives, and monitoring sites, and management actions to maintain balance





Item 5d – PRESENTATION AND DISCUSSION

Presentation and discussion on Projects in the Yountville Area – A review of projects along Hopper Creek and the Napa River intended to mitigate flooding, improve habitat, and protect water quality (Joe Tagliaboschi, Town of Yountville Public Works and Shaun Horne, Napa County Flood Control District) (20 mins)



County staff will provide a brief overview of the Napa River Oakville to Oak Knoll (OVOK) Restoration Project, which will include an overview of recent project activity to the east of Yountville, just south of Yountville Cross Road. The purpose of the OVOK Project is to restore and enhance long-term river and floodplain function, improve the quality and resilience of aquatic and terrestrial riparian habitat, reduce property damage and sediment delivery associated with ongoing bank erosion processes, and achieve streambed sediment goals outlined in the Napa River Sediment TMDL. The OVOK Project includes 4.8 miles of active channel restoration activities along 9 miles of the mainstem Napa River resulting in the restoration of up to 80 acres of riparian corridor and floodplain. To date the County has received over \$7,000,000 in State and Federal Grants for the project. Landowners within the project reach are voluntarily donating land to facilitate the restoration project and have formed a Community Facilities District (CFD) to fund the long-term monitoring and maintenance of the project. The Flood District is responsible for overseeing the OVOK CFD and implementing long-term maintenance and monitoring.

