

**A COMPREHENSIVE  
ASSESSMENT OF THE UPPER  
PUTAH CREEK WATERSHED**

**A DEPARTMENT OF WATER  
RESOURCES PROPOSITION 50  
FUNDED GRANT**

**FOR THE  
UPPER PUTAH CREEK  
STEWARDSHIP**

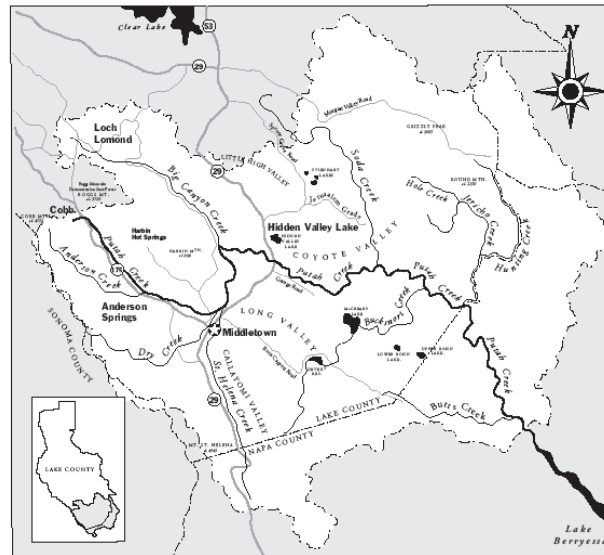
**7/2/2008**

# **WATERSHED ASSESSMENT**

## **ITEMS TO BE COVERED IN A WATERSHED ASSESSMENT**

- **GEOGRAPHY**
- **HYDROLOGY**
- **CLIMATE**
- **FLOODING AND STORMWATER**
- **GEOLOGY, SOILS AND SEDIMENT IN WATERSHEDS**
- **WATER QUALITY**
- **AQUATIC ECOSYSTEMS**
- **TERRESTRIAL LANDSCAPES AND HABITATS**
- **HUMAN LAND USES**
- **WATER MANAGEMENT AND USES**
- **SOCIAL AND ECONOMIC SETTING**
- **HISTORIC CONTEXT AND ANALYSIS**

# THE UPPER PUTAH CREEK WATERSHED



The Upper Putah Creek watershed encompasses 357,120 acres in southeast Lake County and some of Napa and Yolo Counties. It is approximately 35 miles in length and 20 miles at its widest point. Elevations range from 440 feet at Lake Berryessa to 4722 feet at Cobb Mountain. Tributaries include Anderson, St. Helena, Dry and Big Canyon creeks. The watershed's main drainage is into Lake Berryessa; the most visible landmark is Mount St. Helena.

# PUTAH CREEK



# **THIS ASSESSMENT WILL BE COMPLETED BY JUNE 2010**

- **DEVELOP A COMPUTER MODEL OF SURFACE AND GROUNDWATER BALANCES, WATER QUALITY AND MEASURE THE HEALTH OF THE HABITAT.**
- **TECHNICAL ADVISORY COMMITTEE AND A CITIZENS ADVISORY GROUP WILL MAKE INPUT TO THE STUDY**
- **OUTREACH AND EDUCATION WILL INFORM STUDENTS AND CITIZENS ABOUT THE WATERSHED, PROVIDE INFORMATIVE WORKSHOPS, RECORD HISTORY OF ELDERS AND ART WILL BE USED TO SUPPORT THE MESSAGES ABOUT THE WATERSHED**
- **THE FINAL REPORT WILL HAVE THE COMPUTERIZED MODEL DATA THAT INCLUDES THE HEALTH OF THE WATERSHED. RECOMMENDATIONS FOR MANAGEMENT ACTIONS AND PROJECTS. A VIDEO HISTORY OF THE WATERSHED. AND REPORTS OF CITIZEN AND STUDENT TRAINING AND INVOLVEMENT**

# **SUBCONTRACTOR**

- **UNIVERSITY OF CALIFORNIA AT DAVIS**
- **DEPT OF CIVIL AND ENVIRONMENTAL ENGINEERING**
- **WATERSHED MODEL**

## **MATCH PARTNERS**

- **NATURAL RESOURCES CONSERVATION SERVICE**
- **LAKE COUNTY DEPT WATER RESOURCES**
- **MIDDLETOWN RANCHERIA**
- **SOLANO COUNTY WATER AGENCY**
- **MINNIE CANNON ELEMENTARY SCHOOL**
- **MIDDLETOWN COMMUNITY ARTS**

# SODA CREEK



# **TECHNICAL ADVISORY COMMITTEES (TAC)**

- **A TAC TO REVIEW 2004 WATERSHED STUDY**
- **COLLEGE PROFESSOR, GEOLOGIST, WATER ENGINEER, PLANT BIOLOGIST, HERPETOLOGIST, ENTOMOLOGIST, RANCHERIA ENVIRONMENTAL OFFICER, DISTRICT CONSERVATIONIST AND WATER MASTER**
- **THEY WILL REVIEW THE STUDY FOR POSSIBLE GAPS IN APPLICATION; THAT IS, WERE THERE ANY AREAS THAT NEED TO BE ADDRESSED IN OUR OVERALL STUDY**

## **TECHNICAL ADVISORY COMMITTEE (TAC)**

- **A TAC CALLED WATER QUALITY TECHNICAL COMMITTEE (WQTC)**
- **COLLEGE PROFESSOR,  
ENTOMOLOGIST, WATER ENGINEER,  
RANCHERIA ENVIRONMENTAL  
OFFICER, DFG BIOLOGIST,  
STEWARDSHIP BOARD MEMBERS,**

# ST HELENA CREEK



# **CITIZENS ADVISORY GROUP**

- **AGRICULTURE, FED, STATE, COUNTY, FARM BUREAU, AGRICULTURAL ASSOCIATIONS AND INDIVIDUAL PRODUCERS**
- **BUSINESS, ORGANIZATIONS AND INDIVIDUAL ENTREPRENEURS**
- **CIVIC GROUPS, ROTARY, LIONS, SCOUTS, 4H**
- **CHURCHES**
- **DEVELOPERS, PLANNERS, REAL ESTATE ASSOCIATIONS**
- **EVERYDAY CITIZENS, ELDERS**
- **ELECTED OFFICIALS, LAKE AND NAPA**
- **EDUCATION, COLLEGE AND MUSD, PRIVATE SCHOOLS**
- **HOMEOWNERS ASSOCIATIONS, ANDERSON SPRINGS, HIDDEN VALLEY**
- **MIDDLETOWN RANCHERIA**
- **SENIOR CENTER, SOCIAL SERVICES**
- **WATER PROVIDERS, SERVICE DISTRICTS**
- **AND ANYONE ELSE WHO DOES NOT FIT ABOVE DESCRIPTIONS**

# HOW CAN YOU HELP?

- **VOLUNTEER FOR CITIZENS MONITOR TEAM**
- **PROVIDE INFORMATION ON WATERSHED HISTORY**
- **LET US KNOW WHAT IS MISSING FROM OUR STUDY**
- **LET US KNOW WHAT YOU THINK IS GOOD OR BAD ABOUT THE STUDY**
- **WHAT SHOULD BE DONE NEXT**
- **DO YOU HAVE A FAVORITE AREA THAT NEEDS ATTENTION**

# PUTAH CREEK ON LANGTRY FARMS



# **EDUCATION AND OUTREACH**

- **CITIZEN MONITOR TRAINING**
- **TROUT IN THE CLASSROOM**
- **IN THE CREEK FIELD DAY**
- **WATERSHED ARTS EVENT**
- **TRIBAL INDIAN DAY**
- **MIDDLETOWN DAYS**
- **EARTH DAY**
- **NEWSLETTER, WEBSITE AND PRESS RELEASES**
- **ORAL HISTORY OF WATERSHED ELDERS**

# CITIZEN MONITORS HUNTING CREEK



# BUTTS CREEK



# **WHAT IS THE PAYOFF?**

- **WE WILL HAVE A WORKING MODEL OF OUR WATERSHED THAT WE CAN UPDATE AS NEEDED**
- **WE WILL HAVE RECOMMENDATIONS FOR MANAGEMENT ACTIONS**
- **WE WILL HAVE RECOMMENDATIONS FOR NEEDED PROJECTS**
- **CITIZENS WILL BE MORE KNOWLEDGEABLE ABOUT THEIR WATERSHED**