



THE SIERRA FUND

presents

Reclaiming the Sierra

Gold Country

Community Summit
on Mining Impacts

November 8 & 9, 2010



David McKay

Miners Foundry Cultural Center
Nevada City, California

www.reclaimingthesierra.org



and first edition

Sierra Environmental Services Directory

Ongoing Activities



Services Expo: Businesses, nonprofit organizations and government agencies are displaying educational and technical information about their programs and products both days of the Summit in the Exhibit Hall.

Student Science Posters: Students from area colleges were invited to submit posters on a variety of ways legacy mining impacts our lives today, and policies, technologies and programs that address these impacts. Please make sure to visit the posters in the Exhibit Hall, and vote for your favorite! “People’s Choice” awards will be given out at lunch on Tuesday.

Sticky Note Activity: Conference participants are encouraged to write down ideas, questions, or concerns that arise during the course of conference activities, and stick them to the large Working Group posters hanging in each of the workshop venues. These comments will be compiled and analyzed for use in the Community Summit activities on Tuesday afternoon.

Sierra Environmental Services Directory: To continue building the networking framework after this conference, The Sierra Fund is developing a comprehensive e-directory of the broad range of businesses, organizations and agencies providing environmental restoration services in the Sierra (and indirect services such as legal or financial expertise). Listing in the Directory is free – you can fill out an entry using the computer station located at conference registration.

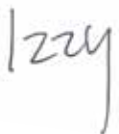
Dear Summit Participant,

I am proud to welcome you to Reclaiming the Sierra: A Community Summit on Mining Impacts. Thank you for choosing to invest some of your time at this event, the first of its kind in California.

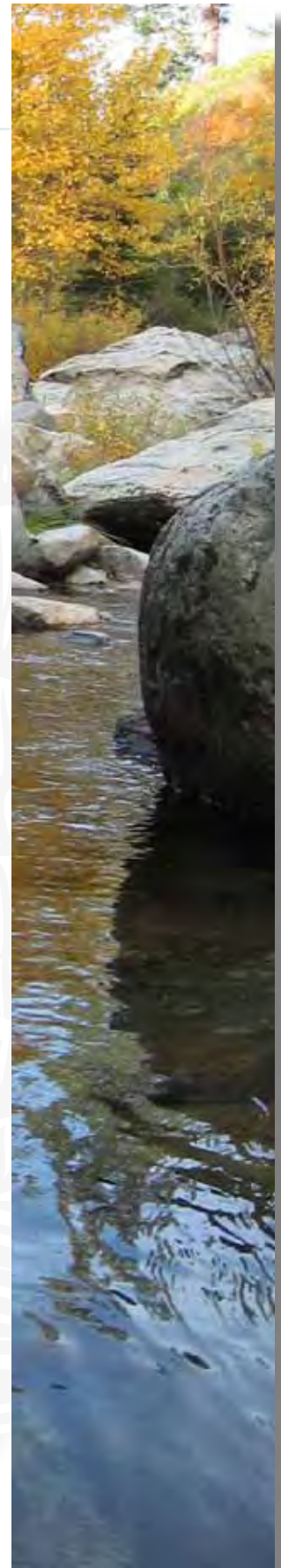
The Sierra Fund's Initiative to address the ongoing effects of historic mining has been unfolding over the last five years, but the roots of this problem lie deep in the Gold Rush itself. In order to move forward, we must all acknowledge both the terrible, destructive nature of the mining times – including their lasting cultural, health, and environmental impacts – and also the importance of the gold recovered in these mines to our state and nation. Our Initiative brings together the people with the expertise and the passion to work through the obstacles that time, neglect and ignorance have created, in order to address the long term impacts of abandoned mines.

At this Summit we hope to incubate a new approach, one that works to set right what was done wrong, and builds a new future for the Gold Country, a future that includes reclamation of mines while creating jobs and green mining products. There is work to be done to remove the legacy mercury from our creeks and rivers, to clean up the acid mine drainage, and to remove the hydraulic gravels choking our water courses.

The time has come to Reclaim the Sierra.



Elizabeth "Izzy" Martin
Chief Executive Officer
The Sierra Fund



Agenda

Monday, November 8

9:00 am - 1:00 pm Registration

Coffee and light refreshments available all day

9:30 am Opening Circle, Tsi-Akim Maidu

10:00 – 11:45 Tours (See page 5)

1. Historic Nevada City
2. Nevada City EPA Brownfields Assessment Sites
3. Maidu Cultural Sites
4. Empire Mine State Historic Park

Lunch on your own in Nevada City

1:00 - 2:15 pm First Series of Workshops (See page 7 for descriptions)

Encouraging Voluntary Cleanups (Great Hall)
Abandoned Mines and the Conservation Movement (Stone Hall)
Talking about Local Fish Advisories in Sierra Clinics (City Hall)

2:30 - 3:45 pm Second Series of Workshops (See page 8 for descriptions)

Remediation Case Studies (Great Hall)
Stimulating Gold Country Economies: Building the Workforce, and Smart Growth (Stone Hall)
Research around Human Exposure to Mining Toxins (City Hall)

4:00 *Summit Welcome and Introductions (Great Hall)*
Don Ryberg, Tsi-Akim Maidu Tribe
Izzy Martin, TSF

4:15-5:15 pm Keynote Speaker Jane Hightower, MD (Great Hall)

5:15 - 5:45 pm Mercury and Wildlife: A Play in Maidu (Great Hall)
Directed by Farrell Cunningham

6:00 - 7:00 pm Reception (Stonehouse Restaurant, 107 Sacramento Street)
Appetizers, drinks, music and a short program to recognize extraordinary contributions of leaders in the effort to Reclaim the Sierra



Agenda

Tuesday, November 9

8:30 am - noon Registration

Coffee and light refreshments available all day

9:00 am Welcome and Overview of the Day (Great Hall)

9:15 – 10:00 am Keynote Speaker Gray Brechin, Ph.D. (Great Hall)

10:15 – 11:15 am Third Series of Workshops (See page 11 for descriptions)

Federal Policy: 1872 Mining Law Reform (Great Hall)

Financing Remediation on Public, Tribal, Nonprofit and Private Land (Stone Hall)

How to Conduct Public Outreach about Human Health and Mining Toxins (City Hall)

11:30 -12:30 am Fourth Series of Workshops (See page 12 for descriptions)

California Tribal Peoples Leading Cultural and Environmental Healing (Great Hall)

Best Management Practices & Stimulating New Technologies (Stone Hall)

Green Mining and Abandoned Mine Reclamation (City Hall)

12:45 pm Lunch Served (Great Hall)

Refreshments for this event provided by the Stonehouse Hospitality Academy.

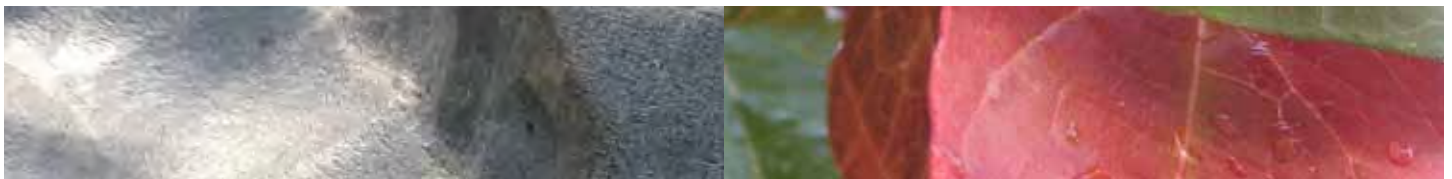
1:45 pm Community Summit Convenes (Great Hall)

A facilitated conversation on next steps to reclaim our Sierra from the impacts of historic mining. Participants of all levels of expertise will be encouraged to participate in brainstorming and planning. This time will be divided into four sections:

1. Human Health
2. Environmental Sciences
(Cookies & Coffee Break)
3. Outreach
4. Public Policy

4:30 pm Closing Panel: Community Involvement in ReClaiming The Sierra (Great Hall)
Local, regional and statewide leaders provide their “take home” message from the conference

5:00 pm Closing Words



Summit Highlights

Walking Tours - Monday at 10:00 am - More Info at Registration

Historic Nevada City - Covers prominent historical sites in the “Queen of the Northern Mines” and one of the most well-preserved towns in the Sierra

Nevada City EPA Brownfields - Nevada City received the first EPA Brownfields Assessment grant for mine-scarred lands in the nation. Hear about the sites that were assessed, and the cleanup plans now underway.

Maidu Cultural Sites - Led by members of the Tsi-Akim Maidu Tribe, with stops at significant tribal heritage sites and the recently erected bark house

Empire Mine State Historic Park - Visit the site of the oldest, largest, and richest gold mine in California, producing 5.8 million ounces of gold between 1850 and 1956

Keynote Speeches:

Why Doctors need to tell their patients in the Gold Country about Fish Consumption Advisories - Monday at 4:15 pm

Jane Hightower, MD, author of *Diagnosis: Mercury* will talk about the human health consequences of eating fish contaminated with mercury and the difficulties she has faced as a physician trying to determine a safe level of mercury in humans and to treat her patients with mercury related illnesses.

A Historical Perspective on the Legacy of the Gold Rush - Tuesday at 9:15 am

Gray Brechin, Ph.D. is the author of “Imperial San Francisco: Urban Power, Earthly Ruin”, a celebrated history of those who gained power through Sierra resources including mining, ranching, water and energy. He will talk about the people who worked in the mines and the role that gold played in building California.

Mercury and Wildlife: A Play in Maidu - Monday at 5:15 pm

An original play in the Maidu language about mercury contamination impacts on wildlife, written and directed by Farrell Cunningham. Maidu actors dressed as a state park ranger, a water ousel, salmon, and other wild creatures depict the problem of mercury contamination, while their words are translated into English by other actors on stage.

Community Summit on Reclaiming the Sierra - Tuesday Afternoon

A Call to Action: Izzy Martin, CEO of The Sierra Fund, will summarize the challenge for the Summit and present the draft “Reclaiming the Sierra Platform for Action” summarizing the recommendations for long term goals and immediate actions from the four committees of the Mining Toxins Working Group. All participants in the Community Summit will be invited to participate in facilitated activities to discuss and refine these recommendations. A platform for immediate action will be developed from this conversation for implementation by the Working Group as a whole.

Workshops Series I

Monday, November 8 - 1:00 to 2:15 pm

Encouraging Voluntary Cleanups (Great Hall)

Panelists will explore the obstacles to remediating abandoned mines on private and public land, including the role that the Clean Water Act plays in remediation, the difference in remediation requirements between state and federal regulations, and explore ways to incentivize cleanup. **Facilitator Leah Goldberg, Meyers Nave.**

- **Debbie Schechter, EPA Region 9** will describe the Brownfields program, the Clean Water Act, Superfund, and other rules that impact mine remediation
- **Phil Woodward, Central Valley Regional Water Quality Control Board** will talk about how CA's unique state regulations around water quality impact abandoned mine remediation and opportunities to improve incentives for remediation
- **Steve Becker, Department of Toxic Substances Control** will discuss CA's current approach to abandoned mine remediation and how DTSC works with other agencies including local government to oversee cleanups
- **Tim Vendlinski, Sustainable Conservation** will present his research on Good Samaritan efforts to remediate an abandoned mercury mine on Mt. Diablo in the Bay Area.

Abandoned Mines and the Conservation Movement (Stone Hall)

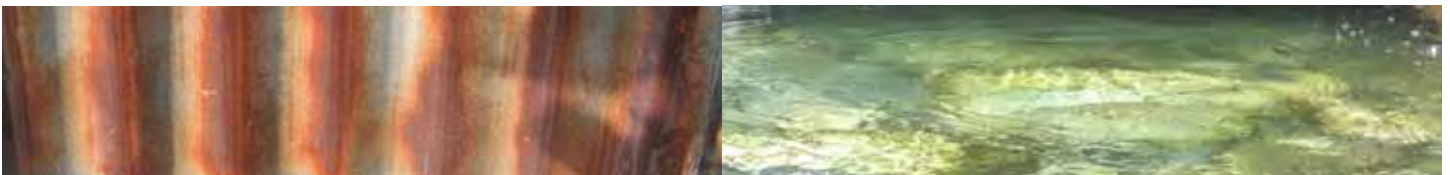
Conservation organizations involved in trail building, wetlands development or acquisition of lands for open space are not fully aware of the many serious environmental and public health threats posed by abandoned mines. Panelists will explore the challenges and opportunities associated with bringing awareness about abandoned mines to the conservation movement. **Facilitator David Brownstein, Wolf Creek Community Alliance.**

- **Jason Rainey, South Yuba River Citizens League** will talk about the impact of legacy mercury from gold mining on the effort to remove Englebright Dam to restore fish passage in the Yuba, and their work with CALFED to characterize this mercury contamination
- **Ellison Folk, Shute, Mihaly & Weinberger LLP** will talk about abandoned mine remediation efforts and liability issues that she encountered as part of The Abandoned Mine Alliance formed in the early 2000's, **Elizabeth Russell, Trout Unlimited** will address why TU started working on abandoned mine lands cleanups, and the liability issues and Good Samaritan tools that have been successful in their work

Talking about Local Fish Advisories in Sierra Clinics (City Hall – map on page 43)

This workshop will explore how to reach out to medical doctors to increase their awareness of the very serious health problems associated with eating mercury-contaminated fish, and to urge the inclusion of this information in their work with especially pregnant and nursing mothers. **Facilitator Peter Van Zant, Sierra Watch.**

- **Jane Hightower, MD** will speak about the health effects of mercury consumption, current mercury consumption limits and how they need to be changed, and what doctors can tell their patients
- **Becky Damazo, RN, CSU, Chico** will talk about her experiences at Sierra clinics and the recently completed pilot test of an Environmental Health History survey
- **Sherri Norris, California Indian Environmental Alliance** will present CIEA's recently released Mercury Toolkit for clinic staff



Workshop Series 2

Monday, November 8 - 2:30 to 3:45 pm

Remediation Case Studies (Great Hall)

Case studies present a tangible opportunity to evaluate remediation options, redevelopment issues, and best management practices. Panelists will discuss lessons from these case studies in California as well as other western states to learn how to maximize remediation efforts in the future. **Facilitator Stephen McCord, Ph.D., Larry Walker Associates.**

- **Richard Sykes, East Bay Municipal Utility District** will talk about the Penn Mine remediation project by EBMUD in the Sierra Foothills
- **Elizabeth Russell, Trout Unlimited** will present mine remediation efforts at Kerber Creek in Colorado
- **Rick Humphreys, State Water Resource Control Board** will discuss California's Mercury Collection Program that provides a safe disposal route for legacy mercury found when panning or suction dredging for gold
- **Daniel Reidy, attorney at law** will present information on the Central Eureka Mine remediation in Amador County, CA and impacts of abandoned mines on residential development

Stimulating Gold Country Economies: Building the Workforce, and Smart Growth (Stone Hall)

Rural communities, struggling with economic depression and the loss of mining and forestry jobs, are looking to a new economy based on tourism, recreation, resource management and real estate. Assessing and cleaning up abandoned mines at the center of our Gold Country towns helps to create jobs, promote smart growth, and protects California's water quality. **Facilitator Jonathan Kusel, Sierra Institute for Community and Environment.**

- **Steve Wilensky, Calaveras County Board of Supervisors** will talk about linking mine remediation to job training and building a workforce to reclaim the Sierra
- **Bill Finley, Private Industry Council** will talk about how to use state and federal job training programs to help reclaim the Sierra, and build a workforce and jobs program
- **Joe Heckel, Grass Valley Community Development Agency** will describe the current Brownfields Community-Wide Assessment project underway in Grass Valley and why the City decided to conduct the assessment as part of their "smart growth planning"
- **Reinette Senum, Nevada City Council** will talk about Nevada City's EPA funded Brownfields Assessment and Cleanup project and how it dovetails with their sustainability efforts

Research around Human Exposure to Mining Toxins (City Hall – see map on page 43)

The lack of data about the impacts of human exposure to mining toxins is one of the major obstacles to addressing this problem. Data gaps and strategies to best fill them discussed, as well as current new pilot studies. **Facilitator Fraser Shilling, Ph.D., UC Davis.**

- **Robert Brodberg, California Office of Environmental Health Hazard Assessment** will talk about the process of establishing fish advisories and data needed to develop them
- **Perry Myers, Department of Toxic Substances Control** will talk about DTSC's study on the bioavailability of arsenic in the Sierra Nevada
- **Carrie Monohan, The Sierra Fund** will discuss findings of The Sierra Fund's pilot exposure studies, the *Gold Country Angler Survey* and the *Recreational Trails and Abandoned Mines Assessment*





THE SIERRA FUND is an innovative community foundation for the environment, established in 2001. We partner with private donors and public agencies to save the Sierra by increasing and organizing investment in protecting and restoring the region's human and natural resources. We pursue this mission in three ways:

- **Advocacy** to bring public funding to the region;
- **Philanthropy** to provide a vehicle for private funding in the region; and
- **Strategic Campaigns** that pursue critically needed programs for the Sierra Nevada.

The Sierra Fund has leveraged more than \$90 million in public and private funding for key efforts in the Sierra, including playing a leadership role in establishment of the Sierra Nevada Conservancy in 2004.

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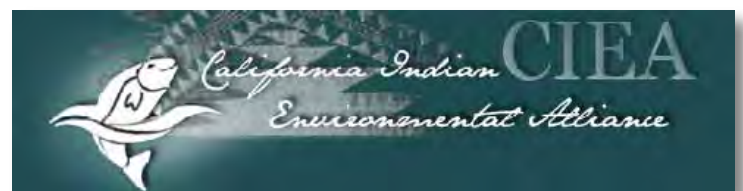


"The gold belongs to the river - but the mercury needs to come out," the man said as he proceeded to place native gold nuggets on an osprey feather and release this precious shipment down the North Yuba River.

Standing with him and a small group of scientists and Forest Service personnel, I watched as the feather drifted into currents carrying gold on its back. We listened to his story: that his life work is to remove mercury and give the gold back to the river, rather than recover gold for profit. This man had been a suction dredger, and now wanted to know how he was going to get the mercury out of the river, since that he was no longer allowed to operate his recreational dredge.

Our conference logo, a stylized image of the feather carrying gold back to the river, was inspired by this man's work, representing the overwhelming dedication of many individuals to reclaim our Sierra.

- Carrie Monohan



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Workshop Series 3

Tuesday, November 9 - 10:15 to 11:15 am

Federal Policy: 1872 Mining Law Reform (Great Hall)

A national effort is underway to reform this powerful 19th century law to require full mitigation of all impacts of any new mining, and to add a “precious metals fee” that will generate funds for legacy abandoned mine cleanup. Panelists will help Californians understand this law that declares mining as the “best highest use of land.” **Facilitator Tom Mooers, Sierra Watch.**

- **Velma Smith, Pew Charitable Trusts** will describe the Pew Campaign for Mining Reform and the reasons behind their call for reform of the 1872 Mining Law
- **Lauren Pagel, EARTHWORKS** will describe her organization’s activities and their national work to reform the 1872 Mining Law
- **Bob Joehnck, The Sierra Fund** will talk about how the 1872 Mining Law impacts efforts in California to remediate abandoned mines and how it compares to other federal policy change options

Financing Remediation on Public, Tribal, Nonprofit and Private Land (Stone Hall)

There are both challenges and opportunities associated with financing mine remediation. Panelists will present how nonprofit, state, federal and tribal organizations can support remediation projects using various funding sources.

Facilitator Jim Branham, Sierra Nevada Conservancy.

- **Ignacio Dayrit, Center for Creative Land Recycling** will discuss the methods that they have used to remediate and re-use brownfield lands in cities around the state
- **Jon Blinder, Gold Country Lenders, Inc.** will talk about how his efforts to build a “smart growth” project were stalled by mining toxins
- **Bill Haigh, Bureau of Land Management** will talk about how BLM prioritizes projects for remediation and how their programs are funded

How to Conduct Public Outreach about Human Health and Mining Toxins (City Hall – see map on page 43)

The most immediate way to protect public health from historic mining toxins in the Sierra is to educate the public about how to avoid exposure. Panelists will present insight into the kinds of public outreach around health issues that have been successful – or not – in their work, and what approaches may be successful in the future. **Facilitator Roger Hicks, MD, YubaDocs.**

- **Ken Cutler, Sierra County Public Health Officer** will talk about what counties and First 5’s in the Sierra can do to increase awareness about the health impacts of mining toxins
- **Sherri Norris, California Indian Environmental Alliance** will present her organization’s efforts to raise public awareness about mercury in fish, especially with tribal members
- **Wesley Nicks, Nevada County Environmental Health**, how Nevada County addresses environmental contaminants from abandoned mines
- **Mike Thornton, The Sierra Fund** will present lessons learned and impacts from The Sierra Fund’s outreach efforts around legacy mining toxins



Workshop Series 4

Tuesday, November 9 - 11:30 am to 12:30 pm

California Tribal Peoples Leading Cultural and Environmental Healing (Great Hall)

The horrifying effects of the 19th century Gold Rush on California's native population have been well documented, but it is less well known that many of these impacts continue to affect the cultural practices of today's native people and the natural environment. Tribal leaders are in a unique position to address these ongoing impacts, and have been an important voice in bringing the problems with abandoned mines to light. **Facilitator Steve Rothert, American Rivers.**

- **Mark Franco, Winnemum Wintun** will address his tribe's work with the conservation community for environmental justice
- **Steven Haberfeld, Ph.D., Indian Dispute Resolution Service, Inc.** will speak about the unique leverage tribes have by virtue of their separate nation status and the federal government's trust responsibility to protect and enhance resources on federal lands on behalf of Indian tribes
- **Don Ryberg, Tsi-Akim Maidu Tribe** will describe his involvement in raising awareness among indigenous people about the impacts of mercury on fish through a series of Tribal and Community Convergences

Best Management Practices & Stimulating New Technologies (Stone Hall)

This panel will discuss how to define and stimulate best management practices for mine remediation activities and facilities maintenance that are protective of the greater ecosystem, food chain and downstream communities. New technologies are critical to developing the tools to monitor impacts and long term benefits. **Facilitator Alice Rich, Ph.D., AA Rich & Associates.**

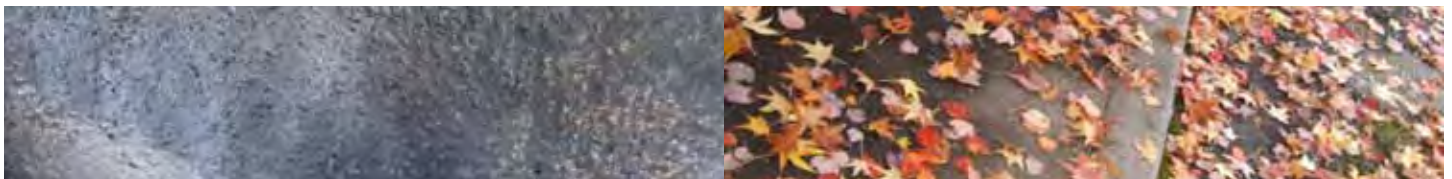
- **Victor Izzo, Central Valley Regional Water Quality Control Board** will discuss the Board's responsibility to protect and preserve water quality in watersheds with abandoned mines, as well as challenges and needs
- **Charles Alpers, Ph.D., US Geological Survey** will discuss fate and transport of contaminants in a watershed with abandoned mines, and their potential impacts on the aquatic and terrestrial ecosystems
- **Tom Parilo, Nevada Irrigation District** will talk about the new technology for removal of mercury from sediment in NID's Combie Reservoir

Green Mining and Abandoned Mine Reclamation (City Hall – see map on page 43)

Under the right conditions, cleaning up abandoned mine sites could be profitable. This panel will discuss economic incentives for remediation of abandoned mine sites such as re-mining, job creation, new technologies and site re-use.

Facilitator John Lane, Chico Environmental Science and Planning.

- **Becky Woods, Teichert Materials** will discuss the potential for cleanup of legacy mercury in the process of gravel mining
- **Adam Harper, California Construction and Industrial Materials Association (CalCIMA)** will talk about the mining industry's perspective on current mining and potential impacts on abandoned mines
- **Mike Miller, Original 16 to 1 Mine** will present the perspective and practices of a current hard rock gold mine
- **Jim Pompy, CA Office of Mine Reclamation** will present the regulatory framework for the mining industry, mine remediation and abandoned mine re-use



In Memoriam: Honoring Tracy Gidel



Tracy Gidel served as The Sierra Fund's Mining Initiative environmental health specialist for over two years. His enthusiastic advice shaped our program, and was pivotal in building the momentum needed to finally address the many problems associated with abandoned mine remediation. During retirement he was involved with the CA Abandoned Mine Lands Forum and The Sierra Fund. His knowledge and commitment to resolving these problems have and will continue to benefit everyone in this state in a very real way.

One example: In 1999 Tracy brought to public attention the abandoned copper mine in the Spenceville Wildlife Refuge in Nevada County. His tough determination led directly to the remediation of that mine. A visit to the Refuge is a great illustration of Tracy's legacy -- a hill covered with grass and flowers, with clear water flowing by, instead of the wreck of dirt, rocks and oozing brown water that was there for decades.

Tracy was born on Dec. 17, 1948, in Lake City, Iowa, and spent his childhood years living in Iowa, California and Arizona. He graduated from William S. Hart High School in Newhall, Calif., in 1967. Upon graduating high school, Tracy enlisted in the Navy Seabees. He served in Vietnam and two tours of duty in the Antarctic. After his military service he attended California State University, Northridge. He graduated with a Bachelor of Science degree in Environmental and Occupational Health. He was employed by the Nevada County Environmental Health Department for 26 years, retiring in 2007.

Tracy passed away July 12, 2010. He is survived by his wife of 30 years, Alice; his daughters Renee Alyce Gidel, Erin Kathleen Gidel, Alaina Marie Irvin (Derek) and Ann Marie Chevette; his mother Lorraine Gidel; sisters Alane Gidel and Deva Dixon (Frank), grandchildren Jacqi, Tracy John, Dalaina, Alyssa and Mackenzie; and many aunts, uncles, cousins, nieces, nephews, friends and his faithful dog, Belle.

Thank you, Tracy.



Mining Initiative

The Sierra Fund's Mining's Toxic Legacy Initiative:

Since 2005, The Sierra Fund (TSF) Mining's Toxic Legacy Initiative has brought together partners from local, state, federal, and tribal governments as well as from the academic, health, and environmental communities.

Our goal is to build a movement that can address threats to the California's watershed posed by legacy mining toxins, and help to protect the health of humans and the environment throughout the state through new research, intensive community outreach and education, and advocacy for policy changes that refine regulation and bring funding to this long-neglected issue. We support the efforts of local, state and federal government regulators and scientists to resolve these problems.

In March 2008, TSF stimulated the first-ever State Assembly hearings on the impacts of legacy mining toxins on California when we released our 85-page *Mining's Toxic Legacy* report, laying out our priorities for action. Since that time we have made real impact:

- Suction dredge mining activity has been suspended in California pending development of new rules, due in part to our efforts to publicize its impact on mobilizing mercury.
- We worked with the office of US Senator Feinstein as part of a successful national effort to win \$107 million for abandoned mine cleanup in the American Recover and Reinvestment Act (ARRA), and are now supporting a \$3 million "earmark" for a mercury remediation pilot project.
- We have met with public and local officials in all 22 Sierra counties, resulting in new programs or practices to address abandoned mines in their jurisdiction.
- In 2009 we worked with House Subcommittee on Energy and Mineral Resources staff to plan a congressional field hearing about "Abandoned Mines & Mercury" and then testified at the hearing and subsequent field tour

We produced three groundbreaking studies to learn about the ways Sierra residents may be exposed to pollution from abandoned mines.

A Mining Toxins Working Group: TSF's Initiative has begun to build an effective movement that covers a vast range of interests, professions, and geographic territory. We are now working to move the forum that is the driving force of this Initiative beyond our doors, to create a mature, self-sustaining movement. This is one goal of our Reclaiming the Sierra conference.

TSF and our Initiative advisors have worked to envision a structure for this group that will foster collaboration among the many disciplines involved, while simultaneously encouraging members to advance cutting-edge studies in their field of expertise. Advisors gathered for a retreat in October 2009 to lay out the operations of this group, while goals and objectives have been refined in conference calls over the last year.

The outcome of this collaborative thinking is a Mining Toxins Working Group, regional in scope, consisting of four committees each focused on distinct elements of mining's toxic legacy in the Sierra Nevada: Science & Technology, Human Health, Policy Change, and Outreach. The Science and Health committees will focus on cutting edge research and new technologies. The Policy and Outreach committees will ensure that the public affected by legacy toxins is active in this process so that research, the community voice and policy actions mutually inform one another.

Initiative Advisors

Special thanks to these advisors who have donated many hours of time in helping to advance public understanding of the issues and opportunities in reclaiming the Sierra Nevada. Your dedication is inspiring, and your input invaluable.

Community Mining Project Advisors

Dr. Dave Brown, CSU Chico, Dept. of Geological & Environmental Sciences
Katie Burdick, Consumnes, American, Bear, Yuba Integrated Regional Water Management Program
Dr. Kenneth Cutler, Nevada County First 5 Commission
Debbi Davis, Environmental Justice Water Coalition
Becky Damazo, RN, CSU Chico, School of Nursing
Roberto Garcia, United Native Nations
Alison Harvey, Friends of the North Fork American River
Dr. Roger Hicks, YubaDocs Urgent Care
Bob Joehnck, The Sierra Fund
Jonathan Kusel, Sierra Institute for Community & Environment
John Lane, Chico Environmental Science and Planning, LLC
John Lane, Teichert Materials
Kyle Leach, Consulting Geologist
Stephen McCord, Larry Walker Associates
Dr. Bill Murphy, CSU Chico Dept. of Geological & Environmental Sciences
Wesley Nicks, Nevada County Environmental Health
Sherri Norris, California Indian Environmental Alliance
Dr. Peggy O'Day, UC Merced Department of Geochemistry
Michael Ben Ortiz, Calling Back the Salmon Committee
Don Ryberg, Chair, Tsi-Akim Maidu Tribe
Dr. Fraser Shilling, UC Davis Department of Environmental Science and Policy
Steve Wilensky, Calaveras County Supervisor

Agency Advisors

Randy Adams and Sandy Karinen, CA Dept of Toxics Substance Control
Dr. Charles Alpers, US Geological Survey
Sarah Reeves, Abandoned Mine Lands Unit, CA Department of Conservation
Diane Colborn, CA State Assembly Water, Parks & Wildlife Committee
Rick Humphreys, State Water Resources Control Board
Victor Izzo, Central Valley Regional Water Quality Control Board
Bill Haigh, US Bureau of Land Management
Kathryn Tobias, CA Dept. of State Parks and Recreation
Alyce Ujihara, CA Dept. of Public Health
Rick Weaver, USDA Forest Service



Many Thanks

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Mining Toxins Working Group

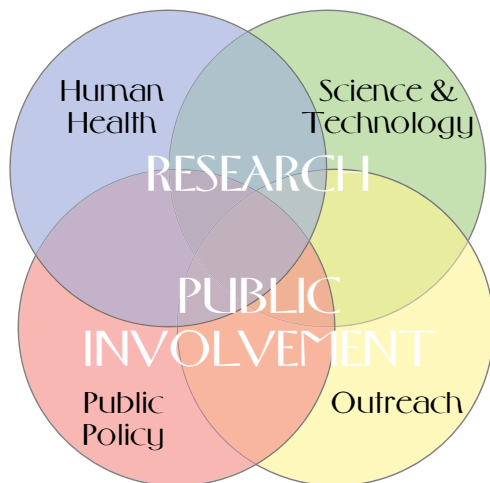
A new collaborative structure to address the Sierra Nevada's oldest environmental problem

Mission

Support stakeholders and communities within affected areas to recognize and believe in the problem; help incubate and implement science, business and policy solutions to address the problem; inspire leaders to move affected communities into action to fix the problem; and create an accessible clearinghouse of information and funding to support these activities.

Structure

The Mining Toxins Working Group is made up of four committees:



The **Human Health Committee** will provide information and education to the public about the ongoing human health effects of historic mining in the Sierra. The **Science and Technology Committee** will promote the adoption of research-based technologies and practices for mine remediation and assessment. The **Public Policy Committee** will promote policies that support public awareness, refine regulations, and enhance funding for initiatives that address historic mining contamination.

The **Outreach Committee** will create a vibrant, self-sustaining movement with a dynamic, multi-directional flow of information between the Working Group committees and the Sierra community, so that emerging research, community interests, and public policy inform one another. This committee will also ensure communication and collaboration among all four Working Group committees.

The Mining Toxins Working Group will take a cautious approach to public policy issues, with an emphasis on providing scientific and technological input to key constituencies. The Working Group will maintain a clear separation between its scientific and technological review activities and its policy activities.

Participants

Public participation is encouraged in all aspects of the Working Group, because in order to effectively address the Sierra Nevada's ongoing impacts from historic mining, the citizens who are affected must be knowledgeable about the problems, and involved in creating solutions.

Existing and potential members of the Working Group include representatives of: Sierra communities and leaders; tribal peoples; local, state, federal and tribal agencies; businesses; industry; experienced miners; academic researchers and students; nonprofit organizations with a focus on health, recreation, watershed restoration, or land conservation; foundations; and health care providers. Each committee will continue to network and recruit new members.

An active discussion and information sharing among Working Group members will be supported by an interactive web-based forum. Additionally, the four Working Group committees hold quarterly meetings that are open to the public with teleconferencing available for remote participation.

Human Health Committee

Goal

Provide resources and education about the ongoing human health effects of historic mining in the Sierra to the public, medical professionals, researchers, clinic staff, public health officials, and environmental advocates.

Tasks

TASK: Inventory and review existing and developing health information

- Action: Share existing information among committee participants
- Action: Follow up on current and new studies
- Action: Post information in Working Group clearing house
- Action: Collaborate with researchers and leaders in the field
- Action: Stimulate and follow up on research case studies including: Angler, Recreation and Environmental Health History Form pilot projects

TASK: Communicate the health problem to the public

- Action: Develop methods to disseminate existing health information
- Action: Support posting and advisories for fish consumption
- Action: Support posting of mining toxins and associated advisories

TASK: Communicate the health problem to physicians and clinics

- Action: Develop methods to disseminate existing health information
- Action: Develop continuing education curriculum
- Action: Sponsor education events for doctors
- Action: Provide maps and area-specific fish advisories to clarify the extent of the problem and make it easy to inform patients
- Action: Ensure that information about the Working Group is visible in medical and scientific journals
- Action: Outreach to rural health clinics in the Sierra

TASK: Recommend research and promote studies

- Action: Define critical data gaps
- Action: Promote the development of new research
- Action: Establish relationships with research institutions
- Action: Lay the groundwork for a full scale epidemiological study

TASK: Expand Committee Network and Resources

- Action: Recruit committee members, especially medical researchers
- Action: Identify grant opportunities
- Action: Advocate for public, private and philanthropic funding

Science and Technology Committee

Goal

Support strategic development and adoption of effective technologies and management practices for mine remediation and assessment; and identify critical gaps in the science that will help inform these developments.

Tasks

TASK: Inventory and evaluate existing practices and technologies

- Action: Develop protocols for evaluating remediation technologies
- Action: Develop protocols for evaluating existing practices
- Action: Provide science-based peer and technical review and advice on developing new technologies
- Action: Post information in Working Group clearing house

TASK: Select case studies for remediation investigations, feasibility studies and site remediation

- Action: Learn about proposed projects and technologies
- Action: Review existing projects' successes and failures
- Action: Develop a "ready to go" list of projects
- Action: Prioritize projects in the region, with a decision support tool
- Action: Promote and seek funding for pilot projects
- Action: Select a pilot project for each chemical of concern (arsenic, lead, mercury) so that a variety of technologies can be evaluated, and areas can be identified where new technology needs to be developed.

TASK: Promote new technology development

- Action: Sponsor "technology competition"
- Action: Coordinate/facilitate entrepreneurial activities
- Action: Provide information on patents and options to evaluate technology
- Action: Assist with new remediation technologies permitting requirements.

TASK: Recommend research and development

- Action: Identify critical data gaps in the science
- Action: Promote the study of the fate and transport of toxins
- Action: Promote the study the effects of toxins on wildlife
- Action: Define and prioritize research questions

Public Policy Committee

Goal

Advocate for public policies that support the public's right to know, strengthen regulations around toxic substances, and create funding mechanisms for remediation of abandoned mines.

Tasks

TASK: Support local governments in being proactive and seeking the resources to address abandoned mine problems

Action: Encourage local governments to apply for EPA Brownfield Grants

Action: Support the adoption of General Plan policies that ensure abandoned mines on private property are mapped, assessed and remediated

Action: Support understandable and visible posting of fish advisories

TASK: Support state government to protect water and air from contamination by mining toxins

Action: Raise gold fee and dedicate this money to programs that remove legacy mercury

Action: Reform suction dredge mining permit regulation by DFG to address mercury management

Action: Encourage the establishment of "Best Management Practices" to minimize mercury methylation in wetlands development & reservoir management

Action: Support posting of mine sites with physical or chemical hazards

Action: Support the adoption of new administrative regulations by the SWRCB to encourage voluntary cleanups by nonprofits and local government

TASK: Support federal land management agencies to be more active to assess and address the problems caused by abandoned mines on their property

Action: Create funding mechanism for USFS and BLM to address their abandoned mines for both toxic and physical hazards, especially parks

Action: Convene a California Federal Land Managers discussion at EPA Region 9

Action: Seek EPA approval process for the CA Department of Toxics Substances Control Voluntary Cleanup Program (VCP)

Action: Amend the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly known as Superfund, to encourage Good Samaritan remediation of mines by nonprofit and governmental organizations

Outreach Committee

Goal

Create a self-sustaining movement by empowering Sierra residents and leaders to reduce historic mine contamination in their communities through opportunities for meaningful input, sharing current information and creating tools and resources to disseminate information.

Tasks

TASK: Establish a communication network for acquiring community input

- Action: In-person outreach through circuit riding
- Action: Conduct interviews of community members with local knowledge
- Action: Establish community “listening posts” in communities throughout the Sierra
- Action: Tailor outreach to key groups such as tribes and local government

TASK: Create and maintain online forum for community input and information sharing

- Action: Create website with clear and current information
- Action: Create interactive online activities to stimulate community participation
- Action: Provide a free searchable network of individuals, agencies, organizations and businesses
- Action: Manage and maintain social media outlets

TASK: Facilitate collaboration among all Working Group committees

- Action: Provide an online forum to stimulate Working Group discussion
- Action: Provide a clearing house of searchable information
- Action: Inform working groups about current events and opportunities

TASK: Highlight other committees’ project developments

- Action: Issue press releases
- Action: Create opportunities for “site visits”
- Action: Distribute and publicize working group information

TASK: Facilitate community involvement in assessment and remediation processes

- Action: Provide information to the public on how to get involved
- Action: Develop model Community Relation Plans for projects
- Action: Hold public meetings about projects

TASK: Stimulate community involvement with grant funded opportunities

- Action: Develop job-training projects
- Action: Develop community planning projects
- Action: Request letters of support for proposals
- Action: Answer questions about grant funded opportunities

Summit Speakers

Biographies A - B

A BIG THANK YOU to all Summit Speakers, who are donating their precious time to share their expertise and enrich our discussions.

Dr. Charles Alpers has an undergraduate degree in geology from Harvard University and a Ph.D. in geology from the University of California, Berkeley. For the past two decades he has been a Research Chemist with the U.S. Geological Survey in Sacramento where his work has focused on environmental problems related to abandoned mine lands. In addition to his work on acid mine drainage from copper mines including Iron Mountain and Penn Mine, he has led several investigations of mercury contamination and bioaccumulation associated with past mining of gold and mercury in the Coast Ranges, the Trinity Mountains, and the Sierra Nevada.

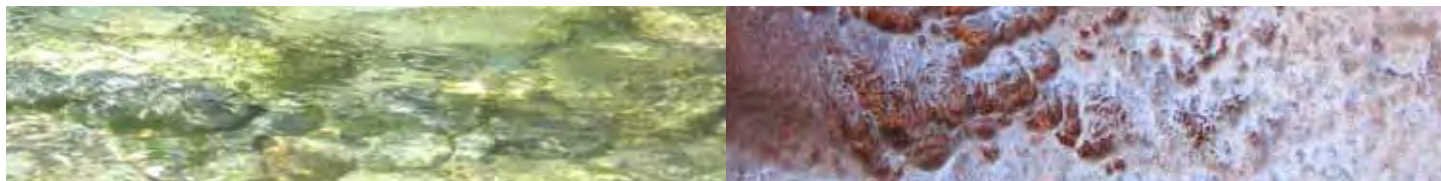
Steven Becker, P.G. is a Supervising Senior Engineering Geologist with the California Department of Toxic Substances Control (DTSC). He oversees regulatory oversight of investigation and cleanup activities on hazardous substances release sites including several Abandoned Mine Land projects located in Northern California. Mr. Becker also serves as regional Brownfield contact for inquiries regarding the various types of regulatory oversight agreements available through DTSC. He has conducted outreach on Abandoned Mine Land issues and projects with various local, state, and federal agencies since starting with DTSC in early 2001.

Jon Blinder graduated from Washington University in St Louis in 1975. He was a founder of the Washington St Cafe and Caterers in TriBeCa, NYC. He moved to Nevada County in 1987 and has been a licensed realtor for 22 years. Jon has been the project manager for the Osborne Hill, Village of South Auburn and Kenny Ranch projects and has worked to resolve mining impacts on these parcels for the past 5 years.



Gray Brechin, Ph.D. is an historical geographer, a frequent radio and television guest, and a popular public speaker. He is currently a visiting scholar in the U.C. Berkeley Department of Geography. His book, *Imperial San Francisco: Urban Power, Earthly Ruin*, is a celebrated history of those who gained power through Sierra resources including mining, ranching, water and energy.

Dr. Robert K. Brodberg is a Senior Toxicologist in the Office of Environmental Health Hazard Assessment (OEHHA), which is part of the California Environmental Protection Agency (Cal/EPA). Dr. Brodberg received his B.S. in biology from Heidelberg College, and his M.S. and Ph.D. in biology from Bowling Green State University. Dr. Brodberg has worked as a risk assessor for the State of California since 1989. He has worked on human health assessments for pesticides, sediment quality objectives, and water quality issues. He is chief of the Fish and Water Quality Evaluation Section responsible for assessing the potential human health risks of eating chemically contaminated sport fish and seafood and issuing sport fish consumption advisories for California.



Summit Speakers

Biographies B - D

Jim Branham has spent more nearly 30 years working on natural resource and rural community issues in California. He was selected as the Sierra Nevada Conservancy's first Executive Officer by the Conservancy Board in October of 2005. Prior to assuming his current position, he served as Undersecretary of the California Environmental Protection Agency from November 2003 through October 2005. Previously, Jim worked under State Senator Jim Nielsen and Governor Pete Wilson, and also worked in the private sector, assisting with the implementation of Pacific Lumber Habitat Conservation and Sustained Yield Plans. Jim graduated from California State University at Chico in 1978 with a Bachelor of Arts in Political Science.

David Brownstein is a resident of Grass Valley, California, where he lives with his family within the Wolf Creek watershed. David is a professional software engineer and an amateur ecologist and a member of Wolf Creek Community Alliance, a watershed conservation group dedicated to preserving and restoring Wolf Creek, which runs through downtown Grass Valley before joining the Bear River in southern Nevada County.

Ken Cutler, MD is the Sierra County Health Officer. He also works as a pediatrician in Truckee, and is the Board Director of the Tahoe Forest Hospital. Dr. Cutler earned his BA in Biochemistry from Yale, his MD from UC San Francisco, and his Masters in Public Health from Emory University in Atlanta, GA.



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Ignacio Dayrit is Director of Programs for the Center for Creative Land Recycling (CCLR) where he coordinates CCLR's technical assistance program for redevelopment projects. He is a redevelopment expert, having spent 21 years with the City of Emeryville, California, where he was responsible for the city's Brownfields Program, and was instrumental in the redevelopment of hundreds of acres of blighted property. Mr. Dayrit has presented and written widely on sustainable Brownfields redevelopment and has over 23

years of experience in public sector development, covering areas such as fiscal and financial analysis, public debt financing, feasibility analyses, public-private partnerships and urban design. He holds a BS in Architecture from the University of the Philippines and a Masters in City Planning from the University of California, Berkeley.



Summit Featured Photographer: David McKay

David B McKay has been a professional photographer for 37 years in Nevada City. He has taught photography since 1975 and currently at Sierra College since 2000. His work has been published in local newspapers, magazines, brochures, books, and calendars, and is in private collections in New York City, Boston, Los Angeles, San Francisco, Sacramento and Seattle as well as Poland (Maine) and can be seen locally at many venues and at his annual Studio Tour in October. For his newest project, David has published Yuba Seasons: Images From the Wild & Scenic South Yuba River. It is a hardbound coffee table book of photographs taken over 13 years and 39 miles of the South Yuba River in all four seasons. It won a Gold Medal for Photography as well as four regional and five national awards including Best Book, and Best Nature Photography Book.



"I am self taught. My adventures with photography started at the age of fifteen with a Yashica Twin Lens 2 1/4 camera given to me by my father. That one gift was the beginning of a never-ending quest to explore and experience every aspect of the photographic realm, from black-and-white to color, hand colored to manipulated Polaroids, pinhole to digital, and old emulsion formulas to hand-made papers."

"People ask me what kind of photography I do. I tell them that all depends on the environment I'm in at the time. If I'm in the city it might be the homeless or people in a park, store window displays or nightlife. As I travel it might be yard art or landscapes and stormy skies. At night it might

be a three-hour time exposure on a moonless night to see what may be in the dark. Some days it's so magical I can't take a bad picture, others I can't make anything work. You can't force creativity. You have to allow it, by being a part of where you are, not as a detached observer. I become something different when I pick up a camera and look through that magical window!"

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Summit Speakers

Biographies D - H

Becky Damazo, RN first worked with The Sierra Fund in 2006 to complete a literature review on Mining Toxics, and conducted y key informant interviews to determine the use of environmental health histories in the Sierra Nevada. Her current work has been to develop an environmental health history form and then pilot test that form. She is a professor in the CSU, Chico School of Nursing. Her career has focused on health in rural communities. She has been an invited speaker on pubic health both nationally and internationally. In 2009 she received the Rotary Club's Teacher of the Year award.



Ellison Folk is a Partner with the legal firm Shute, Mihaly & Weinberger, where she has worked since 1990. Ms. Folk represents community groups, public agencies, and environmental organizations on a wide range of environmental and land use issues, including CEQA, Proposition 65, the Clean Water Act, the Endangered Species Act, and general plan and zoning law. She received her law degree from Boalt Hall School of Law, and she also holds a Master's in city and regional planning from the University of California, Berkeley. Ms. Folk graduated magna cum laude from Princeton University in 1984.

Leah Goldberg is an attorney with Meyers/Nave Law Corporation specializing in re-use and redevelopment of contaminated properties. She works with developers, responsible parties, redevelopment agencies and regulators to develop brownfields agreements and strategies. In addition, Leah practices general environmental and land use law with an emphasis on clean water, underground storage tanks, storm water and wastewater permits, hazardous substances and wastes, California Environmental Quality Act (CEQA) compliance, land use entitlements, Endangered Species Act issues, and Section 404 Wetlands permits. Ms. Goldberg is admitted to practice in California, Colorado and the District of Columbia.

William Haigh is the Field Manager for the Bureau of Land Management's Mother Lode Field Office. He received a BA in Geography from the University of California at Los Angeles and a JD from the McGeorge School of Law, Sacramento. He is a member of the State Bar of California. Mr. Haigh has spent his 25-year BLM tenure as a field manager and as a land use planner. As a supervisory land use planner in BLM's California Desert District, Mr. Haigh directed habitat conservation planning efforts and led teams that prepared environmental impact statements for interstate crude oil and natural gas pipelines and transmission lines. Currently, he directs BLM operations on 230,000 acres of public lands in the Sierra Nevada foothills, and oversees BLM's abandoned mines program within the historic California Gold Rush mining belt.



Adam Harper is the Director of Policy Analysis for the California Construction and Industrial Materials Association (CalCIMA) where he works on legislative and regulatory issues impacting California's mineral industries. Previously, he worked for the California Mining Association as Executive Director prior to the consolidation of the state's three trade



Summit Speakers

Biographies H - J

associations into one statewide group. He also worked previously for Assembly Member Bob Epple and as a student assistant for the California Department of Finance. He has a BA in international affairs with a minor in anthropology from California State University at Sacramento.



Joe C. Heckel serves as the Community Development Director for the City of Grass Valley overseeing their planning, building, code enforcement and redevelopment divisions, a position he has held since 2002. Since graduating from California State University Humboldt with a Bachelor in Science in 1981, Joe has worked in the land use planning profession holding positions in both the private and public sectors. He has a keen interest in the preservation of historic downtowns and using the powers of a redevelopment agency to advance their revitalization. Joe is member of the American Institute of Certified Planners (AICP), the California Association of Building Officials and the California Redevelopment Association (CRA).

Rick Humphreys is a Senior Specialist Engineering Geologist with the State Water Resources Control Board, where he has worked since 1986. Mr.

Humphreys began specializing in mining issues related to water quality in 1991. Mr. Humphreys holds both a BS and a MS in Geology.

Victor Izzo is a registered Professional Geologist who has worked for Regional Water Boards on mines, landfills, Superfund sites and surface impoundments for the past 25 years. Fourteen of those years, he worked on active, inactive and abandoned mines to prevent water quality degradation and cleanup pollution from mine sites. Presently he manages the unit that contains the Central Valley Regional Water Board mining program.



Jane Hightower, M.D. is widely acknowledged as the first U.S. physician to recognize low-level mercury poisoning in patients who regularly consume certain types of fish. Dr. Hightower's book, *Diagnosis: Mercury: Money, Politics, and Poison*, has been widely acclaimed and has brought the issue of mercury in fish to national attention.

Robert Joehnck serves as a consultant to The Sierra Fund's Mining Initiative, working on liability issues associated with assessment and remediation and to help identify potential funding streams for public land cleanup and to explore new models for funding legacy, non-point source pollution. Mr. Joehnck has worked in the public sector on a variety of land use and environmental issues, and was the lead attorney with the Department of Conservations Office of Mine Remediation until his retirement in 2006.



Summit Speakers

Biographies M

Elizabeth “Izzy” Martin, the CEO of The Sierra Fund, is an organizer and advocate with thirty years of experience working in rural communities to promote economic and environmental justice. She worked with farm workers, farmers and environmentalists to develop pioneering programs to promote organic agriculture and reduce community exposure to pesticides. While serving as Nevada County Supervisor Izzy led the fight in the legislature to put the Yuba River into the state’s wild and scenic river system, spearheaded the effort to clean up an abandoned mine in her district, and began a successful five-year campaign to establish the Sierra Nevada Conservancy. Izzy conceived of and directs The Sierra Fund’s Mining Initiative.

Mike Miller is President and Chief Executive Officer of the last fully functional gold mine in California – the Original Sixteen to One Mine in Alleghany. Mike Miller is responsible for the day-to-day operations of the company. In 1975, Miller became the sole proprietor of the Morning Glory Gold Mines. Mike served as a trustee and President of the Sierra County Board of Education (1979 to 1983 trustee; Director in 1976, President in 1983). From 1991 to 1999 he served as a member of the Sierra County Planning Commission (Chairman 1992 and 1993). He is licensed as a California Class A general engineering contractor and is a member of the American Institute of Mining Engineers. In 1965, Mr. Miller received a B.A. from the University of California at Santa Barbara in combined Social Sciences-Economics.

Dr. Carrie Monohan earned her Ph.D. in Forest Engineering and Hydrology in 2004 from the University of Washington, Seattle. Her dissertation work addressed the relationship between water quality in agricultural streams and diminishing salmon habitat. Throughout her graduate program, she was a research assistant to the Northwest Fisheries Science Center, National Oceanic and Atmospheric Administration (NOAA). Other notable recent positions include Senior River Scientist for the Natural Heritage Institute and project manager and lead scientist for the EPA Brownfields Community Wide Assessment in Nevada City. Carrie has worked as a consultant to The Sierra Fund since 2007, and was hired as staff in 2010.

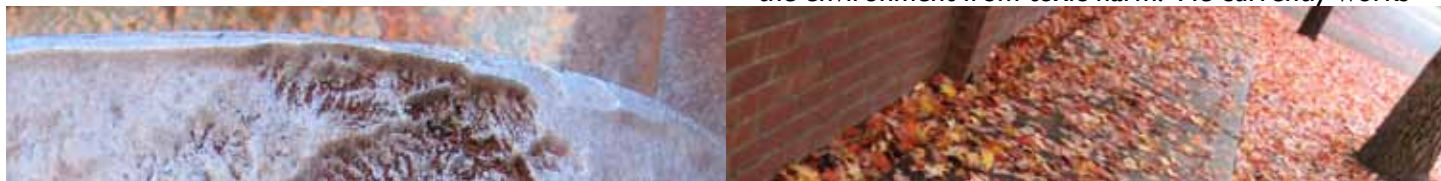
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For the past 30 years, SMW, a law firm specializing in government, land use, natural resource and environmental law, has been at the forefront of the major land use and development issues facing California.



Perry Myers, P.E. has worked as an engineer for the Department of Toxic Substances Control (DTSC) since 2000, including six years with the Brownfields and Environmental Restoration Program as a site cleanup project manager. The mission of the DTSC is to provide the highest level of safety, and to protect public health and the environment from toxic harm. He currently works



Summit Speakers

Biographies P - R

in the Special Projects Office providing engineering support to DTSC project managers. Mr. Myers is the manager for DTSC's study of health risks posed by arsenic at mine scarred lands, which is funded by an U.S. Environmental Protection Agency grant, and has worked on the cleanup of several former mine sites, including the Empire Mine State Historic Park.

Tom Parilo is a professional land use planner with 36 years of experience working in local governmental agencies and as an independent consultant in the Sierra Nevada region. Throughout his career, Parilo has acquired a wealth of experience working on natural resource management projects and in developing and implementing public, land use policy. While serving as a staff planner in the Nevada County Planning Department, he was the lead planner for surface mining and mined land reclamation projects. He served as the Planning Director in the counties of Nevada, El Dorado and Butte from 1985 through 2001.



SIERRA NEVADA ALLIANCE

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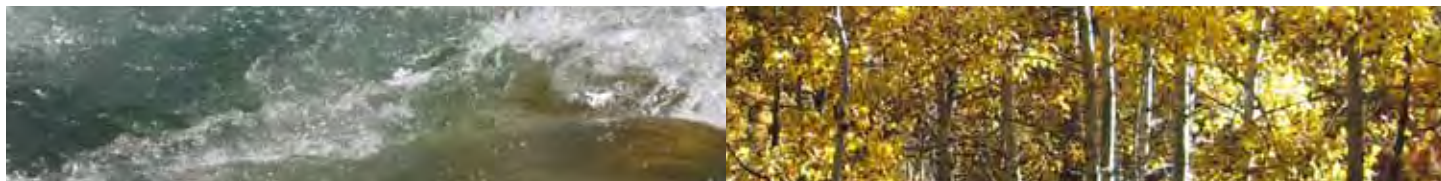
James S. Pompy has managed the Mine Reclamation Unit for the Department of Conservation's Office of Mine Reclamation over the last 24 years. He has provided technical assistance in the review of environmental impact reports and reclamation plans for hundreds of mines in California and has supervised the development of remediation strategies for the several abandoned mine sites, and performed pit design, ore reserve estimation, and reclamation planning. Mr. Pompy holds a Bachelor's of Science in biology from the University of South Dakota, a Master's of Science in mining engineering from the South Dakota School of Mines and Technology, and an MBA from Rice University.

Jason Rainey is Executive Director of the South Yuba River Citizens League (SYRCL). Before joining SYRCL in March 2005, Rainey spent the previous five years as a program director for the Marin Conservation Corps, where he worked on habitat restoration, ecological monitoring, recycling, volunteer coordination, environmental education, and zero-waste event planning. He completed a B.A. in Government/History from Claremont McKenna College and was a Peace Corps Volunteer in the Russian Far East from 1995-1997. His graduate studies include a year at the School of Public & Environmental Affairs at Indiana University (Bloomington) and an M.A. in Humanities & Leadership at New College of CA.

Daniel F. Reidy, Ph.D., J.D., is principal attorney with the Law Offices of Daniel F. Reidy, and has over 33 years of practice in the environmental, land use, and regulatory areas of law. Services provided by the law offices include strategic advice, transactional documentation, advocacy in administrative hearings, and litigation. Clients have included local governments and special purpose districts, public utilities, Indian tribes, non-profits, business parks, real estate developers, ranchers and farmers.



The Sierra Institute for Community and Environment promotes healthy and sustainable forests and watersheds by investing in the well-being of rural communities and strengthening their participation in natural resource decisions and programs.



Summit Speakers

Biographies R - S

Dr Alice A. Rich founded *A.A. Rich and Associates (AAR), Fisheries and Ecological Consultants* in 1983, has had over 30 years of technical and administrative project management experience in a wide range of fisheries-related projects. Dr. Rich's professional experience encompasses work as a fisheries consultant, fisheries biologist, fish physiologist/toxicologist, analytical chemist, and university lecturer. Dr. Rich has worked on projects for a variety of clients, including government agencies, private companies, law firms, and environmental organizations. She has been called upon as an expert witness on the stressful impacts of pollution, water temperature, sediment, water diversions, migration barriers, catch-and-release fishing, and transportation and handling on fishes.



Don Ryberg has served as Executive Director of the Tsi-Akim Maidu non-profit corporation, and Chair of the Tsi-Akim Maidu Tribe, since 1997. Over that time he has led the Tribe in important accomplishments that have contributed to re-vitalizing his tribe, devastated over 150 years ago by the gold rush on their traditional lands in the Sierra. Born third in a family of seven children in Quincy, the family moved to Nevada City in the mid-1950s. Don has made his living as a timber feller and logger, running a

successful business for more than 30 years.

Elizabeth Russell is the Snake River Colorado Project Manager for Trout Unlimited, working on mine restoration projects in the Kerber Creek, Snake River, and Lake Fork of the Arkansas watersheds. She previously worked as the education and outreach coordinator for TU's Colorado Water Project. She earned an M.A. in geography from the University of Colorado at Boulder, and holds a B.A. in geography from San Francisco State University. Before coming to TU, she worked for eight years doing fundraising and political organizing for various non-profit organizations.

Debbie Schechter is the Chief, of the Brownfields & Site Assessment Section, EPA Region 9 covering California, Arizona, Nevada, Hawaii, the Pacific Islands, and 147 tribal nations. She and her staff work with state, tribal, and local governments and communities to investigate, clean up and redevelop contaminated sites. Her group also oversees more than \$30 million in grants for assessment and cleanup of contaminated sites. Ms. Schechter has prior experience at EPA overseeing cleanup and community involvement activities at Superfund sites and working on transportation and air pollution issues. She also has previous environmental experience in the non-profit and private sectors.

[www. reclaimingthesierra.org](http://www.reclaimingthesierra.org)

Visit the new website dedicated to information, outreach, and coordination around efforts to address the impacts of historic mining in the Sierra Nevada. Includes:

- Library of research and databases
- Sierra Environmental Services Directory
- Information on how to get involved
- Networking forum for Mining Toxins Working Group participants
- Conference proceedings and followup discussions

Summit Speakers

Biographies S - W

SIERRA NEVADA
CONSERVANCY



The Sierra Nevada Conservancy initiates, encourages, and supports efforts that improve the environmental, economic and social well-being of the Sierra Nevada Region, its communities and the citizens of California.

Velma Smith is an Officer in Government Relations with the Pew Environment Group, working on a ranging of federal policy issues. In this capacity and as Director for the Pew Campaign for Responsible Mining, she worked on efforts to update the 1872 law that governs hardrock mining on federal public lands. Prior to joining Pew, Velma was Senior Policy Advisor with the National Environmental Trust, where she worked on Superfund, mining and toxics related issues. At Friends of the Earth, Velma worked on a wide range of policy issues, with special emphasis on water pollution.

Richard Sykes is the Manager of the Natural Resources Department for East Bay Municipal Utility District. EBMUD is a water utility serving 1.4 million customers in Oakland, Berkeley and other cities and communities in the East Bay. Richard is responsible for land management of over 50,000 acres in the East Bay and Sierra Foothills. He has degrees in Conservation and Resource Studies, and Environmental Engineering from the University of California, Berkeley. Richard worked on the remediation of the Penn Mine site located adjacent to EBMUD's Camanche Reservoir in Calaveras County.

Becky Wood is manager of environmental services for Teichert Materials' operating properties. She is the past chair of the Cleaner Air Partnership (CAP) and current chair of the CAP Technical Advisory Committee. She has served on the Carl Moyer Advisory Committee, and is a past board member of the Mother Lode Section of the Air and Waste Management Association, chair of the

Environmental Committee for the California Construction and Industrial Materials Association (CalCIMA), and active in the local chapter of Society of Mining Engineers. Becky has an undergraduate degree in geological engineering from the College of Engineering and Mines at the University of Arizona and has completed graduate work in industrial engineering at Arizona State University.

Phil Woodward is Senior Engineering Geologist with the Central Valley Regional Water Quality Control Board. He holds a B.A. in Aquatic Biology from the University of California, Santa Barbara, and an M.S. in Geology, from San Jose State University, as well as Professional Geologist, Certified Engineering Geologist, Certified Hydrogeologist Licenses. He has been employed by the Regional Board in Redding for the past 23 years, and is responsible for regulatory oversight for the cleanup of abandoned mine. Mr. Woodward is the Regional Board project manager for three Federal Superfund sites, including Iron Mountain Mine.



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Leif Bryant	Napa County Flood Control and Water Conservation District	leif.bryant@countyofnapa.org	Corinna Fish		etdropout@hotmail.com
Randal E. Bryant, P.E., P.L.S.	REB Engineering, Inc.	randy@rebengineering.com	Evan Fish		etdropout@hotmail.com
Ray Bryars	CLAIM	raybryars@yahoo.com	Madeleine Flandreau		madeleineflandreau@hotmail.com
Alfred Bulf	Northern Sierra Railway	alfred.bulf@gmail.com	Ellison Folk	Shute, Mihale, & Weinberger	folk@smwlaw.com
Renee Bulf	Golden Sierra	renee.bulf@gmail.com	Robert Fourt, CEG, CHG	Fourt Consulting Group	robert_fcg@comcast.net
Katie Burdick	CABY	katie@cabyregion.org	Pascale Fusshoeller	YubaNet	pascale@yubanet.com
Martin Butler	Turtle Vision	martin@turtlevisionmedia.com	Alice and Renee Gidel		tgidel@dishmail.net
Karen I. Callahan	California Native Plant Society, Redbud Chapter	penstemon@nccn	Christopher Gillis	Solution Mining Inc.	ecotech232@comcast.net
			Leah Goldberg	Meyers, Nave, Riback, Silver & Wilson	lgoldberg@meyersnave.com
			Amy Granat	California Association of 4 Wheel Drive Clubs, Inc	granat.amy@gmail.com

Reclaiming the Sierra Participants

Participant	Affiliation	Email	Participant	Affiliation	Email
Kimberly Grant		kimberly6861@gmail.com	Jonathan Keehn	Wolf Creek Community Alliance	jakeehn@sierraemail.com
Peter Graves	BLM	peter_graves@blm.gov	Jack Kemp	USDA Forest Service	jdkemp@fs.fed.us
Julie Griffith-Flatter	Sierra Nevada Conservancy	jgriffith@sierranevada.ca.gov	David Kupfer		harpo@well.com
James Grill	Western Rivers Preservation Trust	jamesgrill76Aatt.net	Steve Kupferman	Bureau of Land Management	steve_kupferman@blm.gov
John Hadder	Great Basin Resource Watch	john@gbrw.org	Jonathan Kusel	Sierra Institute for Community and Environment	JKusel@SierraInstitute.us
William Haigh	Bureau of Land Management	whaigh@blm.gov	Lisa Lackey	Wolf Creek Community Alliance	lisa@wgiss.com
Adam Harper	California Construction and Industrial Materials Association	aharper@calcima.org	John Lane	Chico Environmental Science & Planning	jlane@chicoenvironmental.com
Elizabeth Haven	SWRCB	lhaven@waterboards.ca.gov	Bill Little	Advanced Geoenvironmental, Inc.	wlittle@advgeoenv.com
Joe Heckel	City of Grass Valley	joe@cityofgrassvalley.com	Tim Lopez	VCAB	motherlode3672003@yahoo.com
Jane M. Hightower,		jhightowermd@aol.com	Kathleen Lucas	Attending with Jon Cheek of Great Basin Resource Watch	jcheek@gbrw.org
Steve Hilton	California State Parks	shilton@parks.ca.gov	David L. Magney	David Magney Environmental Consulting	david@magney.org
Colleen Hiner	UC Davis	cchiner@gmail.com	Elizabeth "Izzy" Martin	TSF	izzy.martin@sierrafund.org
William B. Horn	Incline Village General Improvement District	bill_horn@ivgid.org	Robert Marty	Advanced Geoenvironmental, Inc.	marty@advgeoenv.com
Lee Hudson	GASP	none	Sharlene McCaslin	Cultural Heritage Institute	sharlene.mccaslin@sbcglobal.net
Rick Humphreys	SWRCB	rhumphreys@waterboards.ca.gov	Stephen McCord	Larry Walker Associates	sam@lwa.com
Victor Izzo	Central Valley Regional Water Board	vizzo@waterboards.ca.gov	Scott McReynolds	CA DWR	scottmc@water.ca.gov
Bill Jacobson	Social Alliance Network	bill@socialalliancenet.org	Scott Meyer	California State University, Sacramento, Office of Water Programs	scott.meyer@owp.csus.edu
Jeffrey S. Jenkins	CSU Chico	jjudub@gmail.com	Beth Rose Middleton	UC Davis, Native American Studies	bethrosy@gmail.com
Raichael Jennings		raichael@gmail.com	Kimberley Milligan	SYRCL	kimjmilligan@gmail.com
Douglas John	California Department of Conservation's Abandoned Mine Lands Unit	Douglas.John@conservation.ca.gov	Carrie Monohan	The Sierra Fund	carrie.monohan@sierrafund.org
Susan Juetten	Great Basin Resource Watch	susan@gbrw.org	Tom Mooers	Sierra Watch	tmooers@sierrawatch.org
Patricia Kaminski	Flower Essence Services	pkaminski@fesflowers.com	Elizabeth Morgan	Sierra County Environmental Health	emorgan@sierracounty.ws
Sandy Karinen	California Department of Toxic Substances Control	skarinen@dtsc.ca.gov	Patrick Morris	Central Valley Water Board	pmorris@waterboards.ca.gov
Richard Katz	Flower Essence Services	rkatz@fesflowers.com	Karen Mulvany	n/a	kmulvany@gmail.com
Douglas Keachie	Douglas Keachie, Photographer	doug2009@keachie.com	Shawn Munger	ENGEL Inc.	smunger@engeo.com

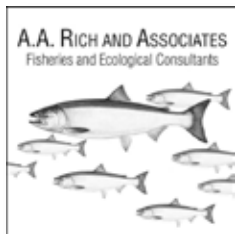
Reclaiming the Sierra Participants

Participant	Affiliation	Email	Participant	Affiliation	Email
Perry Myers	Department of Toxic Substances Control	pmyers@dtsc.ca.gov	FRANCES SPIVY-WEBER	California State Water Resources Control Board	ldouglas@waterboards.ca.gov
David Nesmith	California Environmental Water Caucus	dnesmith@ewccalifornia.org	Anthony Stewart		perocayante@gmail.com
Sherri Norris	California Indian Environmental Alliance	sherri@cieaweb.org	Rev. Sonya Sukalski	Unitarian Universalist Legislative Ministry of California	sonya@uulmca.org
Lyla Osmundsen	Amador Historical Society Member	lyla@twinwolf.net	Richard Sykes	East Bay Municipal Utility District	rsykes@ebmud.com
Jill Pahl	Placer County Environmental Health	jpahl@placer.ca.gov	Stephanie Taylor	DOC/OMR/Abandoned Mine Lands Unit	Stephanie.Taylor@conservation.ca.gov
Don Pelton	Wolf Creek Community Alliance / CLAIM	depelton@gmail.com	Tim Thomas		thomas-tim@att.net
Jane Pelton	Wolf Creek Community Alliance / CLAIM	janepelt@gmail.com	Mike Thornton	The Sierra Fund	mike.thornton@sierrafund.org
Jim Pompy	Department of Conservation, Office of Mine Reclamation	jpompy@conservation.ca.gov	Drea Em Traeumer	Em Hydrology	drea.em@gmail.com
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Gary Reedy	SYRCL	gary@syrc.org	Anne Wallace	EcoBridges Environmental	anne@ecobridges.net
Greg Reller	Burleson Consulting Inc.	gr@burlesonconsulting.com	Charles P. Watson	Advanced Geologic	cwatson@advancedgeologic.com
Alice A. Rich, Ph.D.	A.A. Rich and Associates, Fisheries and Ecological Consultants	alice@aarichandassociates.com	Nancy Weber	Nevada Irrigation District	nancyvweber@sbcglobal.net
Emily Rivenes	The Sierra Fund	emily.rivenes@sierrafund.org	Vance Weems	Ionic Water Technologies	vweems@iwtechnologies.com
Craig Rohrsen	Creekside Video Production	crohrsen@att.net	Bob Wenzlau	Terradex, Inc	bob@terradox.com
Shamus Roller	Sacramento Housing Alliance	shamus@sachousingalliance.org	Karen Wiese	Tahoe National Forest	kwildoak@aol.com
James R. Ronka	Sierra College student (Watershed Ecology program)	bantaronka@hotmail.com	Leah Wills	Plumas County Flood District	leah2u@frontiernet.net
Elizabeth Russell	Trout Unlimited	erussell@tu.org	Luci Wilson	Nevada County Land Trust	luci@nevadacountylandtrust.org
Debbie Schechter	US EPA Region 9	schechter.debbie@epa.gov	Chuck Wolfe	Save Our County	ctwolfe@Hughes.net
Bob Schneider	Tuleyome	bschneider@tuleyome.org	Phil Woodward	Regional Water Quality Control Board, Central Valley Region	pwoodward@waterboards.ca.gov
Mark Selverston	Anthropological Studies Center, Sonoma State University	legacy@jps.net	Matthew Worland	GHH Engineering, Inc.	matthew@ghheng.com
Lois Shelton	Sierra Club	sisubear@lanset.com	Kendra Zamzow, Ph.D.		kzamzow@gmail.com
Ralph Silberstein	CLAIM-GV	ralph@claim-gv.org			
Suzanne Smith	Suzanne Smith, Planning	suzanne.smith@mac.com			
Tansey Smith	Inter-Tribal Council of Nevada	tsmith@ndep.nv.gov			
Susan Snider		suesnider@yahoo.com			

Sierra Environmental Services Directory

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Business Listings A - C



A.A. Rich and Associates, Fisheries and Ecological Consultants

Alice A. Rich, Ph.D., Principal
150 Woodside Drive
San Anselmo, CA 94960
(415) 485-2937
alice@aarichandassociates.com

Business Type: Environmental Consulting, Fisheries and Ecological Consulting

Services Provided: Permitting, Engineering and Environmental Consulting, Water Quality Restoration (Habitat Restoration, Assessment, Permitting), Watershed Restoration, Monitoring, Fisheries and Ecological Consultants

Advanced GeoEnvironmental, Inc.

Robert Marty, Vice President
837 Shaw Road
Stockton, CA 95215
(800) 511-9300
rmarty@advgeoenv.com

Business Type: Environmental Consulting

Services Provided: Engineering and Environmental Consulting, Hazardous Materials, Monitoring

Remediation Specialties: Bioremediation, Heavy Metals, Water Quality, Underground Tank Assessment & Removal

Balance Hydrologics, Inc. - Auburn office

Chris White, REA, Principal Water Quality Specialist
116611 Blocker Drive, Suite 120
Auburn, CA 95603
(530) 887-9988
cwhite@balancehydro.com

Business Type: Mining (Gravel, Hard Rock) Environmental Consulting, Engineering, Watershed Sciences, Site-Specific Hydrology, Habitat Restoration, Rehabilitation

Services Provided: Permitting (CEQA & NEPA Hydrology Analysis & Studies), Engineering and Environmental Consulting, Water Quality Restoration, Habitat Restoration, Watershed Restoration, Wetlands Development, Monitoring, Channel Stability, Hydraulics, Hydrogeology, Surface/Groundwater Interaction, Water Quality and Flow Monitoring, Stream/Wetland Restoration Design

Remediation Specialties: Water Quality, Assessment and Mitigation of Existing and Proposed Land Uses: Septic Systems, Reclaimed Water, Agriculture/Livestock, Development

Balance Hydrologics, Inc - Truckee office

David Shaw, PG., ASLA, Senior Geologist/Hydrologist
10246 Donner Pass Road, Suite B3
Truckee, CA 96160
(530) 550-9776
cwhite@balancehydro.com

Business Type: Mining (Gravel, Hard Rock), Environmental Consulting, Engineering, Watershed Sciences, Site-Specific Hydrology, Habitat Restoration, Rehabilitation

Services Provided: Permitting (CEQA & NEPA Hydrology Analysis & Studies), Engineering and Environmental Consulting, Water Quality Restoration, Habitat Restoration, Watershed Restoration, Wetlands Development, Monitoring, Channel Stability, Hydraulics, Hydrogeology, Surface/Groundwater Interaction, Water Quality and Flow Monitoring, Stream/Wetland Restoration Design

Remediation Specialties: Water Quality, Assessment and Mitigation of Existing and Proposed Land Uses: Septic Systems, Reclaimed Water, Agriculture/Livestock, Development

California Native Plant Society, Redbud Chapter

Karen Callahan, Plant Science Chairperson
13896 Jesse Ln.
Grass Valley, CA 95945
(530) 272-5532
penstemon@nccn.com

Business Type: Environmental Consulting

Services Provided: Botanical Surveys, Rare Plant Surveys, Vegetation Assessment

Remediation Specialties: Revegetation & Restoration for SMARA Compliance for Mines

Carl Wishner Biologist

Carl Wishner, President
PO Box 665
Chicago Park, CA 95712-0665
(818) 961-7558
cbwishner@sbcglobal.net

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Business Listings C - D

Business Type: Environmental Consulting, Training and Continuing Education

Services Provided: Engineering and Environmental Consulting, Habitat Restoration, Assessment, Wetlands Development, Wetlands Development, Botany, Zoology, Bryology, Mycology, CEQA, NEPA

Remediation Specialties: Bioremediation, Endangered Species Recovery, Mitigation

CFA Inc.

Daniel Kovach, ASLA, Landscape Architect
1150 Corporate Blvd.
Reno, NV 89502
(775) 856-1150
dkovach@cfareno.com

Business Type: Landscape Architecture, Civil Engineering, Survey, Planning, Construction Inspection

Services Provided: Community Outreach and Education, Engineering and Environmental Consulting, Water Quality Restoration, Habitat Restoration

Chico Environmental Science & Planning

John Lane, Principal
333 Main St., Suite 260
Chico, CA 95928
(530) 899-2900
jlane@chicoenvironmental.com

Business Type: Engineering

Services Provided: Legal Services, Permitting, Habitat Restoration, Underground Tank Assessment and Removal, Assessment, Remediation, Equipment Operation, Watershed Restoration, Monitoring, Other Services

Remediation Specialties: Bioremediation, Chromium, Asbestos, Mercury, Heavy Metals, Zinc, Lead, Naturally Occurring Asbestos (NOA), Underground Tank Assessment & Removal, Solubility

Conestoga-Rovers & Associates, Inc.

Bruce Eppler, PG, Environmental Manager
10969 Trade Center Drive, Suite 107
Rancho Cordova, CA 95670

(916) 889-8901

beppler@craworld.com

Business Type: Environmental Consulting, Engineering

Services Provided: Permitting, Engineering and Environmental Consulting, Water Quality Restoration, Habitat Restoration, Underground Tank Assessment and Removal, Assessment, Wetlands Development, Remediation, Watershed Restoration, Hazardous Materials, Monitoring

Remediation Specialties: Bioremediation, Chromium, Mercury, Heavy Metals, Nickel, Cadmium, Zinc, Lead, Acid Mine Drainage, Water Quality, Underground Tank Assessment & Removal, Solubility, Re-mining, Arsenic

David Magney Environmental Consulting

David L. Magney, President
13806 Highland Drive
Grass Valley, CA 95945
(530) 273-1799
david@magney.org

Business Type: Environmental Consulting, Arboriculture

Services Provided: Permitting (CEQA, NEPA, 404, 1600), Engineering and Environmental Consulting, Water Quality Restoration, Habitat Restoration, Assessment, Wetlands Development, Permitting, Watershed Restoration, Wetlands Development, Monitoring, Arboriculture (ISA Certified Arborist #WE-7674A)

Douglas Keachie, Photographer

Douglas Keachie, Owner
27800 Sweetland Road
North San Juan, CA 95960
(530) 277-3456
Doug.2009@Keachie.com

Business Type: Photography: Aerials, Near Earth Aerials, and Underground

Services Provided: Photographic Documentation, Aerial Photography a Specialty

Remediation Specialties: Before-and-After Documentation

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Business Listings E - H

EcoBridges Environmental

Anne Wallace, President/Certified Wildlife Biologist
Grass Valley, CA 95945
(530) 272-3462
anne@ecobridges.net

Business Type: Environmental Consulting

Services Provided: Permitting (CEQA/NEPA Compliance, Endangered Species Act/CA Endangered Species Act Compliance and Informal/Formal Consultation; CDFG 1601/3; Corps 404; RWQCB 401), Rare, Threatened, and Endangered Plants and Wildlife (Animals, Fishes, Invertebrates); Surveys (Including Protocol Surveys) and Habitat Assessment; Impact Assessment, Avoidance, and Minimization; Conservation Development; Wetland Delineation; Environmental Permitting; Report Writing/Technical Editing; Data Management; Project Management

Em Hydrology, LLC

Drea Em Traeumer, Owner
1165 Hunter Lake Dr.
Reno, NV 89509
(775) 750-0472
drea.em@gmail.com

Business Type: Environmental Consulting, Engineering

Services Provided: Engineering and Environmental Consulting, Water Quality Restoration, WEPP Run and Erosion Prediction Modeling to Quantify Sediment and Inorganic Mercury Loads/Load Reductions at Project- and Watershed-Scales

ENGEO Incorporated

Shawn Munger, Principal
2213 Plaza Drive
Rocklin, CA 95765
(916) 580-6535
smunger@engeo.com

Business Type: Environmental Consulting, Engineering, Geotechnical Engineering

Services Provided: Engineering and Environmental Consulting, Underground Tank Assessment and Removal, Remediation, Hazardous Materials, Monitoring
Remediation Specialties: Bioremediation, Chromium,

Mercury, Heavy Metals, Nickel, Cadmium, Zinc, Lead, Acid Mine Drainage, Naturally Occurring Asbestos (NOA), Underground Tank Assessment & Removal, Solubility



Geocon Consultants, Inc.

Jim Brake, PG, Manager, Sacramento Operations
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
(916) 852-9118
brake@geoconinc.com

Business Type: Laboratory, Environmental Consulting, Engineering, Geotechnical Engineering, Environmental Hazardous Waste Contracting

Services Provided: Permitting, Community Outreach and Education, Engineering and Environmental Consulting, Underground Tank Assessment and Removal, Assessment, Remediation, Hazardous Materials, Monitoring

Remediation Specialties: Bioremediation, Chromium, Mercury, Heavy Metals, Nickel, Cadmium, Zinc, Arsenic, Lead, Acid Mine Drainage, Naturally Occurring Asbestos (NOA), Water Quality, Underground Tank Assessment & Removal



Holdrege & Kull - Consulting Engineers and Geologists

Mr. Jason Muir, PE, GE, Principal
792 Searls Avenue
Nevada City, CA 95959
(530) 478-1305
JMuir@HandK.net

Business Type: Engineering

Services Provided: Permitting, Engineering and Environmental Consulting, Habitat Restoration, Underground Tank Assessment and Removal, Assessment, Remediation, Financial Services, Equipment Operation, Watershed Restoration, Real Estate Transactions, Monitoring, Other Services

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Business Listings J - M

Remediation Specialties: Bioremediation, Chromium, Asbestos, Mercury, Heavy Metals, Cadmium, Zinc, Lead, Naturally Occurring Asbestos (NOA), Water Quality, Underground Tank Assessment & Removal, Solubility

JBR Environmental Consultants, Inc.

Matthew Setty, Project Manager
595 Double Eagle Court, Suite 2000
Reno, NV 89521
(775) 747-5777
msetty@jbrenv.com

Business Type: Environmental Consulting

Services Provided: Permitting, Engineering and Environmental Consulting, Water Quality Restoration Habitat Restoration, Underground Tank Assessment and Removal, Assessment, Wetlands Development, Permitting, Remediation, Watershed Restoration, Wetlands Development, Monitoring

Remediation Specialties: Water Quality

JD Smith Consulting

Dave Smith, Senior Geologist
6440 Ranch Lake Rd
El Dorado, CA 95623
(530) 295-1357
dave@jdsmithconsulting.com

Business Type: Environmental Consulting

Services Provided: Engineering and Environmental Consulting, Underground Tank Assessment and Removal, Assessment, Permitting, Remediation, Hazardous Materials, Monitoring, Site Investigation, Feasibility Study, Active and Passive Remediation for Soil and Groundwater

Remediation Specialties: Bioremediation, Asbestos, Heavy Metals, Acid Mine Drainage, Naturally Occurring Asbestos (NOA), Water Quality, Underground Tank Assessment and Removal, Solubility, Petroleum, Volatile and Semi-Volatile Organics, Pesticides, Herbicides, Nitrates



Larry Walker Associates

Stephen McCord, Senior Engineer
707 4th St., Suite 200
Davis, CA 95616
(530) 753-6400
sam@lwa.com

Business Type: Engineering

Services Provided: Permitting Remediation, Equipment Operation, Real Estate Transaction

Remediation Specialties: Solubility

Law Offices of Daniel F. Reidy, a Professional Corp.

Daniel F. Reidy, Attorney
270 Blair Mine Road - P.O. Box 760 (Mailing Address)
Angels Camp, CA 95222
209 736-0712
dfreidy@pacbell.net

Business Type: Legal

Services Provided: Legal Services, Permitting Assistance with the Re-development of Former Mining Sites and Site Cleanups

Meyers, Nave, Riback, Silver & Wilson

Leah S. Goldberg, Attorney
555 12th St., Suite 1500
Oakland, CA 94607
(510) 808-2000
lgoldberg@meyersnave.com

Business Type: Legal

Services Provided: Legal Services, Permitting Habitat Restoration, Underground Tank Assessment and Removal, Wetlands Development, Permitting, Hazardous Materials, Real Estate Transaction

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Business Listings M - S

Mighty Wind Environmental Consultants

Carl Jeffries, CEO
11481 Glen Road
Truckee, CA 96161
(530) 550-8087
pcjeffries@gmail.com

Business Type: Environmental Consulting, Health, Training and Continuing Education, Environmental Certification
Services Provided: Community Outreach and Education, Engineering and Environmental Consulting, Water Quality Restoration Habitat Restoration, Underground Tank Assessment and Removal, Wetlands Development, Watershed Restoration, Hazardous Materials, Wetlands Development, Range Management and Forestry Training
Remediation Specialties: Bioremediation, Heavy Metals, Water Quality, Underground Tank Assessment & Removal, Solubility, Inspector & Operator Compliance Courses

Nevada City Engineering, Inc.

Andrew R. Cassano, CEO
505-B Coyote Street
Nevada City, CA 95959
(530) 265-6911
andy@nevadacityengineering.com

Business Type: Environmental Consulting, Engineering, Environmental Planning and Land Use Entitlement with Related Civil Engineering
Services Provided: Permitting (CEQA, NEPA, Reclamation), Engineering and Environmental Consulting, Permitting, Monitoring
Remediation Specialties: Environmental Review, Planning Permits, Civil Engineering, Land Surveying

Plumas Geo-Hydrology

Burkhard Bohm, Hydrogeologist
PO Box 1922
Portola, CA 96122
(530) 836-2208
water@gotsky.com

SHUTE, MIHALY
& WEINBERGER LLP

Shute, Mihale, & Weinberger

Ellison Folk, Partner
396 Hayes St.
San Francisco, CA 94102
(415) 552-7272
folk@smwlaw.com

Business Type: Environmental Law, Geotechnical Engineering
Services Provided: Legal Services

Site Consulting, Inc.

Ruth Willson, Senior Biologist
3460 Angel Lane
Placerville, CA 95667
(530) 622-7014
rwillson@siteconsultinginc.com

Business Type: Environmental Consulting, Engineering
Services Provided: Engineering and Environmental Consulting

SMARA Consulting

(A Subsidiary of Mountain Valley Properties, Inc.)

John Reed, President
P. O. Box 338
Oakhurst, CA 93644
(559) 683-7474
jreed@ccim.net

Business Type: Current Mining Metals, Gravel, All Other Mining Finance, Environmental Consulting, Realty, Reclamation Plan Preparation, Interim Management Plan Preparation, Managing the Process

Services Provided: Permitting SMARA Requirements, Financial Services, Real Estate Transaction, Navigating the Process, Minimizing Costs, Reducing Red Tape, Money Saving Direction and Advice

Remediation Specialties: Overall Coordination of Remediation Efforts

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Business Listings S - V

Social Alliance Network

Bill Jacobson, Community Organizer
17069 Vintage Drive
Grass Valley, CA 95949
(530) 268 7367
bill@billjacobson.com

Business Type: Calling Back Wild Salmon Community Builder

Services Provided: Community Outreach and Education,
Native American Water Resource Advocacy

Remediation Specialties: Native American Heritage Rights



Solution Mining, Inc.

Christopher Gillis, President
75 East Franklin Street
Shavertown, PA 18708
(570) 574-0022
ecotech232@comcast.net

Business Type: Acid Mine Drainage Treatment System
Research and Development, Acid Mine Drainage, Engineering,
Geotechnical Engineering

Services Provided: Assessment, Wetlands Development,
Equipment Operation

Remediation Specialties: Asbestos

SWALE Inc.

Kateri Harrison, Senior Planner & Ecologist
111 Bank Street #202
Grass Valley, CA 95945
(530) 559-7823
kateri@swaleconsulting.com

Business Type: Environmental Consulting, Environmental
Consulting, Strategic Planning, Grant Writing

Services Provided: Permitting Community Outreach
and Education, Engineering and Environmental Consulting,
Water Quality Restoration Habitat Restoration, Wetlands
Development, Watershed Restoration, Wetlands Development,
Monitoring

The SHIBATANI GROUP, Inc.

Robert Shibatani, Managing Partner & Principal Hydrologist
U.S. Bank Plaza Tower, 980 Ninth Street, 16th Floor
Sacramento, CA 95814
(916) 719-7612
robert@theshibatanigroup.com

Business Type: Environmental Consulting, Training and
Continuing Education

Services Provided: Permitting (NEPA, CEQA, ESA, CWA),
Engineering and Environmental Consulting, Watershed
Restoration, Water Supply, Water Rights, Groundwater,
Snowmelt Forecasting, Flood Control, Climate Change

Veridico Group, Inc.

Dr. Vida G. Wright, P.E., Principal
3300 Douglas Blvd., Suite 465
Roseville, CA 95661
(916) 865-4170
vida.wright@veridicogroup.com

Business Type: Environmental Consulting, Engineering, Water
and Environmental Resources

Services Provided: Permitting, Engineering and
Environmental Consulting, Water Quality Restoration,
Remediation, Watershed Restoration, Wetlands Development

Remediation Specialties: Acid Mine Drainage, Water
Quality

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Nonprofit Listings A - G

American River Conservancy

Elena DeLacy, Conservation Project Coordinator
P.O. Box 562 - 348 Highway 49
Coloma, CA 95613
(530) 295-2190
elena@arconservancy.org

Nonprofit Type: Conservation

Services Provided: Community Outreach and Education, Habitat Restoration, Watershed Restoration, Land Trust

California Association of Resource Conservation Districts

Jessica Avina, Watershed Coordinator
801 K Street, Suite 1415
Sacramento, CA 95814
(916) 457-7904
jessica-avina@carcd.org

Nonprofit Type: Cosumnes River Watershed

Services Provided: Community Outreach and Education, Watershed Restoration, General Landowner Assistance & Information Services



California Conference of Directors of Environmental Health

Justin Malan, Executive Director
1029 K Street, Suite 24
Sacramento, CA 95959
(916) 448-1015
justin@ccdeh.com

Nonprofit Type: Environmental Consulting, Training, and Continuing Education,

Services Provided: Lobbying for Environmental Health, Consulting and Training



CA Indian Environmental Alliance

Sherri Norris, Executive Director
PO Box 2128
Berkeley, CA 94702
(510) 848-2043
sherri@cieaweb.org

Nonprofit Type: Metals, Health, Training and Continuing Education, Legacy Mining

Services Provided: Community Outreach and Education, Technical Assistance, Strategic Development, Tribal Capacity Building, Coalition Building



Center for Creative Land Recycling

Ignacio Dayrit, Programs Director
333 Pine Street, Suite 300
San Francisco, CA 94104
(415) 398-1080
ignacio.dayrit@cclr.org

Services Provided: Community Outreach and Education, Brownfield Technical Assistance

Center for Public Environmental Oversight

Lenny Siegel, Executive Director
278-A Hope Street
Mountain View, CA 94041
(650) 961-8981
LSiegel@cpeo.org

Nonprofit Type: Environmental Advocacy and Education

Services Provided: Community Outreach and Education

EcoSpirit

Roger Wharton, EcoSpirit
1404 Arnold Ave
San Jose, CA 95110
(408) 451-9310
roger@ecospirit.org

Nonprofit Type: Spiritual Ecology

Services Provided: Spiritual Ecological Education Programs for Christians and Churches

Great Basin Resource Watch

John Hadder, Director
85 Keystone Ste. K
Reno, NV 89503
(775) 348-1986
john@gbwr.org

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Nonprofit Listings G - S

Nonprofit Type: Current Mining Metals, General Extraction, Resource Extraction and Industrial Development

Services Provided: Community Outreach and Education, Community Technical Support and Organizing

Green Drinks

Kateri Harrison, Lori Lachman, and Elizabeth Dunn
111 Bank Street, #202
Grass Valley, CA 95945
(530) 559-7823
www.greendrinks.org

Nonprofit Type: Social and Environmental Networking

Services Provided: Green Drinks Welcomes All to a Monthly Meeting with Beverages to Discuss Green Things

Ground Truth Trekking

Bretwood Higman, Director
P.O. Box
Seldovia, AK 99663
(907) 399-5530
hig314@gmail.com

Nonprofit Type: Environmental Consulting

Services Provided: Scientific/Technical Review and Support



Rose Foundation for Communities and the Environment

Tim Little, Executive Director
6008 College Ave., #10
Oakland, CA 94618
(510) 658-0702
tlittle@rosefdn.org

Nonprofit Type: Foundation

Services Provided: Award Grants in Support of Grassroots Environmental Activism and Watershed Protection, Community Outreach and Education, Wetlands Development



Sierra Institute for Community & Environment

Jonathan P. Kusel, Executive Director
P. O. Box 11 / 4438 Main Street
Taylorsville, CA 95983
(530) 284-1022
JKusel@Sierrainstitute.us

Nonprofit Type: Engineering

Services Provided: Financial Services, Hazardous Materials

Sierra Valley Resource Conservation District

Mr. Gale Dupree, President
P O Box 50
Vinton, CA 96135
(530) 993-6051
sierravalleyrcd@gmail.com

Nonprofit Type: Environmental Consulting, Wildlife Conservation Projects, Free Consulting, GIS Mapping

Services Provided: Community Outreach and Education, Water Quality Restoration, Habitat Restoration, Wetlands Development, Watershed Restoration, Monitoring, Wildlife Conservation Projects, Free Consulting, GIS Mapping
Remediation Specialties: Water Quality



South Yuba River Citizens League (SYRCL)

Lori Van Laaner, Administrative Assistant
216 Main St
Nevada City, CA 95959
(530) 265-5961
lori@syrcl.org

Nonprofit Type: Yuba River Watershed

Services Provided: Community Outreach and Education, Habitat Restoration, Assessment, Watershed Restoration, Monitoring

Sierra Environmental Services Directory

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Nonprofit Listings S - W and Agency Listings

Synergia Learning Ventures

Tom Weistar, Executive Director
18441 Rainbow's End Road
Nevada City, CA 95959
(530) 265-5490
tweistar@synergia.us

Nonprofit Type: Training and Continuing Education
Services Provided: Community Outreach and Education, Documentation and Media



The Sierra Fund

Mike Thornton, Mining Project Community Organizer
432 Broad Street
Nevada City, CA 95959
(530) 265-8454 x10
mike.thornton@sierrafund.org

Nonprofit Type: Finance, Environmental Consulting, Legal, Health,
Services Provided: Fundraising, Community Outreach and Education, Philanthropic Services, Watershed Restoration



Wolf Creek Community Alliance

Jonathan Keehn, President
11741 Alta Vista Avenue
Grass Valley, CA 95945
(530) 272-2347
jbkeehn@sierraemail.com

Nonprofit Type: Watershed Protection and Education
Services Provided: Watershed Restoration, Monitoring

CA Department of Public Health, Div. of Drinking Water & Environmental Management

Robin Hook, Environmental Program Manager
1616 Capitol Avenue, P.O. Box 997377, MS 7400
Sacramento, CA 95899-7377
(916) 449-5600
Robin.Hook@cdph.ca.gov

Agency Type: Health

Services Provided: Legal Services, Permitting, Financial Services, Recreational Health and Drinking Water Regulatory Activities



Sierra Nevada Conservancy

Julie Griffith-Flatter, Program Analyst
11521 Blocker Drive, Suite 205
Auburn, CA 95603
(530) 823-4682
jgriffith@sierranevada.ca.gov

Agency Type: Funding, Non-Regulatory, Sierra Nevada Natural Resources

Services Provided: Wetlands Development, Financial Services

Western Shasta Resource Conservation District

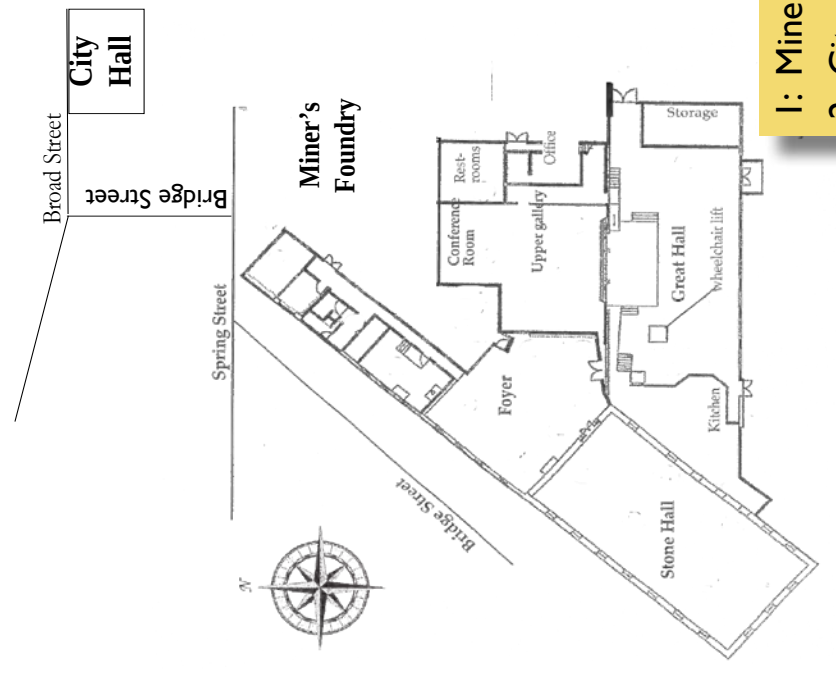
Mary Mitchell, District Manager
6270 Parallel Road
Anderson, CA 96007
(530) 365-7332 x 202
mary@westernshastarc.org

Services Provided: Permitting (CEQA, NEPA, DFG 1600, Nation Wide 1400, SWPP, Encroachment and More), Community Outreach and Education, Water Quality Restoration (Habitat Restoration, Assessment, Wetlands Development, Permitting), Equipment Operation, Watershed Restoration, Wetlands Development, Monitoring, GIS, Erosion Control, Fisheries Restoration, Fuels Reduction, Fish Screens, Tailwater Ponds, Conservation Easements, Revegetation, Spawning Gravel Injections, Wildfire Emergency Services, Grazing Lease Management, Water Use Efficiency Projects, Invasive Weed Control

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2: City Hall
3: Stonehouse Restaurant



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Veridico Group, Inc., Wolf Creek Community Alliance



The Sierra Fund
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www.reclaimingthesierra.org