

ACKNOWLEDGEMENTS

The report is the product of a collaborative effort that included individuals representing land management agencies, research institutions, regulatory agencies, and private consultants. The Tahoe Regional Planning Agency (TRPA) would like to express sincere gratitude to the numerous individuals who assisted with the production of the 2011 Threshold Evaluation through participation, formally or informally, as authors, technical advisors and/or as reviewers. In addition, and for the first time, the evaluation was independently peer-reviewed—constructive input received through this review improved the quality of the report substantially. The contribution of many made the production of this report possible. TRPA would like to thank the following.

Peer Review Panel

- Maureen McCarthy, PhD, Peer-Review Coordinator, Executive Director, Tahoe Science Consortium
- James Mahoney, PhD, Peer Review Panel Chair, Retired, Former Assistant Secretary of Commerce and Deputy Administrator for the National Oceanic and Atmospheric Administration
- Richard Axler, PhD, Senior Research Associate, Natural Resources Research Institute, University of Minnesota, Duluth
- Dan Canfield, Jr., PhD, Professor (limnology), Fisheries and Aquatic Sciences Program, School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences (IFAS), University of Florida
- Gary Hunt, Vice President/Principal Air Quality Scientist, TRC Solutions
- Ed Krumpke, PhD, Professor of Wilderness Management, Department of Conservation Social Sciences, University of Idaho
- Robert Lilieholm, PhD, E.L. Giddings Associate Professor of Forest Policy, Department of Ecology and Environmental Science, University of Maine
- Carol Wessman, PhD, Professor, Ecology and Evolutionary Biology, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder

Report Contributors

Editors

- Zach Hymanson, Owner, Alpine Solutions
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Ed Gurowitz, Chief Operating Officer, Tahoe Regional Planning Agency
- Julie Regan, APR, Chief, External Affairs

Graphic Designer, and Editor

- Sarah Underhill, Communications Associate, Tahoe Regional Planning Agency

Copy Editor

- Mollie Hurt, Adjunct Biology Instructor and Faculty of the English Tutoring and Learning Center, Lake Tahoe Community College
- Beth Vollmer, Research Assistant, Tahoe Regional Planning Agency

Geographic Information Systems

- Leif Larson, GIS Specialist, Associate Planner, Tahoe Regional Planning Agency
- Kurt Teuber, GIS Manager, U.S. Forest Service – Lake Tahoe Basin Management Unit

- Amy Fish, GIS Manager, Tahoe Regional Planning Agency

Chapter 2 - Methodology

- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Chad Praul, Partner, Environmental Incentives, LLC
- Zach Hymanson, Owner, Alpine Solutions

Chapter 3 - Air Quality

- Mark C. Green, Ph.D., Research Professor, Division of Atmospheric Sciences, Desert Research Institute
- Jolaine Johnson, Consulting Air Quality Expert
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Keith Norberg, Senior Transportation Planner, Tahoe Regional Planning Agency
- Dario Gotchet, Air and Noise Monitoring Technician, Tahoe Regional Planning Agency
- Eoin Doherty, Associate, Environmental Incentives, LLC
- Chad Praul, Partner, Environmental Incentives, LLC

Chapter 4 - Water Quality

- John Reuter, Research Professor, Associate Director, University of California, Davis – Tahoe Environmental Research Center
- Nancy Alvarez, Hydrologist, US Geological Survey – Nevada Water Science Center
- Zach Hymanson, Owner, Alpine Solutions
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency

Chapter 5 - Soil Conservation

- Janny Choy, Resource Integration Specialist, Tahoe Regional Planning Agency
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- William (“Woody”) Loftis, Soil Scientist, USDA Natural Resources Conservation Service
- Jarlath O’Neil-Dunne, Geospatial Analyst, Spatial Analysis Laboratory, University of Vermont
- Paul Nielsen, Natural Resources Planning Manager, Tahoe Regional Planning Agency
- David Saah, PhD, Managing Principal, Spatial Informatics Group, LLC
- Craig Oehrli, Hydrologist, U.S. Forest Service – Lake Tahoe Basin Management Unit

Chapter 6 - Vegetation Preservation

- Alison Stanton, Consulting Botanist
- Shana Gross, Ecologist, U.S. Forest Service – Lake Tahoe Basin Management Unit
- Hugh Safford, Regional Vegetation Ecologist, U.S. Forest Service – Region 5
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Megan Scheeline, Registered Professional Forester, Tahoe Regional Planning Agency
- Mike Vollmer, Forest Management Program Manager, Registered Professional Forester, Tahoe Regional Planning Agency
- Adam Lewandowski, Resource Integration Specialist, Tahoe Regional Planning Agency
- David Fournier, Assistant Vegetation Staff Officer, U.S. Forest Service – Lake Tahoe Basin Management Unit

Chapter 7 – Fisheries

- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Michelle Murdock, Bioassessment Technician, Tahoe Regional Planning Agency

- Ted Thayer, Aquatic Invasive Species Program Coordinator, Tahoe Regional Planning Agency
- Patrick Stone, Senior Wildlife and Fisheries Biologist, Tahoe Regional Planning Agency

Chapter 8 – Wildlife

- Adam Lewandowski, Resource Integration Specialist, Tahoe Regional Planning Agency
- Michael Morrison, Professor and Caesar Kleberg Chair in Wildlife Ecology and Conservation, Texas A & M University
- Shay Zanetti, Wildlife Biologist, U.S. Forest Service – Lake Tahoe Basin Management Unit
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Ted Thayer, Aquatic Invasive Species Program Coordinator, Tahoe Regional Planning Agency

Chapter 9 – Scenic Resources

- Tom Packard, Consulting Scenic Resources Expert, Tom Packard and Associates
- John Hitchcock, Design and Land Use Program Manager, Regional Plan Update Team, Tahoe Regional Planning Agency
- Sheila Brady, Consulting Scenic Resources Expert
- Bob King, Landscape Architect, U.S. Forest Service – Lake Tahoe Basin Management Unit

Chapter 10 – Noise

- Dario Gotchet, Air and Noise Monitoring Technician, Tahoe Regional Planning Agency
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency

Chapter 11 – Recreation

- Adam Lewandowski, Resource Integration Specialist, Tahoe Regional Planning Agency
- Peter Eichar, Environmental Planner, Recreation and Public Access Program, California Tahoe Conservancy
- Sarah Henningsen, Environmental Planner, Ascent Environmental, Inc.
- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency

Chapter 12 – Implementation and Effectiveness

- Shane Romsos, Acting Measurement Department Manager, Tahoe Regional Planning Agency
- Lyn Barnett, AICP, Principal, Wells Barnett Associates, LLC
- Robert Gregg, Lake Tahoe Coordinator, Nevada Division of State Lands
- Kevin Prior, Controller, Tahoe Regional Planning Agency
- Ted Thayer, Aquatic Invasive Species Program Coordinator, Tahoe Regional Planning Agency
- Shay Navarro, CPESC, Resource Integration Specialist, Tahoe Regional Planning Agency
- Ethan Casaday, Environmental Compliance Inspector, Tahoe Regional Planning Agency
- Julie Kolowith, Environmental Compliance Inspector, Tahoe Regional Planning Agency
- Steve Sweet, Environmental Compliance Team Leader, Tahoe Regional Planning Agency
- Karin Edwards, EIP Coordinator, California Tahoe Conservancy and Tahoe Regional Planning Agency
- John Hitchcock, Design and Land Use Program Manager, Regional Plan Update Team, Tahoe Regional Planning Agency
- Jeanne McNamara, Implementation Department Director, Tahoe Regional Planning Agency

TRPA Senior Staff

- Joanne Marchetta, Executive Director
- Julie Regan, APR, Chief, External Affairs
- Ed Gurowitz, PhD, Chief Operating Officer
- John Hester, Planning Director
- Jeanne McNamara, Implementation Department Director
- John Marshall, Staff Counsel
- Chris Keillor, Finance Director

TRPA Governing Board

- Norma Santiago, Chair, El Dorado County Supervisor
- Shelly Aldean, Vice Chair, Carson City Board of Supervisors
- Mara Bresnick, California Assembly Speaker's Appointee
- Ross Miller, Nevada Secretary of State
- Larry Sevison, Placer County Supervisor Representative
- Nancy McDermid, Douglas County Commissioner
- Steve Robinson, Nevada Dept. of Conservation & Natural Resources Representative
- John Breternitz, Washoe County Commissioner
- E. Clement Shute, Jr., California Governor's Appointee
- Casey Beyer, California Governor's Appointee
- Robin Reedy, Nevada Governor's Appointee
- Timothy Cashman, Nevada At-Large Member
- Byron Sher, California Senate Rules Committee Appointee
- Claire Fortier, City of South Lake Tahoe Council Member
- Tim Carlson, Presidential Appointee

TRPA Advisory Planning Commission

- Charlie Donohue, Chair, Department of Conservation and Natural Resources Representative
- Peter Maurer, Vice Chair, El Dorado Principal Planner
- William ("Woody") Loftis, Natural Resources Conservation Service Representative
- Steve Buelna, Placer County Planning Representative
- Suzanne Garcia, Washoe Tribe
- David Gaskin, Nevada Division of Environmental Protection Representative
- Mary Huggins, Tahoe Basin Fire Chief's Representative
- Robert Jepsen, Carson City Lay Member
- Chuck Greene, Washoe County Lay Member
- Eva Krause, Washoe County Planning Director Representative
- Steve Teshara, Tahoe Transportation District Representative
- Mike LeFevre, U.S. Forest Service Representative
- Brandy McMahon, Douglas County Planning Representative
- Jennifer Merchant, Placer County Lay Member
- Lee Plemel, Carson City Planning Director Representative
- Mike Riley, Douglas County Lay Member
- Hilary Roverud, City of South Lake Tahoe Representative
- Robert Larsen, Lahontan Regional Water Quality Control Board Representative
- Vacant, El Dorado County Lay Member

- John Upton, City of South Lake Tahoe Lay Member
- Open, California Air Resources Board, Office of the Ombudsman

Agency Contributors

Federal

- U.S. Forest Service – Lake Tahoe Basin Management Unit and Region 5
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service
- Natural Resources Conservation Service
- U. S. Geological Survey

Nevada

- Nevada Division of State Lands
- Nevada Department of Wildlife
- Nevada Division of Environmental Protection
- Nevada Tahoe Resource Team
- Nevada State Parks
- Nevada Department of Transportation
- Nevada Division of Forestry

California

- California Air Resources Board
- California State Parks
- California Water Quality Control Board - Lahontan Region
- California State Lands
- California Tahoe Conservancy
- California Department of Fish and Game
- California Department of Transportation (CalTrans)
- California Department of Forestry

County

- Washoe County, Health District, Air Quality Management Division
- Placer County Air Pollution Control District
- County of El Dorado, Air Quality Management District

Research Institution Contributors

- Tahoe Science Consortium
- University of California, Davis
- University of Nevada, Reno
- U.S. Geological Survey
- Desert Research Institute
- U.S. Forest Service - Pacific Southwest Research Station
- University of Vermont
- Texas A & M University
- Humboldt State University
- University of Idaho
- University of Florida

- University of Colorado, Boulder
- University of Maine
- University of Minnesota, Duluth

Private Consultant Contributors

- Air Resources Specialists, Inc.
- Alpine Solutions
- Ascent Environmental, Inc.
- Environmental Incentives, LLC
- Spatial Informatics Group, LLC
- Tom Packard and Associates
- Wells Barnett Associates, LLC