

RECOMMENDED COMPOSITION OF DISCIPLINES ON PANEL

As noted previously, there are numerous scientific issues and questions that will have to be address as part of the Willard Spur program. The optimal Science Panel candidate can address multiple disciplines in the context of nutrients and similar wetlands systems as found on Great Salt Lake. The following six disciplines represent broad categories that DWQ has suggested with input from the Steering Committee that might best address the critical issues and make up the Science Panel. Additional experts may be identified and recommended by the Science Panel at a later time if they are needed.

- EPA scientist – national expertise with wetlands/nutrient water quality standards
- Wetlands Ecologist – emphasis on biogeochemistry (water/sediment), local GSL wetlands experience, nutrients
- Wetlands Ecologist – emphasis on plants/phragmites, local GSL wetlands experience, nutrients
- Wildlife biologist
- Bioassessment methods expert
- Hydrology/water quality modeling expert

NOMINATIONS MADE TO DATE

The individuals on the following pages have been nominated (through February 7, 2011) by members of the Steering Committee for consideration for the Science Panel. CVs are available as a separate attachment or a website URL with CV/biographical information is included below.



Name	Nominated by	Affiliation	Key Discipline	Specialty	Notes
Wetlands Ecologist					
Bonnie Baxter, PhD	Ryan Nesbitt, Division of Forestry, Fire & State Lands	Westminster College, Great Salt Lake Institute	Wetlands ecology/microbiology	Director of Great Salt Lake Institute, photo-biology of salt tolerant bacteria	Currently conducting research on bacteria in North Arm of GSL http://people.westminstercollege.edu/faculty/bbaxter/
Edward H. Dettman, PhD	Karen Hamilton, USEPA	ORD, USEPA Atlantic Division	Estuarine Ecologist – eutrophication	Eutrophication in estuaries and coastal waters, Served on technical advisory groups to establish national guidance for nutrient criteria in estuaries	
Karin Kettinring, PhD	Bob Barrett, US Fish & Wildlife Service	Utah State University, Department of Watershed Sciences	Wetlands Ecologist - plants	Wetlands ecologist, ecology of phragmites, experience on GSL and Bear River National Wildlife Refuge	Ongoing work for USFWS http://www.cnr.usu.edu/htm/facstaff/memberID=1840
Theron Miller, PhD	Dal Wayment, South Davis Sewer District	Jordan River/Farmington Bay Water Quality Council	Wetlands Ecologist – physical, chemical, biological processes	Led research into impacts of nutrients on GSL wetlands since 2004, Development of metrics that identify threshold concentrations of nutrients linked to adverse effects	Jordan River/Farmington Bay Water Quality Council is funded by POTWs
Benjamin R. Parkhurst, PhD	Dal Wayment, South Davis Sewer District	Consultant, HAF, Inc.	Wetlands ecologist/toxicologist	Ecological risk assessments of nutrients, toxic chemicals, metals, sediment on aquatic life, Development of methods to derive nutrient criteria for WERF and FWQC	Worked with WERF and Salt Lake City DPU to develop risk-based approaches for water quality regulation on Jordan River, will require compensation
Joan S. (Thullen) Daniels	Bob Barrett, US Fish & Wildlife Service	U.S. Geological Survey	Wetlands ecologist/botanist	Wetlands processes and removal of nutrients/trace elements, evaluation of ecosystem conditions/interactions in constructed wetlands	Confirmed interest in participating, verifying ability to make recommendations and obtaining CV



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Wildlife Biologist					
John Cavitt, PhD	Bob Barrett, US Fish & Wildlife Service	Weber State University, Department of Zoology	Wildlife Biologist	Birds of Great Salt Lake, experience on GSL and Bear River National Wildlife Refuge	Ongoing work for USFWS, Division of Wildlife Resources, and Jordan River Farmington Bay Water Quality Council http://faculty.weber.edu/jcavitt/about.htm
Chris Cline	Pam Kramer, Division of Wildlife Resources	U.S. Fish & Wildlife Service, Ecological Services	Wildlife Biologist	Great Salt Lake birds, habitat, and contaminants	Have not been able to verify whether she can commit to serving on the Science Panel Ongoing work for USFWS on Great Salt Lake
Nathan Darnall	Dick West, West Side Associated Duck Clubs	U.S. Fish & Wildlife Service, Migratory Bird Coordinator	Wildlife Biologist	Great Salt Lake birds, habitat, and contaminants	Have not been able to verify whether he can commit to serving on the Science Panel Ongoing work for USFWS on Great Salt Lake
John Luft	Pam Kramer, Division of Wildlife Resources	Utah Division of Wildlife Resources	Wildlife Biologist	Program Manager of UDNR's Great Salt Lake Ecosystem Project, oversight of research into artemia, bird use, and contaminants in GSL	Ongoing work for Division of Forestry, Fire & State Lands and Division of Wildlife Resources
Bioassessment Methods					
Charles P. Hawkins, PhD	Walt Baker, Division of Water Quality	Utah State University, Department of Watershed Sciences	Aquatic Ecology/Statistics	Extensive publications on bioassessment methods, Served on numerous EPA and state advisory panels for development/application of indicators/bioassessment methods for freshwater systems	Will require compensation http://www.cnr.usu.edu/wats/htm/directory-plugin/memberID=792
Ryan S. King, PhD	Walt Baker, Division of Water Quality	Baylor University, Department of Biology	Aquatic Ecology	Focus on the development of ecological indicators and thresholds using aquatic biota, implications of nutrient imbalances on aquatic ecosystems	Have not been able to verify whether he can commit to serving on the Science Panel http://www.baylor.edu/aquaticlab/



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Hydrology/Water Quality Modeling					
David Tarboton, PhD	Walt Baker, Division of Water Quality	Utah State University, Civil and Environmental Engineering Department	Hydrologic modeling	Surface water hydrology, water budget for Great Salt Lake, hydrologic modeling, climate effects on Great Salt Lake, internet based Great Salt Lake information system	Have not been able to verify whether he can commit to serving on the Science Panel Ongoing work for Division of Water Resources http://www.neng.usu.edu/cee/faculty/dtarb/
Great Salt Lake Ecosystem					
J. Wallace Gwynn, PhD, PG	Ryan Nesbitt, Division of Forestry, Fire & State Lands	Utah Geological Survey - retired	Geochemistry	Conducted Great Salt Lake research since 1975, specializes in salinity and minerals of Great Salt Lake	
Possible Independent Reviewers (nominated but unable to commit to be on Science Panel)					
Robert H. Kadlec, PhD	Dal Wayment, South Davis Sewer District	Consultant, Wetland Management Services	Wetlands Ecologist – physical, chemical, biological processes	Wetlands treatment systems, Assimilation and removal of nutrients, solids, metals in wetlands systems, Phosphorus cycling in Everglades, Author of the book <u>Treatment Wetlands</u>	Confirmed that Dr. Kadlec cannot commit the time required for Science Panel but would like to be considered for independent review tasks, will require compensation
Don Paul, PhD	Pam Kramer, Division of Wildlife Resources	Avian West, Inc.	Wildlife Biologist	Specializes in avian and habitat conservation, studied bird diversity/use/populations on GSL extensively with a focus on Willard Spur	Confirmed that he cannot commit the time required for the Science Panel but would like to be considered for independent review tasks