

Glen Canyon Dam Adaptive Management Program

FY25 Annual Reporting Meeting Agenda

Flagstaff, AZ; Little America - 2515 E Butler Avenue

Day 1 (Tuesday February 3, 8:00 a.m. – 5:00 p.m. MST) / Day 2 (Wednesday February 4, 8:00 a.m. – 5:00 p.m. MST)

Teams meeting registration: [ARM Day 1 Registration](#); Meeting ID: 292 932 119 799 49; Passcode: Lg7jx93r

Dial-in: [202-640-1187](#) | Code: 812970406#

Start	End	Duration	DAY 1 - Tuesday, 3 February 2026
8:00 AM	8:30 AM	0:30	Welcome and Administrative: Mark Anderson ¹ , Andrew Schultz ¹ , Bill Stewart (USBR), Jeremy Hammen (USBR), Seth Shanahan (SNWA)
8:30 AM	8:35 AM	0:05	Roundtable Introductions – name and affiliation
			Tribal Resources
8:35 AM	9:05 AM	0:30	Navajo Cultural Training; Erik Stanfield (Navajo Nation)
9:05 AM	9:25 AM	0:20	2025 Hopi River Monitoring; Jakob Maase (Hopi Tribe)
9:25 AM	9:45 AM	0:20	2025 Hualapai Monitoring Updates; Carrie Cannon (Hualapai Tribe)
9:45 AM	10:00 AM	0:15	Tribal Resources Discussion
10:00 AM	10:45 AM	0:45	POSTER BREAK
			Natural Processes
10:45 AM	11:05 AM	0:20	Drivers of aquatic insect production and diversity in the Colorado River; Ted Kennedy ¹ , Eric Scholl ¹ , Kate Behn ¹
11:05 AM	11:20 AM	0:15	Aquatic ecosystem monitoring using eDNA metabarcoding; David Lytle (Oregon State University)
11:20 AM	11:35 AM	0:15	Dissolved oxygen dynamics in Glen Canyon Dam releases; Bridget Deemer ¹
11:35 AM	11:50 AM	0:15	Natural Processes Discussion
11:50 AM	1:00 PM	1:10	LUNCH
			Rainbow Trout Fishery
1:00 PM	1:40 PM	0:40	Trout Metrics and Synthesis of Flow Effects on Trout Population Dynamics; Brian Healy ¹ , Josh Korman (Ecometric Research), Bridget R. Deemer ¹ , Benjamin Miller ¹ , Lindsay E. Hansen ¹ , Dale Fonken (AGFD), David Rogowski (AGFD), Charles B. Yackulic ¹ , Theodore A. Kennedy ¹ , Lucas Bair ¹
1:40 PM	1:55 PM	0:15	Rainbow Trout Fishery Discussion (with notes from Bill Persons (Trout Unlimited))
			Humpback Chub
1:55 PM	2:40 PM	0:45	Monitoring Humpback Chub in the Little Colorado River and Colorado River, Grand Canyon (synthesis across Humpback Chub projects); Maria Dzul ¹ , Mike Pillow (USFWS), Pilar Rinker (USFWS), John Fennell (AGFD), Charles B. Yackulic ¹ , David Ward (FWS), David Rogowski (AGFD), Lindsay Hansen ¹ , Benjamin Miller ¹ , Kimberly Dibble ¹
2:40 PM	2:55 PM	0:15	Humpback Chub Discussion
2:55 PM	3:40 PM	0:45	POSTER BREAK
			Nonnative Aquatic Species
3:40 PM	4:25 PM	0:45	A synthesis of nonnative aquatic species monitoring, research, and modeling in the Colorado River; Dibble, K.L. ¹ , C.B. Yackulic ¹ , D. Eppehimer ¹
4:25 PM	4:40 PM	0:15	Nonnative Aquatic Species Discussion
			Other Native Fishes
4:40 PM	4:45 PM	0:05	Colorado River Native Fishes-Introduction to the Other Native Fish Resource Goal
4:45 PM	5:00 PM	0:15	Other Native Fishes Discussion
5:00 PM	6:30 PM	1:30	POSTER BREAK (SOCIAL; Little America)
			End Day 1

¹ U.S. Geological Survey, Southwest Biological Science Center, Grand Canyon Monitoring and Research Center

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Day 1 (Tuesday February 3, 8:00 a.m. – 5:00 p.m. MST) / Day 2 (Wednesday February 4, 8:00 a.m. – 5:00 p.m. MST)

Teams meeting registration: [ARM Day 2 Registration](#); Meeting ID: 258 575 325 653 49; Passcode: RQ7JI2GY

Dial-in: [202-640-1187](#) | Code: [1625179#](#)

Start	End	Duration	DAY 2 - Wednesday, 4 February 2026
8:00 AM	8:10 AM	0:10	Morning Welcome: Mark Anderson ¹ , Bill Stewart (USBR), Jeremy Hammen (USBR), Seth Shanahan (SNWA)
			Hydropower and Energy
8:10 AM	8:25 AM	0:15	Hydropower Resource Update; Jerry Wilhite (WAPA)
8:25 AM	8:40 AM	0:15	Hydropower and Energy Resource Discussion
			Recreational Experience
8:40 AM	9:00 AM	0:20	Recreational Experience Introduction; Ben Reeder (Grand Canyon River Guides)
9:00 AM	9:15 AM	0:15	Recreational Experience Discussion
9:15 AM	10:00 AM	0:45	POSTER BREAK
10:00 AM	10:20 AM	0:20	Project L: Overflight Remote Sensing in Support of Long-Term Monitoring and LTEMP; Joshua Caster ¹
			Sediment
10:20 AM	10:50 AM	0:30	Evaluation of LTEMP sand management; David J. Topping ¹ , Paul E. Grams ¹ , Ronald E. Griffiths ¹ , Matt Kaplinski ¹ , Katie A. Chapman ¹ , David J. Dean ¹ , Max A. Evans ¹ , Gerald Salter ¹ , Keegan M. Donovan (Arizona Water Science Center)
10:50 AM	11:10 AM	0:20	Riverbed and sandbar response to dam operations and high-flow experiments; Paul Grams ¹ , Matt Kaplinski ¹ , Shannon Sartain ¹ , Gerard Salter ¹ , Katie Chapman ¹ , Robert Tusso ¹ , David Topping ¹
11:10 AM	11:30 AM	0:20	Reservoir Operational Strategies for Sustainable Sand Management in the Colorado River (summary of recent publication), Gerard Salter ¹
11:30 AM	11:45 AM	0:15	Sediment Discussion
11:45 AM	1:15 PM	1:30	LUNCH
			Riparian Vegetation
1:15 PM	1:35 PM	0:20	Vegetation Induced Declines in Channel Width with Implications for Eddy Sandbar Dynamics in the Colorado River in Marble and Grand Canyons; David Dean ¹ , Josh Caster ¹ , Joel Sankey ¹ , Paul Grams ¹ , Helen Fairley ¹ , Emily Palmquist ¹
1:35 PM	1:55 PM	0:20	Colorado River plant communities in Glen, Marble, and Grand Canyons; Emily Palmquist ¹ , Bradley Butterfield (Northern Arizona University), Nathaniel Bransky ¹ (Northern Arizona University), Joel Sankey ¹
1:55 PM	2:15 PM	0:20	Riparian Plant Responses to Flow Regulation: A Preliminary Synthesis; Bradley Butterfield (Northern Arizona University), Emily Palmquist ¹
2:15 PM	2:30 PM	0:15	Riparian Vegetation Discussion
2:30 PM	3:15 PM	0:45	POSTER BREAK
			Archaeological and Cultural Resources
3:15 PM	3:35 PM	0:20	Project D: Experimental Management of Aeolian-Fluvial Interactions and Riparian Vegetation Feedbacks for Cultural Resources in Grand Canyon; Joel Sankey ¹ , Joshua Caster ¹ , Helen Fairley ¹
3:35 PM	3:50 PM	0:15	Archaeological and Cultural Resource Discussion
			General Discussion Time
3:50 PM	5:00 PM	1:10	Discussion
5:00 PM	5:00 PM		End Day 2

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FY25 Annual Reporting Meeting Posters

Poster Breaks mid-morning and afternoon on Days 1 and 2, evening Day 1 – See Agenda

LTEMP METRICS REPORTING	AUTHORS
LTEMP Resource Goal 1: Archaeological Sites and Cultural Resources	Helen Fairley ¹ , Joel Sankey ¹ , Joshua Caster ¹
LTEMP Resource Goal 2: Natural Processes	Bridget Deemer ¹ , Emily Palmquist ¹ , Ted Kennedy ¹
LTEMP Resource Goal 3: Humpback Chub	Maria Dzul ¹ , Kimberly Dibble ¹ , Emily Omana Smith ⁶ , Jeff Arnold ⁷ David Ward ⁸ , David Rogowski ⁹ , Charles Yackulic ¹
LTEMP Resource Goal 4: Hydropower and Energy	Gregory Mark Anderson ¹
LTEMP Resource Goal 5: Other Native Fishes	Brian Healy ¹ , Kim Dibble ¹
LTEMP Resource Goal 6: Recreational Experience	Gregory Mark Anderson ¹
LTEMP Resource Goal 7: Sediment	Matt Kaplinski ¹ , David Topping ¹ , Paul Grams ¹ , Katherine Chapman ¹ , Robert Tusso ¹ , Gerard Salter ¹ , Shannon Sartain ¹
LTEMP Resource Goal 8: Tribal Values and Resources	Gregory Mark Anderson ¹
LTEMP Resource Goal 9: Rainbow Trout Fishery	Brian Healy ¹
LTEMP Resource Goal 10: Nonnative Invasive Species	Dibble, K.L. ¹ , L. Hansen ¹ , K. Behn ¹ , C.B. Yackulic ¹ , D. Eppheimer ¹ , J. Arnold ⁷ , E. Omana Smith ⁶ , D. Rogowski ⁹ , D. Ward ⁸
LTEMP Resource Goal 11: Riparian Vegetation	Palmquist, E.C. ¹ , B.J. Butterfield ¹⁰ , E. Jordan ¹

POSTERS	AUTHORS
Toward improved efficiency in measuring realtime Paria River sediment loads for HFE design	Ronald E. Griffiths ¹ and others TBD
Sandbar monitoring data and photos	Katie Chapman ¹ , Bob Tusso ¹
Monitoring and predicting channel change in Western Grand Canyon in response to Glen Canyon Dam flows and High Flow Experiments	Shannon Sartain ¹ , Paul Grams ¹ , Matt Kaplinski ¹ , Katie Chapman ¹ , Bob Tusso ¹ , Erich Mueller ¹¹
Visualizing Hydropower Impacts of Coolmix Flows	Lucas Bair ¹ , Drew Eppheimer ¹
Grand Canyon Citizen Science PIT Antenna – Year 1 Summary	Ben Miller ¹ , Kiona Allen ¹ , Maria Dzul ¹
Hydrologic Data Collection in Grand Canyon and Colorado River Tributaries	Keegan Donovan ² , Zach Harrison ² , Chaska Boucher ² , Kat Cooney ² , Janice Talley ²
Decreasing water levels in lakes and reservoirs promote increasing phytoplankton levels: a systematic review	Kathryn K. Hoffman ³ , Bridget R. Deemer ¹ , Mary E. Lofton ³ , Cayelan C. Carey ³
Fusion of ground-penetrating radar and terrestrial lidar to investigate fluvial-aeolian interactions in Grand Canyon	Joshua Caster ¹ , Madeline M. Kelley ¹ , Joel B. Sankey ¹ , Ryan Porter ² , Amy E. East ³ , Nathaniel Bransky ^{1,4} , Helen Fairley ¹
The role of GIS in communicating hazard risk and developing an emergency alert system in Grand Canyon, Arizona.	Thomas M. Gushue ¹ , Erica P. Byerley ¹
Post-dam Glen Canyon diatom assemblage change	John Wehr ⁴ , Larry Stevens ⁵
Natural and dam-related biotic discontinuities	Larry Stevens ⁵
SPC Colorado River Corridor Resource Review	Daniel Bulletts ¹²

¹U.S. Geological Survey, Southwest Biological Science Center, Grand Canyon Monitoring and Research Center, Flagstaff, AZ

² U.S. Geological Survey, Arizona Water Science Center, Flagstaff, AZ

³ Virginia Tech, Department of Biological Sciences, Blacksburg, VA

⁴ Fordham University, Department of Biological Sciences, Bronx, NY

⁵ Southwest Wildlands, Flagstaff, AZ

⁶ National Park Service, Grand Canyon National Park, Arizona

⁷ National Park Service, Glen Canyon National Recreation Area, Arizona/Utah

⁸ US Fish and Wildlife Service, AZ Fish and Wildlife Conservation Office, Flagstaff, AZ

⁹ Arizona Game and Fish Department, Arizona

¹⁰ Northern Arizona University, Department of Biological Sciences Flagstaff, AZ

¹¹ Southern Utah University, Department of Geosciences, Cedar City, UT

¹² Southern Paiute Consortium