

Conversation Contents

Possible Phone Calls, Events, Site Visits for the Secretary

Attachments:

/57. Possible Phone Calls, Events, Site Visits for the Secretary/1.1 Memo-Secretarial Calls Site Visit and Speaking Opps.docx

"Nichols, Ryan" <ryan_nichols@ios.doi.gov>

From: "Nichols, Ryan" <ryan_nichols@ios.doi.gov>
Sent: Wed Mar 08 2017 08:02:52 GMT-0700 (MST)
To: Scott Hommel <scott_hommel@ios.doi.gov>, "Boulton, Caroline" <caroline_boulton@ios.doi.gov>, Timothy Williams <timothy_williams@ios.doi.gov>
CC: Russell Roddy <russell_roddey@ios.doi.gov>, Scott Cameron <scott_cameron@ios.doi.gov>
Subject: Possible Phone Calls, Events, Site Visits for the Secretary
Attachments: Memo-Secretarial Calls Site Visit and Speaking Opps.docx

Scott, Caroline, and Tim,

The Office of Water & Science has prepared a memo (attached) highlighting some priority events & site visits that we would like the Secretary to consider.

The memo contains four recommended site visits in Denver, CO, should the Secretary's travel take him there in the near future.

Thanks,

--

Ryan Nichols
Special Assistant to the Secretary
Department of the Interior

MEMORANDUM

Date: March 7th, 2017

To: Scott Hommel, Caroline Boulton, Tim Williams, Immediate Office of the Secretary

From: Scott Cameron & Ryan Nichols, Office of the Assistant Secretary of Water & Science

Subject: Possible Phone Calls, Events, Site Visits for Secretary Zinke

Not knowing what the Secretary's calendar looks like over the next two months, we wanted to provide some ideas for your consideration, from a Water & Science perspective.

Priority Phone Calls for March:

Introductory **conference call with the Governors or representatives of the Colorado River Basin Compact states** (California, Arizona, Nevada, New Mexico, Colorado, Utah, Wyoming) to let them know he recognizes his role as the Watermaster of the Lower Colorado and DOI's role more generally in working with all the Basin states on the Drought Contingency Plans for both the Upper and Lower Basins and the pending international water shortage sharing agreement with Mexico. Recommend this call happen in March some time. ASWS and Reclamation are happy to support the logistics and pre-briefing for the Secretary for such a call.

Conference call with the Governors or their representatives of the Columbia River Basin states (Montana, Idaho, Wyoming, Oregon, Washington) to offer to assist them in keeping invasive zebra and quagga mussels out of the Basin. If the mussels get established in the Basin they are estimated to cost the region about \$500 million in economic harm annually, and disrupt ecosystems, possibly leading to more ESA listings. ASWS has been leading a multi-bureau team (Reclamation, USGS, BLM, NPS, FWS, BIA) to position Interior to better carry out its own responsibilities on this issue, and support state actions. ASWS is happy to support the logistics and pre-briefing for the Secretary for such a call.

Events Through May

More details available upon request.

Priority Opportunities

- **March 16:** Interior's Graduation Ceremony for the current class of Senior Executive Service Candidate Development Program (SESCDP) participants will be held in Main Interior. These individuals are completing their training to be ready to assume career SES positions in the federal government.
- **April 2-5:** The American Association of Petroleum Geologists (AAPG) annual conference, Houston, Texas.
- **Late April or early May:** Glacier National Park (GNP) sometimes has a "show me" day on the Going to the Sun Road to talk about clearing the road and avalanche forecasting.

- **May 2017:** The USGS Honor Awards Ceremony at the USGS National Center, Reston, Virginia.

Other Opportunities

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- **April 12:** Navajo Generating Station second stakeholder meeting (Main Interior Building).
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- **Various Dates: C.A.S.T. for Kids, Catch a Special Thrill Events in the West**
Reclamation is a partner with the C.A.S.T. for Kids Foundation and collaboratively hosts events for disabled and disadvantaged children for a day of fishing in the outdoors. The Bureau of Reclamation hosts events throughout the Spring, Summer and early Fall. Upcoming locations include Lake Pleasant on April 15 near Phoenix, Arizona; Lake Bastrop on May 6 near Austin, Texas; Lake Berryessa on May 6 near Napa, California; and Navajo Lake on May 13 near Durango, Colorado.

Site Visits

USGS has offices and conducts research across the U.S. and its territories. Near almost any destination that Secretary may need to travel, there will be a USGS science center, laboratory or ongoing research project to visit. The Bureau of Reclamation has offices in the western half of the country. Here are a few highlighted opportunities, organized by state/territory:

AK

USGS Alaska Science Center & Volcano Observatory

4230 University Drive
Anchorage, AK

CA

Folsom Dam and the Joint Federal Project; Folsom, California (near Sacramento, California)

The Folsom Joint Federal Project (JFP) is a collaborative effort by Reclamation and the U.S. Army Corps of Engineers to address the dam safety hydrologic risk at the Folsom facility and improve flood protection. The cornerstone for more than \$1 billion in dam safety and flood damage reduction improvements at the Folsom facility, the JFP is a new auxiliary spillway consisting of a 2,400-foot spillway chute, a concrete control structure with six submerged gates, a 1,100-foot-long approach channel, and other main features. Altogether, the JFP is estimated to cost up to \$1 billion less and be completed faster than the three separate projects originally authorized by Congress to reduce the risk of flooding and mitigate the dam safety hydrologic risk to the Sacramento region. Folsom Dam and Reservoir is critical for water supply, power generation, fish and wildlife mitigation and enhancement and other purposes. Roughly one million annual visitors use Folsom Lake and the surrounding area for recreation.

Water Reclamation and Reuse Facilities in Southern California

Through the Title XVI Program, Reclamation has collaboratively funded the planning and construction of water reclamation and reuse facilities, many of them are in Southern California. Since 1992, 53 projects have been specifically authorized under Title XVI. At completion of construction, Congressionally authorized

Title XVI projects together have a maximum estimated capacity of about 738,000 acre-feet per year at build out. A tour of one or more of the facilities will be arranged if the Secretary is interested.

CO

USGS Ice Core Lab (Denver, CO)

Tour Bureau of Reclamation Research Laboratories; Denver, Colorado

The Bureau of Reclamation's Technical Service Center maintains research laboratories in Denver, Colorado. Laboratories include the Concrete, Geotech, and Structural Laboratory, Materials & Corrosion Laboratory, Hydraulic Investigations and Laboratory, and Reclamation Detection Laboratory for Exotic Species. The lab includes structural models of water projects in the Western United States and a lab for the detection of invasive mussels in western water bodies. The tour would conclude with a demonstration of the 5-million-pound testing machine that is used to test the strength of concrete. Reclamation has more than 1,000 employees at its office and laboratories in Denver.

Colorado-Big Thompson Project; Near Fort Collins, Colorado

The Colorado-Big Thompson Project is one of the largest and most complex natural resource developments consisting of more than 100 structures integrated into a transmountain water diversion system through which multiple benefits are provided to the people. It stores, regulates, and diverts water from the Colorado River on the western slope of the Continental Divide to the eastern slope of the Rocky Mountains providing supplemental water for irrigation of about 720,000 acres of land, municipal and industrial use, hydroelectric power, and water-oriented recreation opportunities. Tour could consist of structures on the eastern side of the project that stretches from Estes Park to reservoirs and power plants near Fort Collins and Loveland.

Tour Projects of the Denver Urban Waters Federal Partnership; Denver, Colorado

In Denver, Interior is working cooperatively with EPA and USDA and other federal and local agencies. At the request of the city, USGS developed and is updating a desktop water assessment tool for the Denver metro area to provide a picture of pollutants affecting the South Platte River basin. EPA, NPS, FWS, and other agencies and local entities are also assessing, mapping, and evaluating the regional network of green infrastructure (this includes the interconnected network of critical watershed forests, riparian corridors, wetlands, streams, lakes and the river). Local officials wish to prioritize key areas for conservation and restoration based on the benefits people obtain from these natural systems. The Partnership operates on the premise that our biggest successes happen when the feds work together with the community.

FL

USGS Manatee Event (Crystal River National Wildlife Refuge in FL)

MT

The USGS/Montana State University (MSU) Center for Biofilm Engineering

NM

Middle Rio Grande Project; near Albuquerque, New Mexico

The Middle Rio Grande Endangered Species Collaborative Program is a diverse partnership of governmental, tribal, and non-governmental organizations working to protect and improve the status of endangered species along the Middle Rio Grande of New Mexico, while simultaneously protecting existing and future regional water uses. Partners include the Fish and Wildlife Service, U.S. Army Corps of Engineers, Pueblos of Santo Domingo, Sandia, Isleta, and Santa Ana, State of New Mexico, Middle Rio Grande Conservancy District.

Tour Projects of Middle Rio Grande Urban Waters Federal Partnership; Albuquerque, NM

In Albuquerque, Interior—FWS, USGS, NPS, Reclamation—has been working closely with the U.S. Dept. of Housing and Urban Development to accomplish multiple projects that are priorities for residents and city officials: an \$8M grant to improve access to Valle de Oro Urban National Wildlife Refuge, funding from EPA for FWS youth education programs, USGS installation of a water gage at the Refuge to address water pollution, and NPS and FWS assistance in planning a riverside trail. The Partnership operates on the premise that our biggest successes happen when the feds work together with the local community.

NV

Hoover Dam; Boulder City, Nevada (near Las Vegas, Nevada)

Hoover Dam is an iconic dam in the American Southwest on the Colorado River. The tour will highlight how Reclamation and Interior are addressing drought in the Colorado River basin, hydropower generation with lower Lake Mead water levels, and the ongoing work with the basin states and Mexico regarding Colorado River issues. Adjacent to the dam is the recently completed Mike O'Callaghan–Pat Tillman Memorial Bridge.

UT

Olmsted Hydroelectric Powerplant Restoration Project; near Provo, Utah

In 1990, the United States acquired the Olmsted Powerplant from PacifiCorp. PacifiCorp operated the facility until September 2015. The Olmsted water rights are a key component of the Bonneville Unit water supply, and at times represent over sixty-five percent of storage capability in Jordanelle Reservoir. The capability of continued power generation is necessary in order to maintain the Olmsted water rights. Through a partnership between the United States and Central Utah Water Conservancy District, the existing powerplant is being replaced with new facilities. Construction began Fall 2016 and will be complete fall of 2018. Once complete, the Utah Lake System will use the penstock for water delivery to Salt Lake County.

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Updated travel memo for the Secretary

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Sent: Tue Mar 07 2017 15:49:00 GMT-0700 (MST)
To: Scott Cameron <scott_cameron@ios.doi.gov>
Subject: Updated travel memo for the Secretary
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Scott,

Here's the revised memo. Lisa added an Albuquerque and Denver project to the site visit list. The blurbs are long but look fine. I think this whole memo is quite long, but I think it's time to submit it ASAP.

--

Ryan Nichols
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Secretary's Travel Memo with Events & Suggested Sites

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/59. Secretary's Travel Memo with Events & Suggested Sites/2.1 Secretarial Calls Site Visit and Speaking Opps.docx
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"Nichols, Ryan" <ryan_nichols@ios.doi.gov>

From: "Nichols, Ryan" <ryan_nichols@ios.doi.gov>
Sent: Mon Mar 06 2017 15:46:06 GMT-0700 (MST)
To: Scott Cameron <scott_cameron@ios.doi.gov>
Subject: Secretary's Travel Memo with Events & Suggested Sites
Attachments: MEMORANDUM - Zinke Site Visit and Conference Options.docx

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Here's my updated travel memo.

I removed the C level events and put the remaining events into tier 1 and tier 2.

With site visits I labeled them as high priority and low priority sites, with the B grades not receiving either designation. It didn't make sense to erase two options from the Denver visit because the Advance Team can always eliminate extraneous opportunities when they plan his schedule. If you want me to change that I can adjust the format.

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Lisa, please provide your input.

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Scott
Scott J. Cameron
Special Assistant
Office of the Secretary of the Interior
Desk 202 208 0969
Cell 202 706 9031

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"Pelstring, Lisa" <lisa_pelstring@ios.doi.gov>

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Sent: Tue Mar 07 2017 11:59:30 GMT-0700 (MST)
To: "Cameron, Scott" <scott_cameron@ios.doi.gov>
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Subject: Re: Secretary's Travel Memo with Events & Suggested Sites
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Hi Scott and Ryan,

Attached are two suggestions for site visits: Albuquerque and Denver. Please feel free to edit or delete if these items don't pass muster.

Thank you, Lisa

Lisa Pelstring
Advisor, Urban Environmental Issues and the Urban Waters Federal Partnership
Office of Water and Science and Office of Fish, Wildlife, and Parks
U.S. Department of Interior
202.309.2561
Lisa_Pelstring@ios.doi.gov
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Ryan Nichols
Special Assistant to the Secretary
Department of the Interior

MEMORANDUM

Date: March 6, 2017

From: Office of the Assistant Secretary of Water & Science

To: Immediate Office of the Secretary

Subject: Possible Events & Site Visits for the Secretary of the Interior

In response to Sec. Zinke's statements that he'd like to visit several states and territories the ASWS office has compiled a list of potential site visits to Reclamation & USGS facilities and events for him to consider participating in.

Events

More details available upon request.

Tier I Priorities

- **March 4-11:** The 82nd North American Wildlife and Natural Resource Conference in Spokane, Washington.
- **March 6:** Spring Liaison Meeting of the Association of American State Geologists (AASG)
- **April 2-5:** The American Association of Petroleum Geologists (AAPG) annual conference, Houston, Texas.
- **Late April or early May:** Glacier National Park (GNP) sometimes has a "show me" day on the Going to the Sun Road to talk about clearing the road and avalanche forecasting.
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Tier II Priorities

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- **April 6:** The Interagency Bison Management Plan meeting in West Yellowstone, Montana.
- **April 12:** Navajo Generating Station second stakeholder meeting (location TBD). If the location is near Page, AZ then the Secretary could visit the grand re-opening of the Glen Canyon Dam Visitor Center, the Navajo Generating Station, and Glen Canyon National Recreation Area. Bears Ears National Monument would be relatively close as well.
- **May 11:** Arctic Council Ministerial Meeting, Fairbanks, Alaska.
- **Various Dates:** C.A.S.T. for Kids, Catch a Special Thrill Events in the West

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USVI (this is a low priority site, but if the Secretary is there it's an option)

USGS Field Station for the [Wetland and Aquatic Research Center](#)

1300 Cruz Bay Creek

St. John, VI 00830

(The larger Caribbean-FL Water Science Center is located in Guaynabo, Puerto Rico)

MT (low priority)

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In 1990, the United States acquired the Olmsted Powerplant from PacifiCorp. PacifiCorp operated the facility until September 2015. The Olmsted water rights are a key component of the Bonneville Unit water supply, and at times represent over sixty-five percent of storage capability in Jordanelle Reservoir. The capability of continued power generation is necessary in order to maintain the Olmsted water rights. Through a partnership between the United States and Central Utah Water Conservancy District, the existing powerplant is being replaced with new facilities. Construction began Fall 2016 and will be complete fall of 2018. Once complete, the Utah Lake System will use the penstock for water delivery to Salt Lake County.

June Sucker Habitat Restoration (near Provo, UT)

The U.S. Fish and Wildlife Service lists the June sucker, a native species found only in Utah Lake and its tributaries, as endangered. One of the key elements for recovery of the June sucker is habitat restoration and maintenance. Over the years the tributaries to Utah Lake have been channelized and narrowed eliminating natural habitat. Two areas on Hobble Creek have been restored and are functional. The Provo River Delta Restoration Project is under development. This project will establish more natural habitat conditions at the interface between the Provo River and Utah Lake. Land is now being acquired for the project and designs are underway.

CO

Low priority sites

Loch Vale Watershed in Rocky Mountain National Park (Part of the [Water, Energy, Biogeochemical Budgets](#) (WEBB) program)

USGS Ice Core Lab (Denver, CO)

High priority sites

Tour Bureau of Reclamation Research Laboratories; Denver, Colorado

The Bureau of Reclamation's Technical Service Center maintains research laboratories in Denver, Colorado. Laboratories include the Concrete, Geotech, and Structural Laboratory, Materials & Corrosion Laboratory, Hydraulic Investigations and Laboratory, and Reclamation Detection Laboratory for Exotic Species. The lab includes structural models of water projects in the Western United States and a lab for the detection of invasive mussels in western water bodies. The tour would conclude with a demonstration of the 5-million-pound testing machine that is used to test the strength of concrete. Reclamation has more than 1,000 employees at its office and laboratories in Denver.

Colorado-Big Thompson Project; Near Fort Collins, Colorado

The Colorado-Big Thompson Project is one of the largest and most complex natural resource developments consisting of more than 100 structures integrated into a transmountain water diversion system through which multiple benefits are provided to the people. It stores, regulates, and diverts water from the Colorado River on the western slope of the Continental Divide to the eastern slope of the Rocky Mountains providing supplemental water for irrigation of about 720,000 acres of land, municipal and industrial use, hydroelectric power, and water-oriented recreation opportunities. Tour could consist of structures on the eastern side of the project that stretches from Estes Park to reservoirs and power plants near Fort Collins and Loveland.

AK (high priority)

USGS Alaska Science Center & Volcano Observatory

4230 University Drive
Anchorage, AK

CA

High priority site

Folsom Dam and the Joint Federal Project; Folsom, California (near Sacramento, California)

The Folsom Joint Federal Project (JFP) is a collaborative effort by Reclamation and the U.S. Army Corps of Engineers to address the dam safety hydrologic risk at the Folsom facility and improve flood protection. The cornerstone for more than \$1 billion in dam safety and flood damage reduction improvements at the Folsom facility, the JFP is a new auxiliary spillway consisting of a 2,400-foot spillway chute, a concrete control structure with six submerged gates, a 1,100-foot-long approach channel, and other main features. Altogether, the JFP is estimated to cost up to \$1 billion less and be completed faster than the three separate projects originally authorized by Congress to reduce the risk of flooding and mitigate the dam safety hydrologic risk to the Sacramento region. Folsom Dam and Reservoir is critical for water supply, power generation, fish and wildlife mitigation and enhancement and other purposes. Roughly one million annual visitors use Folsom Lake and the surrounding area for recreation.

Low priority site

Water Reclamation and Reuse Facilities in Southern California

Through the Title XVI Program, Reclamation has collaboratively funded the planning and construction of water reclamation and reuse facilities, many of them are in Southern California. Since 1992, 53 projects have been specifically authorized under Title XVI. At completion of construction, Congressionally authorized Title XVI projects together have a maximum estimated capacity of about 738,000 acre-feet per year at build out. A tour of one or more of the facilities will be arranged if the Secretary is interested.

NV (high priority)

Hoover Dam; Boulder City, Nevada (near Las Vegas, Nevada)

Hoover Dam is an iconic dam in the American Southwest on the Colorado River. The tour will highlight how Reclamation and Interior are addressing drought in the Colorado River basin, hydropower generation with lower Lake Mead water levels, and the ongoing work with the basin states and Mexico regarding Colorado River issues. Adjacent to the dam is the recently completed Mike O'Callaghan–Pat Tillman Memorial Bridge.

ID (low priority)

Urbanized Canals and Arrowrock Dam; Near Boise, Idaho

Reclamation's water conveyance facilities, including the New York Canal near Boise, have had or are having urban type development surround them, often impacting operation and maintenance activities and creating a newer liability that did not exist when they were constructed. Water is usually in the canals from April to October. Water from the New York Canal is stored in Arrowrock Dam on the Boise River. It is more than 100 years old. The Boise River Basin Feasibility Studies have and continue to require close coordination with U.S. Army Corps of Engineers, state entities, and interests throughout the region.

WA (low priority)

Yakima Project; Near Yakima, Washington

The Yakima Basin Integrated Plan Activities include the Cle Elum Dam Fish Passage and Reservoir Pool Raise, a juvenile fish passage facility that has an innovative helix design to transport juvenile fish downstream over 63 feet of fluctuation in the reservoir elevation. It may be difficult to travel to in the winter. It is best accessed from April through October.

Columbia Basin Project; Ephrata, Washington Area

The Odessa Ground Water Replacement is a public-private partnership designed to address depletion of the Odessa Aquifer by replacing approximately 87,000 acres of groundwater irrigation with Columbia River surface water. Could be visited majority of year, April-October to visit during irrigation season.

NM

Middle Rio Grande Project; near Albuquerque, New Mexico

The Middle Rio Grande Endangered Species Collaborative Program is a diverse partnership of governmental, tribal, and non-governmental organizations working to protect and improve the status of endangered species along the Middle Rio Grande of New Mexico, while simultaneously protecting existing and future regional water uses. Partners include the Fish and Wildlife Service, U.S. Army Corps of Engineers, Pueblos of Santo Domingo, Sandia, Isleta, and Santa Ana, State of New Mexico, Middle Rio Grande Conservancy District.

MEMORANDUM

Date: March 6, 2017

To: Scott Hommel, Caroline Boulton, Tim Williams, Immediate Office of the Secretary

From: Scott Cameron and Ryan Nichols, Office of the Assistant Secretary of Water & Science

Subject: Possible Phone Calls, Events, Site Visits for Secretary Zinke

Not knowing what the Secretary's calendar looks like over the next two months, we wanted to provide some ideas for your consideration.

Priority Phone Calls for March:

Introductory conference call with the Governors or representatives of the Colorado River Basin Compact states (California, Arizona, Nevada, New Mexico, Colorado, Utah, Wyoming) to let them know he recognizes his role as the Watermaster of the Lower Colorado and DOI's role more generally in working with all the Basin states on the Drought Contingency Plans for both the Upper and Lower Basins and the pending international water shortage sharing agreement with Mexico. Recommend this call happen in March some time. ASWS and Reclamation are happy to support the logistics and pre-briefing for the Secretary for such a call.

Conference call with the Governors or their representatives of the Columbia River Basin states (Montana, Idaho, Wyoming, Oregon, Washington) to offer to assist them in keeping invasive zebra and quagga mussels out of the Basin. If the mussels get established in the Basin they are estimated to cost the region about \$500 million in economic harm annually, and disrupt ecosystems, possibly leading to more ESA listings. ASWS has been leading a multi-bureau team (Reclamation, USGS, BLM, NPS, FWS, BIA) to position Interior to better carry out its own responsibilities on this issue, and support state actions. ASWS is happy to support the logistics and pre-briefing for the Secretary for such a call.

Events Through May

More details available upon request.

Priority Opportunities

- **March 16:** Interior's Graduation Ceremony for the current class of Senior Executive Service Candidate Development Program (SESCDP) participants will be held in Main Interior. These individuals are completing their training to be ready to assume career SES positions in the federal government.
- **April 2-5:** The American Association of Petroleum Geologists (AAPG) annual conference, Houston, Texas.
- **Late April or early May:** Glacier National Park (GNP) sometimes has a "show me" day on the Going to the Sun Road to talk about clearing the road and avalanche forecasting.

- **May 2017:** The USGS Honor Awards Ceremony at the USGS National Center, Reston, Virginia.

Other Opportunities

- **March 14-16:** The 17th annual forum of the Crown Managers Partnership (CMP) in Choteau, Montana. *“Improving Drought Resilience - From Forest to Valley Bottom.”*
- **March 28-30:** Wyoming Landscape Conservation Initiative ([WLCI](#)) Executive Committee Quarterly Meeting, Cheyenne, Wyoming.
- **April 6:** The Interagency Bison Management Plan meeting in West Yellowstone, Montana.
- **April 12:** Navajo Generating Station second stakeholder meeting (location TBD). If the location is near Page, AZ then the Secretary could visit the grand re-opening of the Glen Canyon Dam Visitor Center, the Navajo Generating Station, and Glen Canyon National Recreation Area. Bears Ears National Monument would be relatively close as well.
- **May 11:** Arctic Council Ministerial Meeting, Fairbanks, Alaska.
- **Various Dates: C.A.S.T. for Kids, Catch a Special Thrill Events in the West**
Reclamation is a partner with the C.A.S.T. for Kids Foundation and collaboratively hosts events for disabled and disadvantaged children for a day of fishing in the outdoors. The Bureau of Reclamation hosts events throughout the Spring, Summer and early Fall. Upcoming locations include Lake Pleasant on April 15 near Phoenix, Arizona; Lake Bastrop on May 6 near Austin, Texas; Lake Berryessa on May 6 near Napa, California; and Navajo Lake on May 13 near Durango, Colorado.

Site Visits

USGS has offices and conducts research across the U.S. and its territories. Near almost any destination that Secretary may need to travel, there will be a USGS science center, laboratory or ongoing research project to visit. The Bureau of Reclamation has offices in the western half of the country. Here are a few highlighted opportunities, organized by state/territory:

US Virgin Islands

USGS Field Station for the [Wetland and Aquatic Research Center](#)

1300 Cruz Bay Creek

St. John, VI 00830

(The larger Caribbean-FL Water Science Center is located in Guaynabo, Puerto Rico)

MT

The USGS/Montana State University (MSU) Center for Biofilm Engineering

FL

USGS Manatee Event (Crystal River National Wildlife Refuge in FL)

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