



BEAR RIVER COMMISSION

106 West 500 South
Suite 101
Bountiful, Utah 84010-6203
801-292-4662
801-524-6320 fax

CHAIR

Jody Williams

IDAHO COMMISSIONERS

Gary Spackman
Kerry Romrell
Curtis Stoddard

UTAH COMMISSIONERS

Eric Millis
Blair Francis
Charles W. Holmgren

WYOMING COMMISSIONERS

Pat Tyrrell
Adrian Hunolt
Tim Teichert

ENGINEER-MANAGER

Don A. Barnett

MINUTES

BEAR RIVER COMMISSION REGULAR MEETING ONE HUNDRED THIRTY-FIRST COMMISSION MEETING NOVEMBER 21, 2017

I. Call to order – The regular meeting of the Bear River Commission was called to order by Chairwoman Jody Williams at 1:30 p.m. on Tuesday, November 21, 2017, at the Utah Department of Natural Resources building in Salt Lake City, Utah. This was the one-hundred thirty-first meeting of the Commission. Williams excused Kerry Romrell from Idaho who was not able to attend. She also noted that Todd Adams was filling in for Eric Millis from Utah who had been called away to meet with the Governor. Williams asked the Commissioners and audience to introduce themselves. An attendance roster is attached to these minutes as Appendix A.

Williams then addressed the agenda for the meeting. There were a few incorrect names on the agenda which were corrected. The agenda was approved with those changes. A copy of the agenda is attached to these minutes as Appendix B.

II. Approval of minutes of last Commission meeting – Williams asked if there were any changes to the draft minutes of the previous Commission meeting held on April 18, 2017, in Salt Lake City, Utah. A motion was made to approve the minutes with no changes. The motion was seconded and passed.

III. Reports of Secretary and Treasurer – Todd Adams asked Randy Staker to give a financial report for the Commission. Staker highlighted some of the numbers for FY2017 and noted the total expenses for the year were \$125,663.77. Moving to FY2018 he pointed out expenses to date of \$78,328.24, with a balance of \$155,854.05 as of November 15th. Adams added that many of the expenses of the 20-year Compact Review had not yet been paid. There was some discussion in the Management Committee of the need to amend the 2018 budget in order to pay some of those costs. The Management Committee also discussed the increase of dues for FY2019 in the amount of \$5,000 per state. Pat Tyrrell suggested that it would be a good idea to include in the minutes how long it had been since the last increase in state dues. [The last increase in dues was in FY2009.] There was a motion to approve the closeout of the finances for FY2017, and the Commission unanimously voted in favor of the motion. The financial statements are attached as Appendix C.

IV. 20-year Compact Review – Chairwoman Williams noted that in the April meeting the Commission initiated the 20-year Compact Review. Since that time there had been a great deal of effort in arranging for public meetings and getting the word out. Williams shared feedback from the Management

Committee and Commissioners that the Engineer-Manager, Don Barnett, had done a great job with those efforts and the meetings had been well planned and very successful. Barnett then gave a status report on the 20-year Review. He noted that public comment was being accepted through December 4th, after which the Commission could begin to review the written comments. He explained that five public meetings were held in various locations which were attended and supported by the Bear River Commissioners in those areas. A presentation was given regarding the purpose of the review with background information on the Commission and the Bear River Compact. There were several oral comments given at the meetings, with encouragement to send in written comments as well. Barnett reviewed what the Commission had done prior to the meetings to get the word out. First of all, a splash announcement was put on the home page of the Commission's website, along with a notice of the meetings. The website was modified to add a tab that was specific to the 20-year Review. This page consisted of a great deal of information with links to a number of documents giving background about the Compact and its history. The 20-year review page is open and active so that updates can be given on the status of the review for those who are interested in the progress of the effort. Notices of the public meetings were published in 14 different newspapers specific to meetings held in the geographic area covered by those newspapers. Press releases were also sent out to those newspapers and several radio and TV stations to encourage articles to be written or announcements made. Barnett was aware of articles that came out in three newspapers, but there could have been more.

Barnett indicated that a couple of questions came up during the 20-year review process that were discussed by the Management Committee. As a result of these requests, it was determined that the PowerPoint presentation given at the meetings would be posted to the website along with the attendance rosters and a brief summary of the meetings and oral comments that were given. Also, shortly after the December 4th deadline, the written comments will be scanned and made available on the website for those who are interested. Pat Tyrrell noted that the summaries of the meetings are not formal Commission documents, but were prepared by those in the individual states who were asked to take notes at the meetings. Tyrrell wondered if the list of all the advertisements sent out should be posted to the website so people could be aware of the effort made to get the word out. He also noted that in addition to this list, other efforts were made by the individual states. For instance, Wyoming put it on their website and also sent out the press release through their email "shotgun system." Barnett agreed that the list could be put on the website. He also asked for additional information from the other states as to what publicity they may have initiated.

In answer to a question about the timeline going forward, Barnett indicated that the duration of the review will depend on the written comments received by December 4th and what action the Commission decides to take as a result of the input received. It was hoped that there would be some direction on the path the review would take by the April Commission meeting. Barnett's presentation is attached as Appendix D.

V. Utah's Bear River Comprehensive Management Plan – Laura Vernon from the Utah Division of Forestry, Fire and State Lands gave an update on Utah's Bear River Comprehensive Management Plan. She noted that this process began in May 2016 and that consistency reviews were actually due on this day. She mentioned that they are looking forward to finally having a plan in place so they can move forward with management guidance for the Bear River. Vernon explained that the Division of Forestry, Fire and State Lands manages the bed of the Bear River and other sovereign lands in Utah (navigable bodies of water at the time of statehood). They are required to manage these lands under multiple uses. They had not previously had a management plan for the Bear River, but are now moving forward with the plan. She suggested that they would appreciate comments on this plan as it is implemented.

Vernon explained that they are taking a comprehensive look at the range of resources on the Bear River so they can get an idea of what they are working with. They will be classifying the sovereign lands into management classes per state statute. They are working to streamline the permitting and application process. If it is determined that an applicant's request is in an allowable area, all they have to do is fill out their application, pay a small fee and be done. They are working with best management practices to make wise decisions on projects to be implemented on the river. Vernon noted that they reached out to adjacent landowners and concerned citizens about what needs to be done along the river. They also identified additional issues to address. They will make a request to the legislature for the necessary funds to fix problems, remove hazards and improve water quality. They desire to have a positive impact on the river and manage for a range of uses.

Vernon noted that they hired some consultants and engineering firms to help and also put together a planning team comprised of natural resources, environmental quality and other stakeholders that had intimate knowledge on the river. Their input was very valuable. They also held several public meetings during this process. Vernon explained that they developed different land classifications along the river and showed maps of those areas. She emphasized that the plan is not static and could be amended as needed. She noted that information on this plan is available on their website (forestry.utah.gov) including a pdf document of the plan, an ESRI story map showing the classifications and a GIS spatial data viewer.

In answer to a question about permit fees, Laura Ault explained that the permit fee structure had not been updated since the early 90s. As part of this effort, they approached the legislature and were successful in significantly lowering a number of the fees. All application fees are now \$50 for most things. She noted that the new fee schedule should be coming out soon via postcard to those living near sovereign waters. She also made a request for those who have structures on the river that have not been permitted to go in and get a permit. This will help them learn of additional structures on the river that they may not be aware of and assist in future permitting. Vernon's presentation is included in Appendix E.

The Commission then took a short break.

VI. Records & Public Involvement Committee report – Commissioner Teichert asked Beth Callaway to make this report. Callaway mentioned that a handout was shared outlining USGS activities, including the 2018 water year agreement. There will be a 1.6 percent cost increase for 2018 and a possible 1.5 percent increase the following year. USGS is moving away from their old data base from the 1980s and will be implementing a new one nationwide. The committee then heard a presentation which was an overview of a proposal to implement floating solar powered platforms that will monitor water quality and weather data at Bear Lake, including evaporation. Some of the parameters for water quality that will be tested include depth, water temperature, pH, dissolved oxygen, turbidity and total algae. The weather related parameters that will be collected include wind speed, barometric pressure, air temperature and relative humidity. Callaway noted that the Water Quality Committee had met the previous week and is in support of this five-year effort. A contract for a new USGS gage on the Bear River has been signed. There will be a 50 percent cost share, of which \$8,000 would be for the first year.

Callaway reported that a question was raised by David Cottle about considering tying weather data together for wind shear safety precautions on Bear Lake. She also shared a report that the real time data posted on the Bear River Commission's website is provisional and that USGS has corrected data on their site. The water quality agencies agreed to continue the cost sharing program for

stream gages. There were no changes made to a list of stream gages for 2017 to go into the next biennial report. As for new/anticipated real time data stations, it was reported that all Upper Division Utah stations are online. There are two new gages in the Upper Division, none in the Wyoming portion of the Central Division, and one new station in the Idaho Central Division near Rainbow Canal.

Callaway reported that Don Barnett recapped the tour of the Central Division that occurred in July 2017, and the committee agreed to support a 2018 summer tour for the Lower Division around Bear Lake. He also discussed the 20-year Compact Review. The 19th Biennial Report had been published and put on the website and Barnett requested data for the 2017 chapter of the 20th Biennial Report.

Callaway mentioned that the "About" section on the Commission's website needed to be finished and pictures added. There had been no changes on the WIS website, but the water quality agencies were considering adding more data types.

There were some publications of interest shared by Jack Barnett, including a copy of Wyoming's original Compact legislation and additional copies of the Bear River Compact.

VII. Operations Committee report – Commissioner Spackman reported that the Operations Committee had reviewed some of the water quantity numbers. He noted that in the main stem of the Bear River at the State Line gage the flows were approximately 140 percent of average. There were similar percentages in many of the other drainages which is a benefit to everyone. Bear Lake nearly filled. Spackman reported that there was no regulation in any of the divisions. About the first of August the flow triggers were reached in the Central Division and the states started to call in and coordinate with the Engineer-Manager, but because Wyoming never diverted its full allocation above Idaho there was never a reason for allocation.

Spackman noted that there was currently about 1400 cfs flowing out of Bear Lake to fill Alexander. The targeted elevation for outflows this winter is 1100 cfs from the Outlet and flows into the lake through the Rainbow Canal are at 300 cfs, almost double the normal flow. PacifiCorp is targeting an elevation of 5918 ft. at Bear Lake on April 1st. The Operations Committee also discussed some activities in the various states, including the potential construction of small reservoirs in Wyoming which would fill with the Compact Storage allocations.

Connely Baldwin then reported on PacifiCorp operations (see his handout in Appendix F). He shared a few highlights, noting that the Rainbow Inlet Canal discharge and the Bear Lake net runoff were both approximately 270 percent of normal, which is pretty consistent with reported stream flows. Bear Lake reached a high elevation of 5,922.32 ft., just 1.3 ft. from full or 93 percent of the maximum possible. Baldwin reviewed some of the operational notes in his handout. He noted that he had included in his handout some graphs comparing 2017 to 2011 in Bear Lake elevations and in flows in Rainbow Canal and Bear Lake Outlet Canal.

Commissioner Spackman asked Baldwin about a presentation he had made at the previous Commission meeting regarding a plan that PacifiCorp was proposing for establishing spinning reserves and wondered if he was going to address this topic. Baldwin offered an update on this subject. He said that the proposed Soda spinning reserve was moving forward. At a recent public meeting, they changed from their original intention of acquiring in fee ownership the lands that would be inundated with the typical previous target maximum flow of 1500 cfs up to the area that would be inundated with 2500 cfs as a target maximum flow. Based on feedback from meetings

with landowners, they now plan to acquire these areas by easement and are updating the draft easement language. There are associated efforts to potentially increase Bear Lake storage as well. PacifiCorp has had some discussions with the states and given them updates on their plans. They have not requested any changes to the flood control target elevations. Resolution of issues did not come to pass in time and negotiations with the irrigators didn't result in the agreements needed to capture this year's high lake levels, but they are proceeding forward with these ideas.

Spackman asked Baldwin if he could tell him whether PacifiCorp had acquired any of those flood easements yet. Baldwin replied that they hadn't, but they are preparing the easement language and getting ready to make some offers soon, probably within the next month.

VIII. Water Quality Committee report – Jim Harris introduced himself as the new Assistant Director for the Utah Division of Water Quality following the retirement of Walt Baker and some reorganization within their Division. Harris reported on the Water Quality Committee meeting that was held the previous week. The meeting began with a report from Don Barnett regarding the bountiful water year. Also the Idaho DEQ explained that the high water was very good for water quality. There were a number of water quality projects that were ongoing. Idaho had completed over 100 water quality related projects as part of the PacifiCorp license mitigation. A phase one restoration has been completed at Logan River involving agricultural projects, recreational projects and residential projects, and they will start a second phase in 2018. USGS reported on the various gaging stations, as well as the buoy platforms which not only produce good water quality data, but also are helpful in developing models. Harris noted some programmatic updates from the various states. He reported that Idaho recently had a number of items being considered by their board including developing new standards for selenium and fish tissue and a better way of assessing copper. They are also working on getting the state primacy for their Idaho pollution discharge elimination system from EPA. Wyoming is still working on a water quality standard for ammonia and the lake reservoir water quality criteria for nutrients in the Wyoming basin. This is currently being reviewed by an outside third party. Harris explained that in Utah he had been working on the harmful algal bloom response and human health protection, including the necessary testing and notification for public safety. He noted also that Utah had just hired a facilitator to assist in forming a steering committee for the Utah Lake Commission to implement a science panel process and hopefully come up with standards that are suitable for Utah Lake, which has kind of a unique nature as well as a lot of challenges facing it. They will be working on this initiative for the next several years. In addition, they will be revisiting the Great Salt Lake strategy to finish future phases of that for wetlands, nutrients and recreation criteria, and also to expand storm water strategy. He explained that those are some of the high level tasks he will be focusing on in his new position.

IX. Management Committee report – Pat Tyrrell reported that many of the topics the Management Committee had discussed the previous evening had already been covered in the Commission meeting. He noted in particular the budget situation that exists as a result of the efforts taking place in the midst of the 20-year Review. This will most likely result in an increase in dues the following year. The Committee also wanted to recognize those involved in advertising, running and managing the details of the 20-year Review and commended them on the fine job they had done.

X. Engineer-Manager's report – Don Barnett noted that everything he had had already been discussed in the meeting.

XI. State Reports – Wyoming – Commissioner Tyrrell reported that in Wyoming they hope they have seen a bottoming out of what has been a poor revenue picture for the last two years. As a state

very dependent on mineral taxation revenue, with the price of gas and oil down and its supplanting of coal which is also down, they have been several hundred million dollars short of a flat budget in revenues. This has resulted in quite a few cuts in budget and staffing of the various agencies. Tyrrell commended those who stood up to the task and followed through on the important work that needed to be done, even if it required longer hours. He noted that their offices have been moved around in the Herschler Building while construction has been going on and he believes it may be another year and a half to two years before they have a permanent home in Cheyenne.

Tyrrell noted the lawsuit that had been ongoing for about 10 years between Wyoming and Montana with respect to Yellowstone. That particular suit is near completion. They are commenting on a proposed final decree by the Special Master. Those states will make determinations as to whether they take exception to any part of that report in front of the full U.S. Supreme Court. It may be necessary to have another hearing back there, but if not, there will be some agreed-to decree that they will operate under going forward.

Regarding the water supply in Wyoming this year, they were full of water in the Bear River and the Green River. There were enormous flooding issues in the Bighorn system on the other side of the Wind River Mountains. They ended up in mid-April with approximately 200 percent normal snowpack up and down the mountains. This was the most runoff they have seen in decades in certain areas. A major irrigation canal was destroyed, but rebuilt in good time. The only part of Wyoming that was dry was a little bit in the Black Hills.

Tyrrell noted another technical topic that has been getting a little more traction in Wyoming. It involves two parts of Wyoming that have wild and scenic river designations. One is the Clarks Fork of the Yellowstone which comes out of the eastern part of Yellowstone and flows up into Montana. Though the area sees very little use, there is a canyon section that has a wild and scenic designation on it done under the former governor. While it has a permit and is a federal reserved right, it has yet to be quantified under state processes. It is still a matter of question when that quantification process will take place. Now Wyoming is dealing with the Craig Thomas Legacy Act of 2008 that set aside about 23-26 segments in the Snake River proper which drain to Idaho and its tributaries in Wyoming. They are for a variety of purposes – wild, scenic and recreational. They are just preparing to sit down with the Park Service and Forest Service to determine and identify how those rights will ultimately be quantified. Tyrrell believes it will be a number of years before they are quantified or even adjudicated, but they will start that process with some meetings this winter.

In answer to a question regarding cloud seeding, Tyrrell reported on the ten-year weather modification studies undertaken by their water development office at a cost of about \$12 million which was completed two years earlier. They did see a 5-15 percent increase and believe with some level of confidence that there is a positive impact from weather modification. Because of that, Wyoming is working to move forward in a concerted effort with Utah and Colorado to seed especially those drainages that will put additional water into the Colorado River. There have been a few recent years where Bear Lake was near historic highs with a lot of water in Bear River, but with the Colorado River it has been since about 1999 that Lake Mead and Lake Powell were full. So there is a very strong interest in that basin to improve the water situation. Tyrrell noted that there have been questions regarding the funding of these weather modification efforts between the states regarding the percentages being funded by the states versus outside entities. Wyoming is making an effort to get on common footing with Colorado and Utah on these contribution percentages.

XI. State Reports – Idaho – Commissioner Spackman reported that he had high hopes that the State of Idaho will this year initiate an adjudication of the water rights in the Bear River, and he hopes to report positively after the upcoming legislative session.

XI. State Reports – Utah – As Commissioner Millis was not able to give Utah's state report, he asked Todd Adams to report on three particular items. Adams noted that about two years earlier, Millis had made a report to the Commission regarding an audit that was done by the legislative auditor on Utah's water data component. They are currently working through all of those issues with the Auditor General on an audit resolution and response. They continue to work on it and the data is coming in a lot better. The data that were collected for 2016 showed marked improvements from the water users and those who are submitting the report, which is good news. The second item the Division keeps working on is their Bear River Development Act. They are still studying reservoir sites and looking at potential right-of-ways and reservoir components. They have a Bear River Management Committee that meets regularly and they are still discussing the potential there. The third item had to do with a water strategy group. They have about 41 water interest experts that the Governor commissioned to do a state water strategy. That strategy was released in July and the Governor is reviewing it. It is likely that there will be something in his potential budget this year to address issues on the water strategy.

XII. Other / Public Comment

A. Activities of the Bear River Water Users Association – Carly Burton mentioned a few items, the first being the 20-year Compact Review. He noted that the Bear River Water Users Association made public comment at the Logan meeting and they went on record to oppose any change or modification to the Compact as the Compact has served the water users in the three states very well and has achieved the goals listed in the Compact. They will also submit written comment.

Burton noted that the Utah Department of Forestry, Fire and State Lands had issued its Record of Decision and final Bear River Comprehensive Management Plan. The Association had presented oral and written comments on the draft plan and stressed the importance of agricultural in the local economies in Cache County and Box Elder County. The Association is concerned about the permitting process and will negotiate in good faith with State Lands as they address issues and concerns.

Burton reported that the Association has had numerous communications with PacifiCorp regarding its future operating objectives on the Bear River and Bear Lake. He noted that the Association supports PacifiCorp in many of their efforts, but does disagree with PacifiCorp over the ownership and use of any additional storage in Bear Lake. They believe that additional storage can only be made available to and used by the current contract holders, which position is supported by the Bear Lake Settlement Agreement. The Association also supports new ideas to provide additional water supplies, but feels that any proposed modification of past operating practices must be accomplished in a manner that will not alter or otherwise diminish the existing irrigation contract deliveries.

B. Bear Lake Watch – Claudia Cottle from Bear Lake Watch addressed the Commission and shared a couple of photos of Bear Lake. The photos emphasized the importance of water levels at Bear Lake and the difference it makes on the lake and its shoreline and function.

C. Other – There were no other items to be brought before the Commission.

XIII. Next Commission meeting (Tuesday, April 17, 2018) – Chairwoman Williams announced that the date of the next Commission meeting would be April 17, 2018. It will be the annual meeting of the Commission.

The Commission was then adjourned at 3:35 p.m.

ATTENDANCE ROSTER

BEAR RIVER COMMISSION REGULAR MEETING

Utah Department of Natural Resources
Salt Lake City, Utah
November 21, 2017

IDAHO COMMISSIONERS

Gary Spackman
Curtis Stoddard

WYOMING COMMISSIONERS

Pat Tyrrell
Adrian Hunolt
Tim Teichert
Kevin Payne (Alternate)

FEDERAL CHAIR

Jody Williams

OTHERS IN ATTENDANCE

IDAHO

James Cefalo, Department of Water Resources
Liz Cresto, Department of Water Resources
Jeff Peppersack, Department of Water Resources
Josh Hanks, Water Master

UTAH

Jim Harris, Division of Water Quality
Boyd Clayton, Division of Water Rights
Will Atkin, Division of Water Rights
Ben Anderson, Division of Water Rights
Randy Staker, Division of Water Resources
Feng Pan, Division of Water Resources
Ron Hoffman, Water Commissioner

WYOMING

Beth Callaway, State Engineer's Office
Mike Johnson, State Engineer's Office
Travis McInnis, State Engineer's Office
Ethan Overton, State Engineer's Office

OTHERS

Laura Vernon, UT Div. of Forestry, Fire and State Lands
Laura Ault, UT Div. of Forestry, Fire and State Lands
Connely Baldwin, PacifiCorp Energy
Buffi Morris, PacifiCorp Energy
John Mabey, PacifiCorp Counsel
Cory Angeroth, U.S. Geological Survey
Ben Radcliffe, U.S. Bureau of Reclamation

UTAH COMMISSIONERS

Todd Adams (alternate for Eric Millis)
Charles Holmgren
Blair Francis
Joe Larsen (Alternate)

ENGINEER-MANAGER & STAFF

Don Barnett
Donna Keeler

Carly Burton, Bear River Water Users
Darin McFarland, Bear River Canal Company
Curtis Marble, Bear River Canal Company
Claudia Cottle, Bear Lake Watch
David Cottle, Bear Lake Watch
Jeannie Simmonds, Cache Water District
Jim DeRito, Trout Unlimited
Joanna Endter-Wada, Utah State University
Clint Carney, Utah State University
Ann Neville, The Nature Conservancy
Marcelle Shoop, National Audubon Society



BEAR RIVER COMMISSION REGULAR MEETINGS

November 13 & 21, 2017

Water Quality Committee Meeting

**Utah Department of Environmental Quality
195 North 1950 West
Salt Lake City, Utah**

All Other Meetings

**Utah Department of Natural Resources
1594 West North Temple
Salt Lake City, UT**

COMMISSION AND ASSOCIATED MEETINGS

November 13

| | | |
|-----------|--|---------|
| 9:00 a.m. | Water Quality Committee Meeting – Red Rock Conference Room | Burnell |
|-----------|--|---------|

November 21

| | | |
|------------|---|-------------------------|
| 9:00 a.m. | Records & Public Involvement Committee Meeting – Room 314 | Stoddard |
| 10:00 a.m. | Operations Committee Meeting – Room 314 | Francis |
| 11:30 p.m. | Informal Meeting of Commission – Room 314 | D. Barnett |
| 11:35 p.m. | State Caucuses and Lunch | Spackman/Millis/Tyrrell |
| 1:30 p.m. | Commission Meeting – Main Floor Auditorium (Rms. 1040/1050) | Williams |

APPROVED AGENDA
REGULAR COMMISSION MEETING

November 21, 2017

Convene Meeting: 1:30 p.m.

Chair: Jody Williams

- | | | |
|------|---|--------------|
| I. | Call to order | Williams |
| | A. Welcome of guests and overview of meeting | |
| | B. Approval of agenda | |
| II. | Approval of minutes of last Commission meeting (April 18, 2017) | Williams |
| III. | Reports of Secretary and Treasurer | Adams/Staker |
| | A. 2017 budget closeout | |
| | B. 2018 expenditures to date | |
| | C. Amendment to 2018 budget | |
| | D. Other | |
| IV. | 20-year Compact Review | Barnett |
| V. | Utah's Bear River Comprehensive Management Plan | Laura Vernon |

BREAK

- | | | |
|-------|---|------------|
| VI. | Records & Public Involvement Committee report | Teichert |
| VII. | Operations Committee report | |
| | A. Committee meeting | Spackman |
| | B. Operations in 2017 | Baldwin |
| | C. PacifiCorp operations | Baldwin |
| VIII. | Water Quality Committee report | Jim Harris |
| IX. | Management Committee report | Tyrrell |
| X. | Engineer-Manager's report | Barnett |
| XI. | State reports | |
| | A. Wyoming | Tyrrell |
| | B. Idaho | Spackman |
| | C. Utah | Adams |
| XII. | Other / Public comment | Williams |
| | A. Activities of the Bear River Water Users Association | Burton |
| | B. Bear Lake Watch | Cottle |
| | C. Other | |
| XIII. | Next Commission meeting (Tuesday, April 17, 2018) | Williams |

Anticipated adjournment: 4:00 p.m.

BEAR RIVER COMMISSION

STATEMENT OF INCOME AND EXPENDITURES

FOR THE PERIOD OF July 1, 2016 TO June 30, 2017

| INCOME | CASH ON HAND | OTHER INCOME | FROM STATES | INCOME |
|-----------------------|-----------------|-----------------|----------------|------------|
| Cash Balance 07-01-16 | 109,238.53 | | | 109,238.53 |
| State of Idaho | | | 40,000.00 | 40,000.00 |
| State of Utah | | | 40,000.00 | 40,000.00 |
| State of Wyoming | | | 40,000.00 | 40,000.00 |
| Water Quality | | 5,468.00 | | 5,468.00 |
| Interest on Savings | | 1,540.49 | | 1,540.49 |
| TOTAL INCOME TO | | | | |
| 30-Jun-17 | 109,238.53 | 7,008.49 | 120,000.00 | 236,247.02 |

DEDUCT OPERATING EXPENSES

| | APPROVED BUDGET | UNEXPENDED BALANCE | EXPENDITURES TO DATE |
|-----------------------------|--------------------|-----------------------|-------------------------|
| Stream Gaging/USGS Contract | 40,755.00 | - | 40,755.00 |
| SUBTOTAL | 40,755.00 | - | 40,755.00 |
| EXPENDED THROUGH COMMISSION | | | |
| Personal Services BIWC | 64,350.00 | - | 64,350.00 |
| Travel (Eng-Mgr) | 1,200.00 | (291.18) | 1,491.18 |
| Office Expenses | 1,600.00 | 1,025.39 | 574.61 |
| Printing Biennial Report | 1,000.00 | 1,000.00 | |
| Treasurer Bond & Audit | 1,400.00 | 1,300.00 | 100.00 |
| Printing | 1,600.00 | 1,085.50 | 514.50 |
| Realtime Web Hosting | 8,400.00 | 1,184.01 | 7,215.99 |
| Clerical | 8,340.00 | (2,322.49) | 10,662.49 |
| Tour | - | - | |
| Contingency | 2,000.00 | 2,000.00 | |
| SUBTOTAL | 89,890.00 | 4,981.23 | 84,908.77 |
| TOTAL EXPENSES | 130,645.00 | 4,981.23 | 125,663.77 |
| CASH BALANCE AS OF 06/30/17 | | | 110,583.25 |

BEAR RIVER COMMISSION
DETAILS OF EXPENDITURES

FOR PERIOD ENDING June 30, 2017

| | | |
|-----|-------------------|-----------|
| 832 | VOID | - |
| 833 | BIWC | 10,725.00 |
| 834 | VOID | - |
| | Bank Service Fees | 27.00 |
| 835 | BIWC | 6,126.25 |
| 836 | USGS | 40,755.00 |
| 837 | STONEFLY | 1,800.00 |
| 838 | BIWC | 6,421.15 |
| 839 | BIWC | 5,559.13 |
| 840 | BIWC | 5,563.61 |
| 841 | STONEFLY | 1,800.00 |
| 842 | BIWC | 14,784.00 |
| 843 | C N A SURETY | 100.00 |
| 844 | STONEFLY | 15.99 |
| 845 | STONEFLY | 1,800.00 |
| 846 | BIWC | 11,635.07 |
| 847 | VOID | - |
| 848 | BIWC | 12,898.59 |
| 849 | STONEFLY | 1,800.00 |
| 850 | BIWC | 241.84 |
| 851 | BIWC | 3,611.14 |

125,663.77

BANK RECONCILIATION

| | |
|--|------------|
| Cash in Bank per Statement 06/30/17 | (3,689.14) |
| Plus: Intransit Deposits | |
| Less: Outstanding Checks | |
| Total Cash in Bank | (3,689.14) |
| Plus: Savings Account-Utah State Treasurer | 114,272.39 |
| CASH BALANCE AS OF 06/30/17 | 110,583.25 |

BEAR RIVER COMMISSION

STATEMENT OF INCOME AND EXPENDITURES

FOR THE PERIOD OF July 1, 2017 to November 15, 2017

| INCOME | CASH ON HAND | OTHER INCOME | FROM STATES | INCOME |
|-----------------------|-----------------|-----------------|----------------|------------|
| Cash Balance 07-01-17 | 110,583.25 | | | 110,583.25 |
| State of Idaho | | | 40,000.00 | 40,000.00 |
| State of Utah | | | 40,000.00 | 40,000.00 |
| State of Wyoming | | | 40,000.00 | 40,000.00 |
| Water Quality | | 2,751.00 | | 2,751.00 |
| Interest on Savings | | 848.04 | | 848.04 |
| TOTAL INCOME TO | | | | |
| 26-May-17 | 110,583.25 | 3,599.04 | 120,000.00 | 234,182.29 |

DEDUCT OPERATING EXPENSES

| | APPROVED BUDGET | UNEXPENDED BALANCE | EXPENDITURES TO DATE |
|---------------------------------|--------------------|-----------------------|-------------------------|
| Stream Gaging/USGS Contract | 41,270.00 | - | 41,270.00 |
| SUBTOTAL | 41,270.00 | - | 41,270.00 |
| EXPENDED THROUGH COMMISSION | | | |
| Personal Services BIWC | 65,640.00 | 38,290.00 | 27,350.00 |
| Travel (Eng-Mgr) | 1,200.00 | 1,095.06 | 104.94 |
| Office Expenses | 1,600.00 | 821.85 | 778.15 |
| Printing Biennial Report | 1,000.00 | 1,000.00 | |
| Treasurer Bond & Audit | 1,400.00 | 1,400.00 | |
| Printing | 1,600.00 | 1,484.90 | 115.10 |
| Realtime Web Hosting | 8,400.00 | 6,600.00 | 1,800.00 |
| Clerical | 8,510.00 | 4,095.44 | 4,414.56 |
| Tour | 2,500.00 | 4.51 | 2,495.49 |
| Contingency | 2,000.00 | 2,000.00 | |
| SUBTOTAL | 93,850.00 | 56,791.76 | 37,058.24 |
| TOTAL EXPENSES* | 135,120.00 | 56,791.76 | 78,328.24 |
| CASH BALANCE AS OF 11/15/17 | | | 155,854.05 |

* This amount does not reflect anticipated 20-year Compact Review expenses. The total amount spent in this effort will be accounted for in the April 2018 expense report.

BEAR RIVER COMMISSION

DETAILS OF EXPENDITURES

FOR PERIOD ENDING November 15, 2017

| | | |
|-----|-------------------------|-----------|
| 852 | VOID | |
| 853 | USGS | 41,270.00 |
| 854 | BIWC | 10,940.00 |
| 855 | STONEFLY | 1,800.00 |
| 856 | BOX ELDER NEWS JOURNAL | 32.65 |
| 857 | CARIBOU COUNTY SUN | 36.68 |
| 858 | VOID | |
| 859 | THE IDAHO ENTERPRISE | 38.03 |
| 860 | KEMMERER GAZETTE | 40.50 |
| 861 | SVI MEDIA | 57.00 |
| 862 | UINTA COUNTY HERALD | 76.00 |
| 863 | BIWC | 7,083.53 |
| 864 | CACHE VALLEY PUBLISHING | 182.49 |
| 865 | UTAH MEDIA GROUP | 60.44 |
| 866 | STANDARD EXAMINER | 90.25 |
| 867 | BIWC | 16,620.67 |

78,328.24

BANK RECONCILIATION

| | |
|--|------------|
| Cash in Bank per Statement 11/15/17 | 733.62 |
| Plus: Intransit Deposits | |
| Less: Outstanding Checks | |
| Total Cash in Bank | 733.62 |
| Plus: Savings Account-Utah State Treasurer | 155,120.43 |
| CASH BALANCE AS OF 11/15/17 | 155,854.05 |

Status

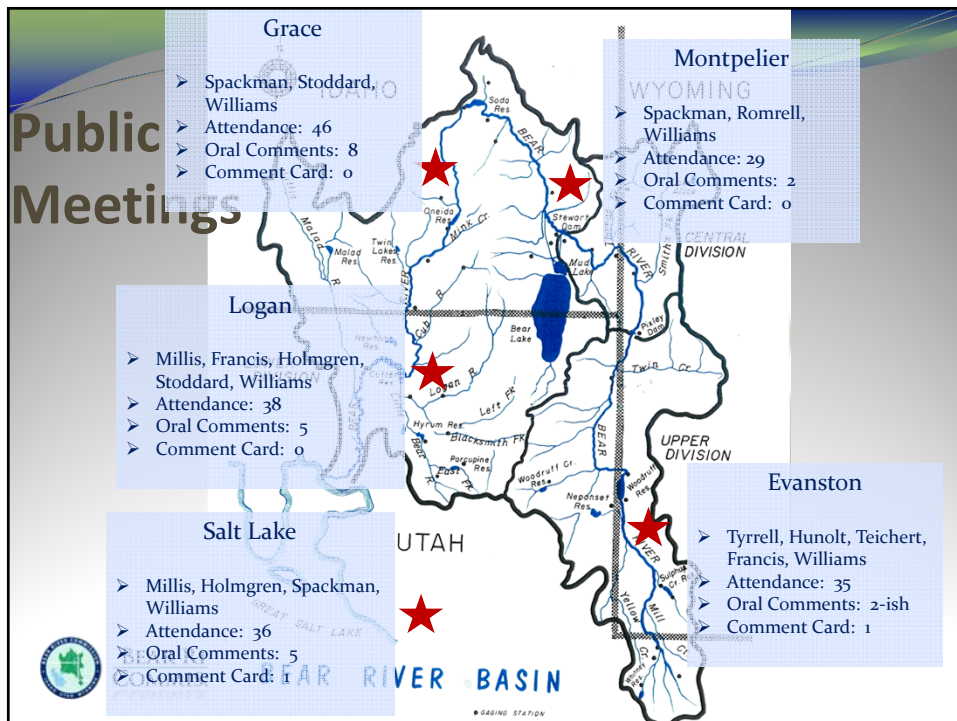
20-Year Compact Review

Don Barnett, Engineer-Manager
Bear River Commission

November 21, 2017

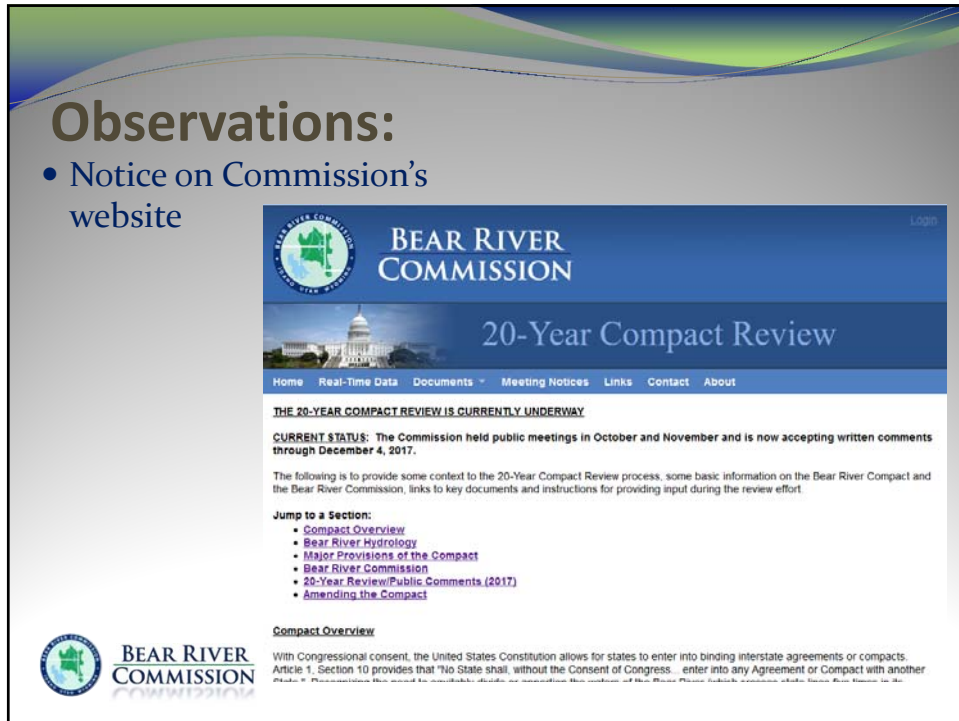


BEAR RIVER
COMMISSION



Observations:

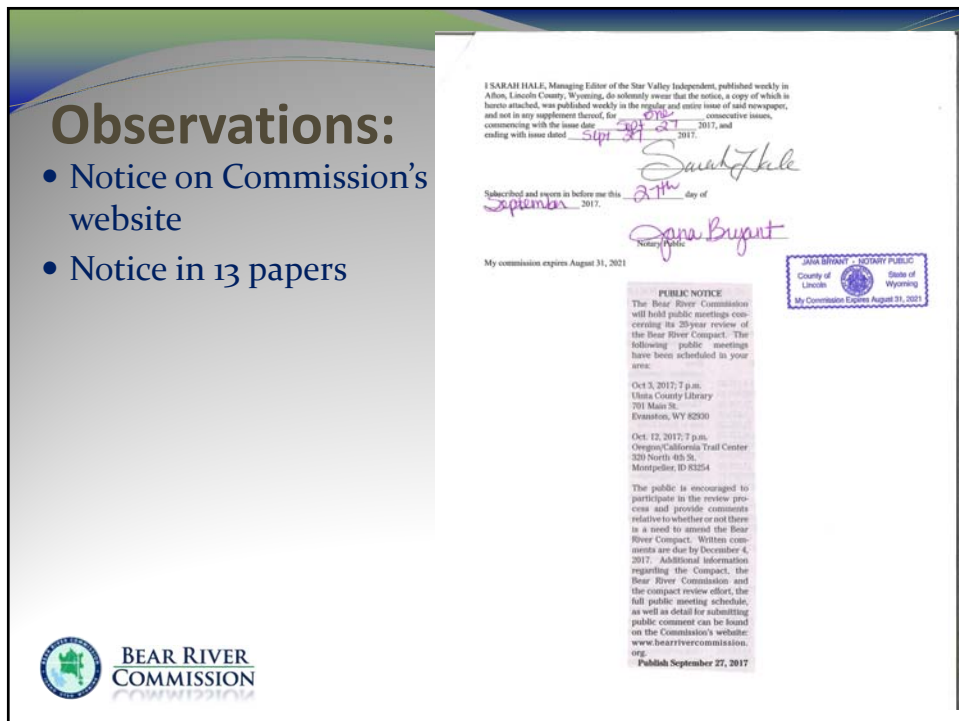
- Notice on Commission's website



The screenshot shows the Bear River Commission website. The header includes the logo and the text "BEAR RIVER COMMISSION". Below the header is a navigation bar with links: Home, Real-Time Data, Documents, Meeting Notices, Links, Contact, and About. The main content area is titled "20-Year Compact Review" and states "THE 20-YEAR COMPACT REVIEW IS CURRENTLY UNDERWAY". It provides information about public meetings held in October and November, and now accepting written comments through December 4, 2017. A section titled "Jump to a Section:" lists links for Compact Overview, Bear River Hydrology, Major Provisions of the Compact, Bear River Commission, 20-Year Review/Public Comments (2017), and Amending the Compact. At the bottom, there is a "Compact Overview" section with a paragraph about the United States Constitution and interstate agreements.

Observations:

- Notice on Commission's website
- Notice in 13 papers



The screenshot shows a public notice document from the Bear River Commission. The document is titled "PUBLIC NOTICE" and states that the commission will hold public meetings concerning its 20-year review of the Bear River Compact. It lists the following public meetings: Oct 3, 2017, 7 p.m. at Uinta County Library, 701 Main St., Evanston, WY 82930; and Oct 12, 2017, 7 p.m. at Oregon/California Trail Center, 320 North 4th St., Montpelier, ID 83254. The document also includes a section for "Subscribed and sworn to before me this" with a date of September 27, 2017, and a signature of Sarah Hale. A notary seal for Sarah Hale, Notary Public, State of Wyoming, is visible. The document concludes with the text "My commission expires August 31, 2021" and "Publish September 27, 2017".

| Paper | Location-coverage | Due | Published | Cost | Notes | Meetings Noticed/ Week |
|---|---|---------------------------------------|--|-----------------------|---|------------------------------|
| Sent 10-16-17 / 10-26 Salt Lake Tribune | SLC - Utah | 10/18 by 12:00 | BOTH PAPERS Daily 10/19 | \$60.44 | Leona - naclegal@utahmediagroup.com PR: newsroom@sltrib.com | Salt Lake 10/16 |
| Deseret News | SLC - Utah | Fri for Sun/Mon Noon - day prior | Daily | | PR: news@deseretnews.com or news@ksl.com | Salt Lake 10/16 |
| Sent 9-28-17 / 10-4 Standard Examiner | Ogden Northern Utah | 10/2 by 12:00 Noon - day prior | Daily 10/3 | \$90.25 | Monica (801-625-4302) legals@standard.net PR: ghalling@standard.net | Logan, Salt Lake 9/25 |
| Sent 9-20-17 / 10-4 Box Elder News Journal | Brigham City UT | 9/25 Monday by noon | Once a week on Wed 9/27 | \$32.65 | Erin - legals@benewsjournal.com PR: editor@benewsjournal.com | Logan, Salt Lake 9/25 |
| Sent 9-20-17 / 10-4 Herald Journal | Cache Valley UT Northern UT Franklin Co. ID | 9/21 2:00 - day prior | ALL THREE PAPERS Daily-Tues through Sun 9/28 | \$49.74 | Laurie - ljackson@hjnews.com PR: hjnews@hjnews.com | Logan, Grace 9/25 |
| Sent 9-20-17 / 10-4 Tremonton Leader | Tremonton UT | 9/21 Thurs by 5:00 | Once a week on Wed 9/27 | \$51.63 | Laurie - ljackson@hjnews.com PR: jdemos@tremontonleader.com | Logan, Grace 9/25 |
| Sent 9-20-17 / 10-4 Preston Citizen | Preston ID | 9/21 Thurs by 5:00 | Once a week on Wed 9/27 | \$39.70 | Laurie - ljackson@hjnews.com PR: nseamons@prestoncitizen.com | Logan, Grace 9/25 |
| Sent 9-20-17 / 10-4 The Idaho Enterprise | Malad City ID Oneida County | 9/22 Friday by 4:00 | Once a week on Thurs 9/28 | \$38.03 | Helen - enterprise@atcnet.net PR: newsdesk1@atcnet.net | Logan, Grace 9/25 |
| Sent 9-20-17 / 10-4 The News-Examiner | Montpelier ID | 9/21 Thurs by noon | Once a week on Wed 9/27 | \$41.42 | Janet - NF_legals@news-examiner.net PR Michelle: mhigley@news-examiner.net | Grace, Montpelier 9/25 |
| Sent 9-20-17 / 10-4 Caribou County Sun | Soda Springs ID | 9/25 Monday by noon | Once a week on Thurs 9/28 | \$36.68 | Kali - ccsun10@aol.com PR: ccsun10@aol.com | Grace, Montpelier 9/25 |
| Sent 9-20-17 / 10-4 Idaho State Journal | Pocatello ID SE Idaho | 9/22 5 days prior | Daily except Saturday and Monday 9/28 | \$50.55 AMEX | legals@journalnet.com (Suzie/Lori) PR Courtney: cjohanson@journalnet.com | Grace, Montpelier 9/25 |
| Sent 9-18-17 / 9-28 Uinta County Herald | Evanston WY Uinta County | Thurs for Tuesday 9/19 Tue for Fri | Comes out Tuesday and Friday 9/22 | \$76.00 | Kag Ellis - kelis@uintacountyherald.com PR Bryon: bglathar@uintacountyherald.com | Evanston, Montpelier 9/18 |
| Sent 9-18-17 / 9-28 Kemmerer Gazette | Kemmerer WY Lincoln County | 9/18 Monday by 3:00 | Once a week on Thurs 9/21 | \$40.50 | Rose - rcpallen@kemmerergazette.com PR Teresa: tdavis@kemmerergazette.com | Evanston, Montpelier 9/18 |
| Sent 9-20-17 / 9-28 Star Valley Independent | After WY | 9/25 Monday by noon | Once a week on Wed 9/27 | \$57.00 | joshh@svnews.com PR Dan Duckstadter: svidan@silverstar.com | Evanston, Montpelier 9/18 |
| | | | | Total \$664.59 | | |

Evanston - Oct. 3
Logan - Oct. 10
Grace - Oct. 11
Montpelier - Oct. 12
Salt Lake - Nov. 2

Observations:

- Notice on Commission's website
- Notice in 13 papers
- 20 press releases



BEAR RIVER COMMISSION

Contact: Dan Barker
 Phone: (801) 292-4662
 100 West 200 South, Suite 101
 Bountiful, UT 84010
 www.bearrivercommission.org

FOR IMMEDIATE RELEASE

Bear River Commission Seeks Public Input for 20-Year Compact Review
Public Meetings to be held in October and November.

Bountiful, UT, September 19, 2017: Today the Bear River Commission announced that it will hold a series of public meetings in conjunction with its 20-year review of the Bear River Compact. The Bear River Compact created the Bear River Commission and is the chief document which controls the allocation and distribution of waters of the Bear River between the States of Idaho, Utah and Wyoming. The following public meetings have been scheduled:

| | | | |
|--------------|--------------------|--------------------------------|----------------------|
| Oct 3, 7 pm | Evanston, WY | Uinta County Library | 701 Main Street |
| Oct 10, 7 pm | Logan, UT | Coeche County Admin. Bldg. | 179 N. Main Street |
| Oct 11, 7 pm | Grace, ID | Grace American Legion Hall | 105 N. 100 W. |
| Oct 12, 7 pm | Montpelier, ID | Oregon/California Trail Center | 320 N. 4th Street |
| Nov 2, 7 pm | Salt Lake City, UT | Utah DNR Building | 1894 W. North Temple |

(See the Commission's website for additional details)

Written comments are due by Monday, December 4, 2017. Whether or not people participate in the public meetings, they are encouraged to provide written comments. Additional information regarding the Compact, the Commission and this 20-year compact review effort, as well as information regarding the public meetings and how to participate in the process and

FOR RELEASE 10 A.M. MDT, SEPTEMBER 19, 2017

NOTE

Observations:

- Notice on Commission's website
- Notice in 13 papers
- 20 press releases
- 3 news articles



BEAR RIVER
COMMISSION

Caribou County Sun

Soda Springs, Caribou County, Idaho 83276 7th plus tax
Vol. 87, No. 3 © Copyright Thursday, October 19, 2017

Water Users Tell B.R. Commission No Need to Open Water Compact



MEMBERS OF the Bear River Commission held a public meeting for comments on whether to amend the Bear River Compact. Curtis Stoddard, Bear River Commission member, off camera, introduced the commission and staff, from left, Michael Holiday, Dept. of Water Resources, Don Barnett, commission engineer-manager, Jody Williams, federal chair, and Gary Spackman, director of the Idaho Dept. of Water Resources.

Observations:

- Notice on Commission's website
- Notice in 13 papers
- 20 press releases
- 3 news articles
- 184+ people attended, various interests, legislators, news media
- 100% of Commissioners to meetings
- 13 written comments...so far



BEAR RIVER
COMMISSION

Caribou County Sun

Soda Springs, Caribou County, Idaho 83276 7th plus tax
Vol. 87, No. 3 © Copyright Thursday, October 19, 2017

Water Users Tell B.R. Commission No Need to Open Water Compact



MEMBERS OF the Bear River Commission held a public meeting for comments on whether to amend the Bear River Compact. Curtis Stoddard, Bear River Commission member, off camera, introduced the commission and staff, from left, Michael Holiday, Dept. of Water Resources, Don Barnett, commission engineer-manager, Jody Williams, federal chair, and Gary Spackman, director of the Idaho Dept. of Water Resources.

Written Public Comments

In order to be considered timely, all written comments must be received at the Commission's office by **5:00 p.m. on Monday, December 4, 2017**. Written comments should be addressed to:

Bear River Commission
RE: 20-Year Compact Review
106 West 500 South, Suite 101
Bountiful, Utah 84010

Or via email to:

review@bearrivercommission.org



BEAR RIVER
COMMISSION



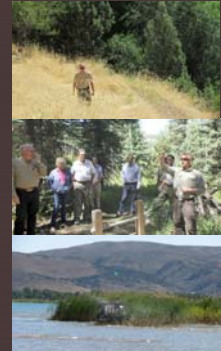
Bear River Comprehensive Management Plan

Utah Division of Forestry, Fire and State Lands



Why Forestry, Fire and State Lands?

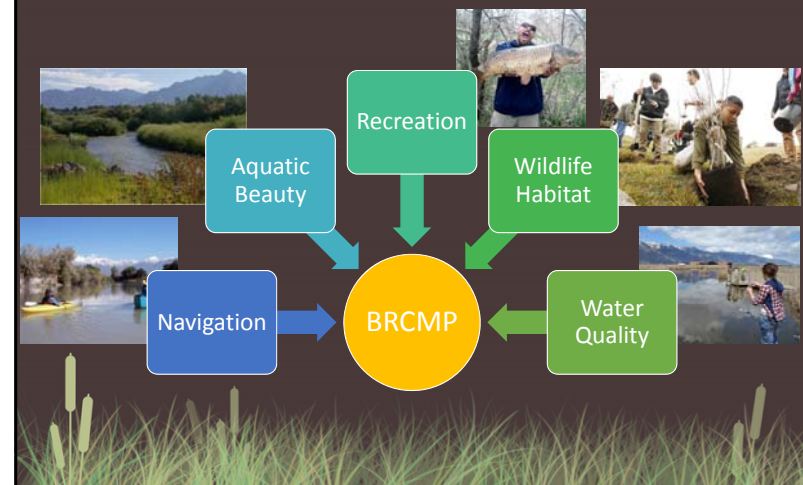
- 65A-1-4 Division of Forestry, Fire and State Lands -- Creation -- Power and authority.
(b) The division is the executive authority for the management of **sovereign lands**, and the state's mineral estates on lands other than school and institutional trust lands....
- 65A-2-1 Administration of state lands
...administer state lands using multiple-use, sustained-yield principles.
- R652-90-200 Scope (Sovereign Land Management Planning)
Management plans shall guide the implementation of stated management objectives and provide direction for land-use decisions and activities on sovereign lands.



Why a Bear River CMP?

- Assess sovereign land conditions
- Classify sovereign lands into management classes
- Streamline permitting and application processes
- Create an interactive system to illustrate management strategies & decisions
- Establish Best Management Practices for a range of projects
- Create a list of future potential projects and improvements

Multiple Frameworks



Project Team

• Forestry, Fire and State Lands

- Laura Ault, Sovereign Lands Program Manager
- Laura Vernon, Land Use Planner
- Matt Coombs, Sovereign Lands Coordinator

• Consultant Team

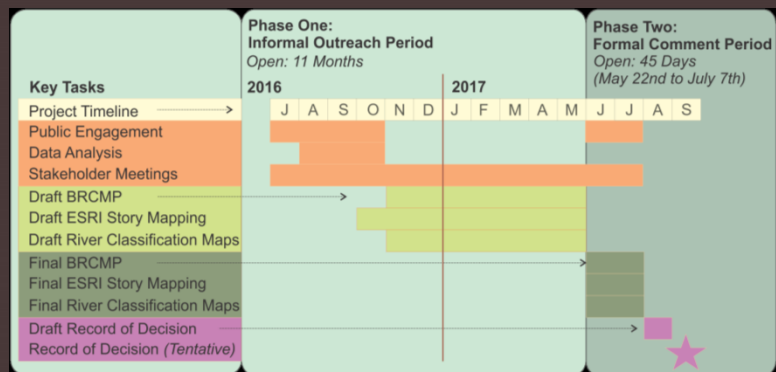
- SWCA Environmental Consultants
- CRSA
- Hansen, Allen and Luce



Planning Team

| First Name | Last Name | Representing | Title |
|------------|-----------|---|---|
| Todd | Adams | Utah Division of Water Resources | Deputy director |
| Mike | Allred | Utah Division of Water Quality | Watershed protection |
| Will | Atkin | Utah Division of Water Rights | Regional engineer |
| Laura | Ault | Utah Division of Forestry, Fire & State Lands | Sovereign lands program coordinator |
| Don | Barnett | Bear River Commission | Engineer-manager |
| Margie | Borecki | Utah State University Extension | Upper Bear River watershed coordinator |
| Clint | Brunson | Utah Division of Wildlife Resources | Aquatic habitat restoration biologist |
| Matt | Coombs | Utah Division of Forestry, Fire & State Lands | Sovereign lands coordinator |
| Zac | Covington | Bear River Association of Governments | Planner |
| Marisa | Egbert | Utah Division of Water Resources | Project manager |
| Chris | Hansen | State Historic Preservation Office | State Historic Preservation Office compliance, preservation |
| Bracken | Henderson | Utah Department of Agriculture and Food | Resource coordinator |
| Pam | Kramer | Utah Division of Wildlife Resources | Habitat biologist |
| Chris | Merritt | State Historic Preservation Office | Deputy antiquities coordinator |
| Chase | Pill | Utah Division of State Parks and Recreation | Assistant manager |
| Paul | Thompson | Utah Division of Wildlife Resources | Aquatics program manager |
| Laura | Vernon | Utah Division of Forestry, Fire & State Lands | Sovereign lands planner |

Planning Timeline



Public Involvement

Multiple Perspectives | Multiple Methods

Stakeholders

General Public

Counties

Municipalities

Stakeholder Groups

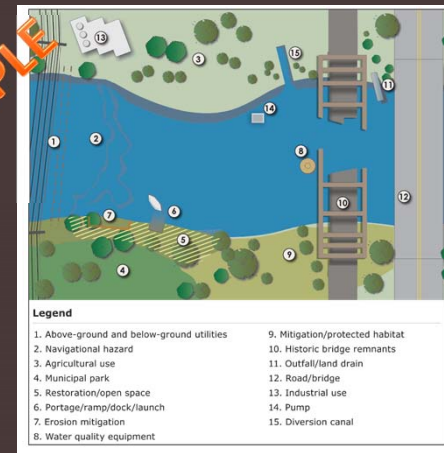
Open House Series



Sovereign Land Classifications

- o Class 1: Manage to protect existing resource use options
- o Class 2: Manage to protect potential resource use options
- o Class 3: Manage as open for consideration of use
- o Class 4: Manage for resource inventory and analysis (*Not Used*)
- o Class 5: Manage to protect potential resource preservation options
- o Class 6: Manage to protect existing resource preservation uses

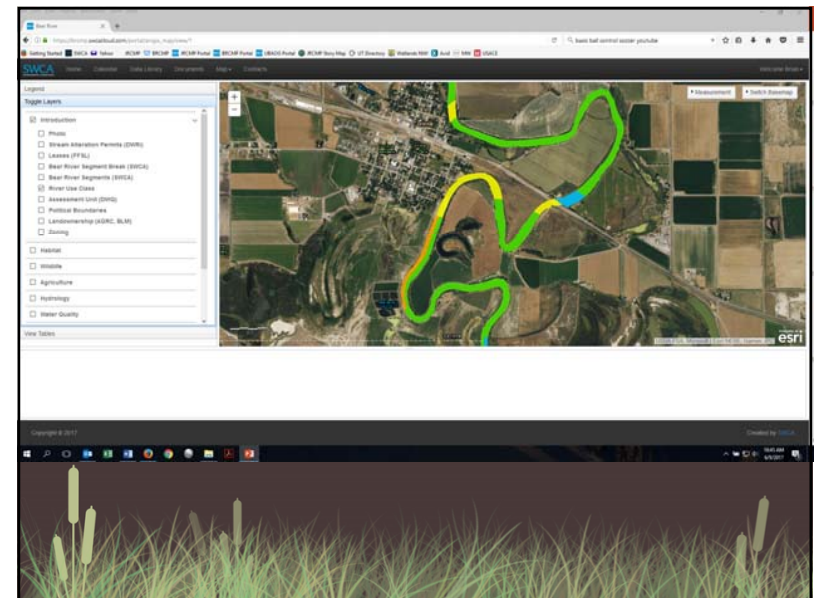
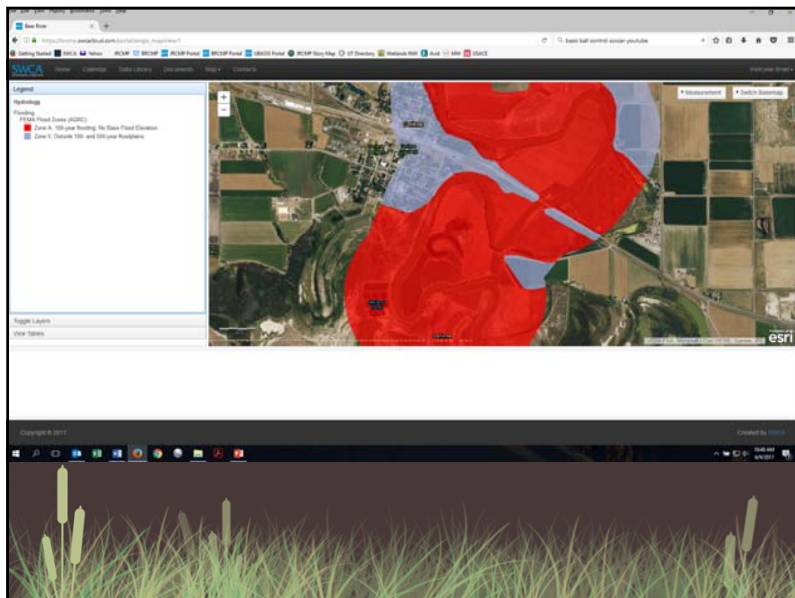
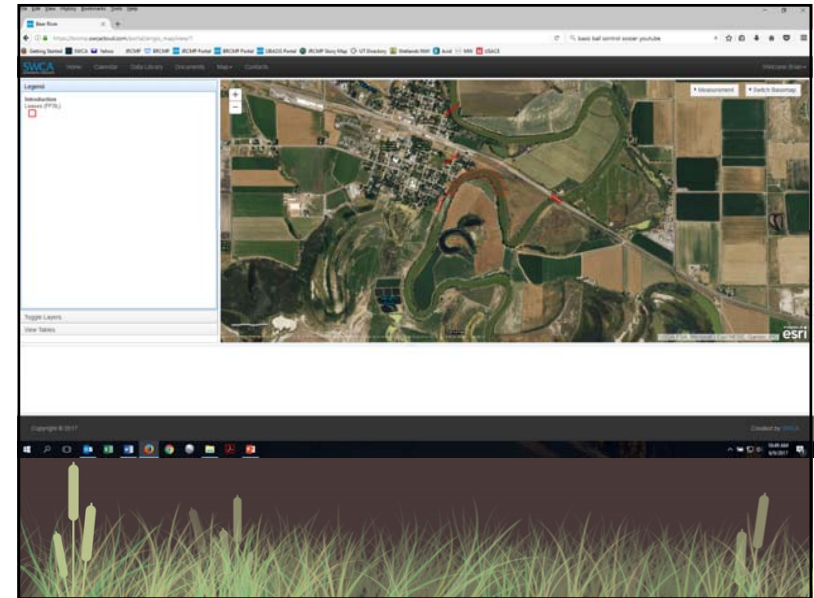
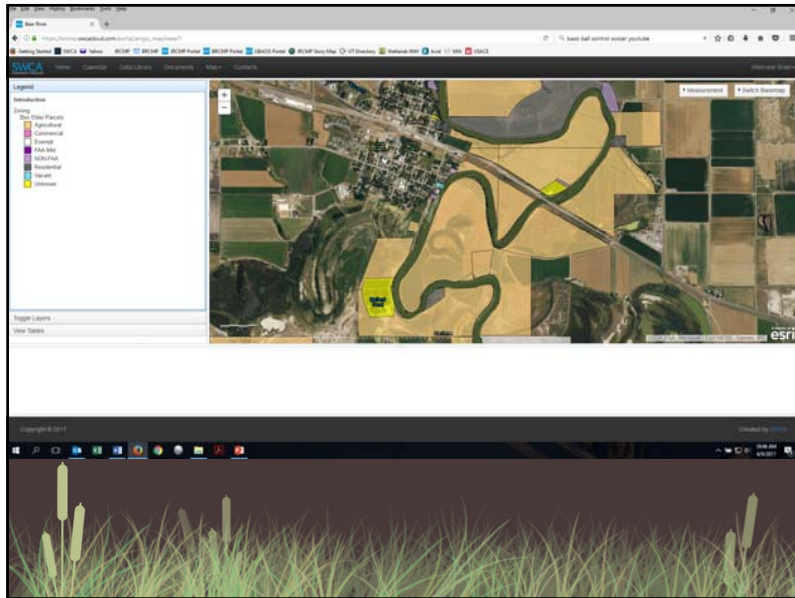
EXAMPLE



EXAMPLE



River Classification Maps



Bear River Managing Management Plan

RIVER USE CLASSES

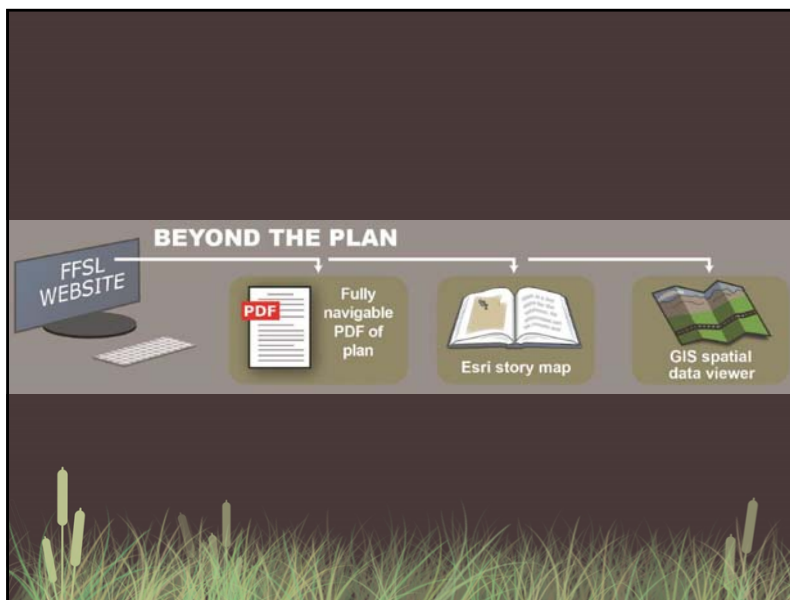
ACTIVITY MATRIX

| River Use Class | Description* | Example along the Bear River | Percentage Based on Average of River Class | Parameters | Proposed Action* | Class 1 | Class 2 | Class 3 | Class 4 | Class 5 |
|-----------------|--|--|--|--|--|--|---------|---------|---------|---------|
| | | | | | | Bank, Canal, and Vegetation Management | | | | |
| Class 1 | Manage to protect existing resource development uses | Authorized water diversion structures | 10% | Areas with existing authorizations | Bank stabilization (see engineering) | A | A | A | A | A |
| | | Class Resource FERC Management Plan | | Areas within FERC Management Plan | Bank stabilization (see engineering) | A | A | P | P | P |
| | | | | Areas within FERC Management Plan | Fire prevention treatments | A | A | A | P | P |
| | | | | Areas within FERC Management Plan | Grass control | P | P | P | P | P |
| Class 2 | Manage to protect potential resource development options | Intermittent (10-15%) bridge over the Bear River | 1% | Areas zoned for commercial or industrial | Vegetation treatment (aeration/brushing) | A | A | A | A | A |
| | | | | Established, permanent structures within a current watershed (see 3.1) | Vegetation planting and propagation | A | A | A | A | A |
| | | | | Established, permanent structures within a current watershed (see 3.1) | Herbicide (e.g., white vinegar) | A | A | A | A | A |
| | | | | Established, permanent structures within a current watershed (see 3.1) | Vegetation removal | A | A | A | P | P |
| Class 3 | Manage to protect potential resource development options | Harvest Park in Elwood, Utah | 1% | Areas zoned residential or for development in a local watershed, but not for golf course | Education and Research | | | | | |
| | | | | Areas zoned residential or for development in a local watershed, but not for golf course | Education and interpretation | A | A | A | A | A |
| | | | | Areas zoned residential or for development in a local watershed, but not for golf course | Scientific research experiments | A | A | A | A | A |
| | | | | Areas zoned residential or for development in a local watershed, but not for golf course | Survey and monitoring activities | A | A | A | A | A |
| Class 4 | Manage for resource inventory and analysis | Class 4 is not applied to the Bear River planning area | | | Habitat Management | | | | | |
| | | | | | Acoustic resource assessment | A | A | A | A | A |
| | | | | | Wildlife habitat (e.g., nesting structures) | A | A | A | A | A |
| Class 5 | Manage to protect potential resource development options | East Tropicosis Agricultural Preserve Area | 33% | Conservation of agricultural and/or natural resources | Infrastructure | | | | | |
| | | | | Conservation of agricultural and/or natural resources | Below-ground water, air and gas lines, and communication lines | P | P | N | N | N |
| | | | | Conservation of agricultural and/or natural resources | Below ground or buried utilities | A | A | A | A | P |
| | | | | Conservation of agricultural and/or natural resources | Bridge (pedestrian?) | A | A | A | P | P |
| | | | | Conservation of agricultural and/or natural resources | Bridge (vehicular?) | A | A | A | P | N |
| | | | | Conservation of agricultural and/or natural resources | Dams | P | P | P | N | N |
| | | | | Conservation of agricultural and/or natural resources | Seine traps | P | P | P | P | P |
| | | | | Conservation of agricultural and/or natural resources | Trapping traps | A | A | A | A | A |
| | | | | Conservation of agricultural and/or natural resources | Drifted structures | A | A | A | P | P |
| | | | | Conservation of agricultural and/or natural resources | Overhead power lines | P | P | P | P | P |
| | | | | Conservation of agricultural and/or natural resources | Regulation (e.g., water, sewage, riparian?) | A | A | A | A | P |
| | | | | Conservation of agricultural and/or natural resources | Trade barriers | A | A | A | P | P |
| Class 6 | Manage to protect existing resource development uses | Bear River Bottoms | 9% | Local, county, state, or federal conservation priorities | Recreation | | | | | |
| | | Conservation of Cultural Resources | | Local, county, state, or federal conservation priorities | Boat docks (permanent?) | N | N | N | N | N |
| | | Bear River Migratory and Wetland Areas adjacent to townships lands | | Local, county, state, or federal conservation priorities | Boat docks (seasonal/temporary?) | A | A | A | A | P |
| | | | | Local, county, state, or federal conservation priorities | Boat ramps | P | P | A | P | P |
| | | | | Local, county, state, or federal conservation priorities | Recreational trail management | A | A | A | A | A |
| | | | | Local, county, state, or federal conservation priorities | Other recreation structures (permanent?) | P | P | P | P | P |
| | | | | Local, county, state, or federal conservation priorities | Other recreation structures (temporary?) | A | A | A | P | P |

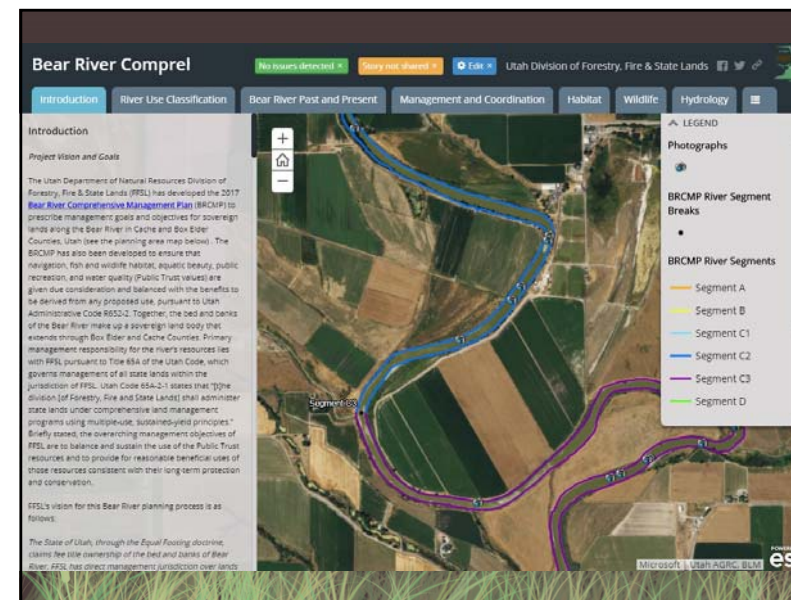
Figure 3.2 Classification of Riverways 1 along the Bear River

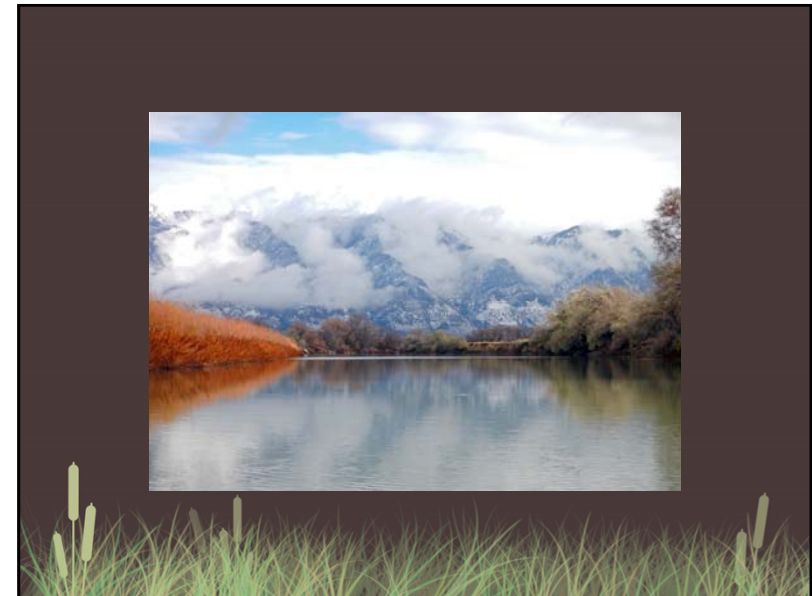
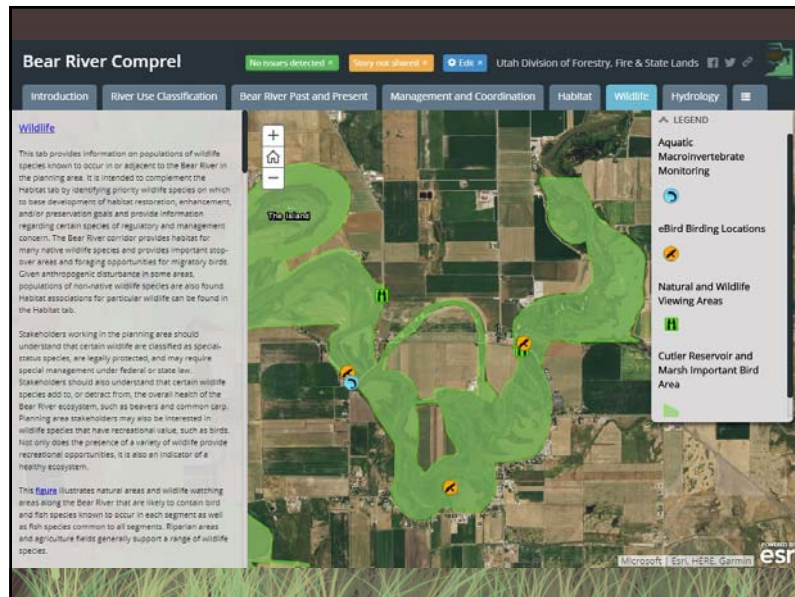
FFSL has codified resource land use classes to guide management of areas with diverse current and desired future conditions. From a management perspective, FFSL recognizes that different activities have different impacts on riverway lands. Table 3.2 provides guidance for applicants seeking an easement, general permit, or right-of-way entry. For those activities allowed (A) in certain classes, no site specific analysis of the project area and of resources associated with it is likely to be required. For those activities potentially allowed (P), certain BMPs must be incorporated into the project design and long term maintenance to preclude a site-specific analysis of the project area. For those activities not allowed (N), a site specific analysis is required.

Table 3.2 Use Determinations for Proposed Activity by River Use Class



| MANAGEMENT GOALS & OBJECTIVES | | | | BEST MANAGEMENT PRACTICES FOR WILDLIFE HABITAT THE PLANNING AREA | | | | | |
|-------------------------------|---|------------|--|--|---|------------|---|----------------------|-----------------------|
| Wildlife Species Goal 1: | Recognize the importance and support the sustainability of viable populations of native and desirable native species, along with migratory bird species and Bear subfunds. | Objective: | Coordinate with agencies, partners, and interested stakeholders to encourage the creation, restoration, enhancement, and preservation of a diversity of habitats and adequate cover, reproductive sites, and food needed for fish and invertebrate life. | Objective: | Support creation, management, and research of habitats and migrating bird populations with agencies, partners, and interested stakeholders, including non-governmental organizations and citizen science groups. | Objective: | Support DMQ aquatic wildlife-related beneficial uses, and help ensure compliance with current, state or federal laws. | Management Agencies: | FFSL, DMQ, USACE, DMQ |
| Wildlife Species Goal 2: | Recognize the importance of wildlife habitat opportunities in and along the Bear River. | Objective: | Coordinate with agencies, partners, and interested stakeholders to increase the biodiversity and abundance of birds and other wildlife species in and along the Bear River through habitat restoration and enhancement. | Objective: | Coordinate with agencies, partners, and interested stakeholders to increase the biodiversity and abundance of birds and other wildlife species in and along the Bear River through habitat restoration and enhancement. | Objective: | Coordinate with agencies, partners, and interested stakeholders to increase the biodiversity and abundance of birds and other wildlife species in and along the Bear River through habitat restoration and enhancement. | Management Agencies: | FFSL, DMQ, USACE, DMQ |
| Wildlife Species Goal 3: | Support the control or eradication of existing aquatic invasive species and prevent the introduction of new aquatic invasive species and terrestrial, non-native species to the Bear River. | Objective: | Coordinate with DMQ on public awareness programs and other strategies for keeping non-native, invasive pest species out of the Bear River. | Objective: | Coordinate with DMQ on public awareness programs and other strategies for keeping non-native, invasive pest species out of the Bear River. | Objective: | Coordinate with DMQ on public awareness programs and other strategies for keeping non-native, invasive pest species out of the Bear River. | Management Agencies: | FFSL, DMQ, USACE, DMQ |





SUMMARY OF WATER YEAR 2017 BEAR LAKE OPERATIONS

| Date | Hydrologic Information/Event | Contents (% of Full) Discharge (% of Normal) |
|----------|--|---|
| 10-01-16 | Bear Lake Beginning Elevation - 5,910.69 ft. | 536,739 acre-feet (38%) |
| 09-25-16 | Bear Lake Low Elevation - 5,910.61 ft. (see note 1) | 531,576 acre-feet (37%) |
| | Rainbow Inlet Canal Discharge | 709,000 acre-feet (270%) |
| | Bear River Discharge Below Stewart Dam | 1,839 acre-feet |
| | Bear Lake Net Runoff (Computed Total Inflow less Lake Evaporation) | 856,000 acre-feet (265%) |
| 07-14-17 | Bear Lake High Elevation - 5,922.32 ft. | 1,327,566 acre-feet (93%) |
| | Outlet Canal Releases: 6/22-9/23 (94 days) | 154,000 acre-feet |
| 08-12-17 | Outlet Canal Maximum Release - 1,336 cfs | |
| | Bear Lake Storage Release | Not Applicable - Flood Control operations |
| 09-30-17 | Bear Lake Ending Elevation - 5,920.98 ft. | 1,233,523 af (87%) |
| | Bear Lake Settlement Agreement "System Loss" Volume | Not Applicable - Flood Control operations |

Notes: 1. Low contents prior to start of storage (occurred in previous water year).

Current Status

Bear Lake elevation as of November 16, 2017 was 5920.40 feet. The Bear Lake Outlet Canal is open and passing a target flow of 1,400 cfs, 300 cfs more than the current normal winter flood control target of 1,100 cfs in order to refill Alexander Reservoir. There is 292 cfs in the Rainbow Inlet Canal and the flow pumped through Lifton is estimated at 800 cfs.

Summary of Water Year 2017

The Bear Lake Irrigation Water Allocation for 2017 was 245,000 acre-feet. Runoff was much higher than normal, with Bear Lake net runoff at 856,000 acre-feet (265% of normal). The Bear Lake Outlet Canal was opened June 22. The peak inflow rate at the Rainbow Canal was 3,828 cfs on March 29.

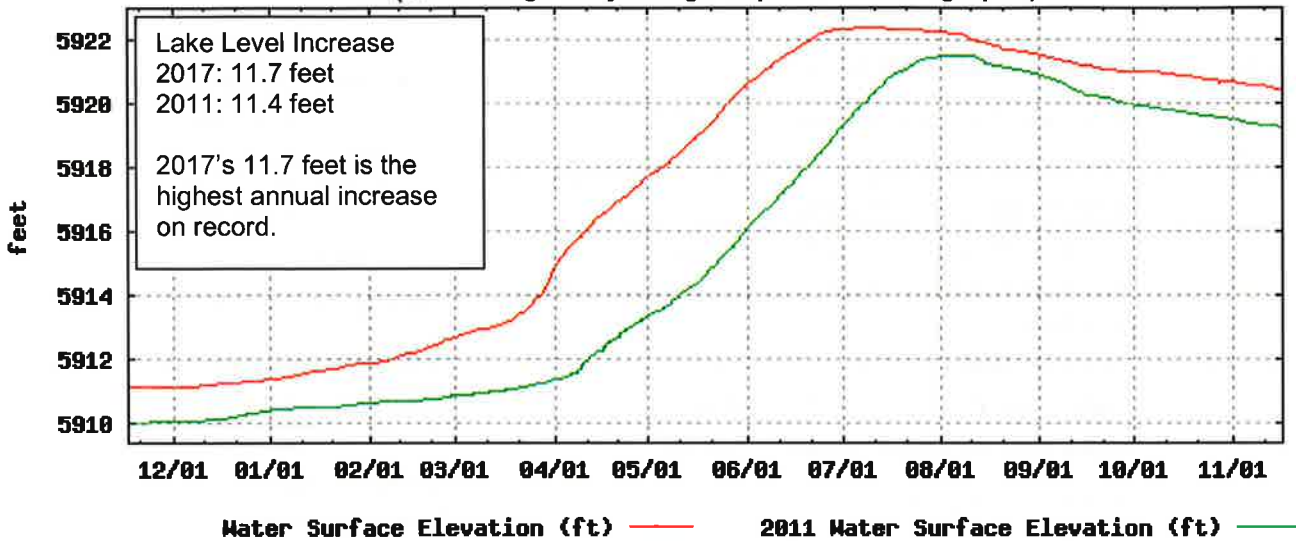
Water Year 2018

The PacifiCorp target elevation for March 31, 2018 is 5918.0 feet.

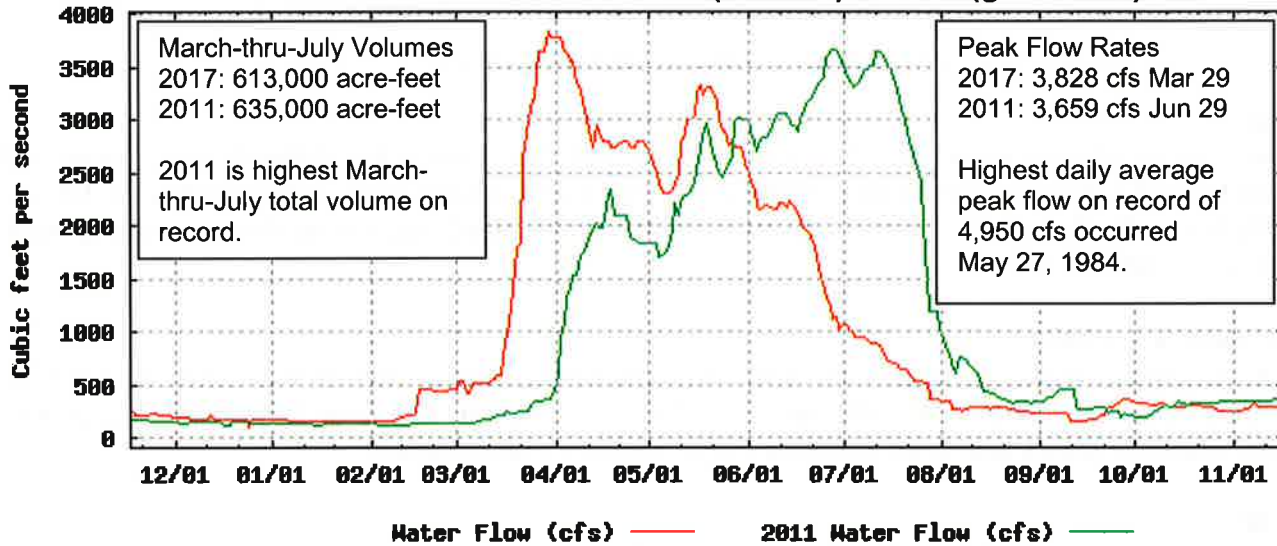
Operational Notes

- *Bear River Black Canyon Recreational Water Releases* occurred in 2017 and planned for 2018. The full available flow was passed through Black Canyon during each event.
- *2017 Alexander Reservoir Drawdown* – Alexander Reservoir was drawn down for bypass valve headgate seal work. Draw down began September 13, 2017 and refill is currently in progress, facilitated by increased flow from the Bear Lake Outlet Canal.
- *2017 Oneida Narrows Reservoir Drawdown* – Oneida Narrows Reservoir was drawn down in 2017 September 12 through October 6 to complete intake gate hoist installation.
- *2017 Grace Flowline Maintenance* – The timing of the Grace plant outage for the wood stave flowline maintenance, typically done in the spring, was shifted to the fall (Sept 26 to Oct 11) due to high flows in the Spring.

Bear Lake Elevations 2017 (red line) v. 2011 (green line)
 (Time Range is 1 year ago to present for all graphs)



Rainbow Canal Flows 2017 (red line) v. 2011 (green line)



Bear Lake Outlet Canal Flows 2017 (red line) v. 2011 (green line)

