

Chapter 4 - Environmental Commitments

The following environmental commitments would be implemented as an integral part of the Proposed Action.

1. Standard Reclamation Management Practices--Standard Reclamation management practices would be applied during construction activities to minimize environmental effects and would be implemented by Reclamation construction forces or included in construction specifications. Such practices or specifications include sections in the present report on public safety, dust abatement, air pollution, noise abatement, water pollution abatement, waste material disposal, erosion control, archaeological and historical resources, vegetation, and wildlife.
2. Additional Analyses--If the Proposed Action were to change significantly from that described in the EA because of additional or new information, or if other construction areas are required outside the areas analyzed in this EA, additional environmental analysis including cultural and paleontological analyses would be undertaken if necessary.
3. Clean Water Act Compliance--If Congress approves this project, before beginning construction activities associated with modification or relocation of recreation facilities, Reclamation or its contractor would obtain from the U.S. Army Corps of Engineers, a 404 Permit, Clean Water Act of 1977 (P.L. 95-217). The conditions and requirements of the 404 Permit would be strictly adhered to by Reclamation and the District. Also, in compliance with the provisions of the Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated 1953, the contractor would be required to get a General Construction Storm Water Permit as part of the Utah Pollutant Discharge Elimination System (UPDES) from the State of Utah Division of Water Quality, if the area of disturbance is or exceeds 1 acre. The contractor would need to implement erosion and sediment controls according to a storm water pollution prevention plan prepared in compliance with the general permit.
4. Appropriate measures would be taken to ensure that construction related sediments would not enter Willard Reservoir either during or after construction.

5. Cultural Resources--Although no effect to cultural resources is anticipated, the construction activity will be monitored by the Provo Area Office archaeologist to ensure that cultural resources or historic properties will not be adversely affected.

Any person, who knows that he/she has inadvertently discovered possible human remains on Federal land, must provide immediate telephone notification of the discovery to Reclamation's Provo Area Office archaeologist. Work would stop until the proper authorities were able to assess the situation onsite. This action would promptly be followed by written confirmation to the responsible Federal agency official with respect to Federal lands. The Utah State Historic Preservation Office and interested Native American tribal representatives would be promptly notified (see Section 3.2.9.2 for list of tribes contacted). Consultation would begin immediately. This requirement is prescribed under the Native American Graves Protection and Repatriation Act (43 CFR Part 10); and the Archaeological Resources Protection Act of 1979 (16 U.S.C. 470).

The above process is listed on a "yellow card," to be placed in the cabs of heavy equipment used during construction of the proposed project. This card would be distributed to the equipment operators and verbal direction and description of possible inadvertent discovery scenarios would be given at a preconstruction meeting by the Provo Area Office archaeologist prior to any ground-disturbing activity.

6. Construction Activities Confined to Previously Disturbed Areas--All construction activities would be confined to previously disturbed areas, to the extent practicable. All winter construction activities occurring within ½-mile of any bald eagle roost site would be restricted to hours between 9 a.m. and 4 p.m. from November 1st to March 31st, and into April, if necessary until all bald eagles have left the area.
7. Public Access--Construction sites would be closed to public access. Temporary fencing, along with signs, would be installed to prevent public access. Reclamation and the District would coordinate with Willard Bay State Park personnel as necessary to ensure public safety.
8. Disturbed Areas--All disturbed areas would be smoothed, shaped, seeded, contoured, and rehabilitated to as near their preproject construction condition as practicable. After completion of the recreation facility construction and restoration activities, disturbed areas would be seeded at appropriate times with weed-free, native

seed mixes. The composition of seed mixes would be coordinated with wildlife habitat specialists. Weed control on all disturbed areas would be required.

9. Appropriate steps would be taken to prevent the spread of, and to otherwise control undesirable plants and animals within areas affected by construction activities. Equipment used for the project would be inspected for reproductive and vegetative parts, foreign soil, mud or other debris that may cause the spread of weeds, invasive species and other pests, and for removing such material before moving vehicles and equipment onto any Federal land or out of any area on Federal project land where work is performed. Upon the completion of work, decontamination would be performed within the work area before the vehicle and/or equipment are removed from Federal project lands.
10. Environmental Commitment Plan (ECP) and Environmental Commitment Checklist (ECC)--An ECP and an ECC would be prepared and used by the Provo Area Office to ensure compliance with the environmental commitments and the environmental quality protection requirements. A post-construction environmental summary (PCES) would be completed within 1 year after completion of the project to assess the effectiveness of the mitigation measures.

Chapter 5 - Consultation and Coordination

5.1 Introduction

This chapter details the consultation and coordination between Reclamation and other Federal, state, and local government agencies, Native American Tribes, and the public during the preparation of this EA. Compliance with NEPA is a Federal responsibility that involves the participation of all of these entities in the planning process. NEPA requires full disclosure about major actions taken by Federal agencies and accompanying alternatives, impacts, and potential mitigation of impacts.

5.2 Public Involvement

The Draft EA for this project was made available for public review and comment from October 31 to November 26, 2007. Two comment letters were received, and revisions to this final EA were made as appropriate based upon those comments.

Interested parties may view a copy of the Final EA on the internet at Reclamation's Provo Area Office website at www.usbr.gov/uc/provo/index.html (look under the section "Current Focus" and click on the EA). They may also obtain a copy by submitting a written request to Mr. W. Russ Findlay, Bureau of Reclamation, Provo Area Office. The address is 302 East 1860 South, Provo, Utah 84606-7317, or e-mail, rfindlay@uc.usbr.gov.

5.3 Native American Consultation

Consultation regarding cultural resources for this Proposed Action has been completed with all interested tribes, including the Ute Tribe of the Uintah and Ouray Reservation near Fort Duchesne, Utah; the Northwest Band Shoshone Nation of Brigham City, Utah; the Paiute Indian Tribe of Utah, Cedar City, Utah; the Skull Valley Goshute Tribe of Salt Lake City, Utah; the Zuni Indian Tribe of Zuni, New Mexico; the Hopi Tribe of Kykotsmovi, Arizona; the Pueblo of Zia of Zia, New Mexico; the Kaibab Band of Paiute Indians of Fredonia, Arizona; the Pueblo of Laguna, Laguna, New Mexico; the Pueblo of Nambe, of Santa Fe, New Mexico, and the Confederated Goshutes of Ibapah, Utah.

This consultation was conducted in compliance with 36 CFR 800.2(c)(2), on a government-to-government basis. Through this effort, the tribes were given a

reasonable opportunity to (1) identify any concerns about historic properties; (2) advise on the identification of historic properties, including those of traditional religious and cultural importance; (3) express their views on the undertaking's effects on such properties; and (4) participate in the resolution of adverse effects.

5.4 Coordination with Other Agencies

Consultation has been completed with the Utah SHPO to comply with Section 106 of the NHPA for cultural resources.

Chapter 6 - Preparers

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Chapter 7 - References

Kaval, P. and J. Loomis, October 2003. "Updated Outdoor Recreation Use Values with Emphasis on National Park Recreation." Final Report to National Park Service, Ft. Collins, CO. Cooperative Agreement No. CA 1200-99-009.

U.S. Department of the Interior, Bureau of Reclamation, revised 1994. Standard Operating Procedures. A.V. Watkins Dam. Weber Basin Project, Utah.

Utah Governor's Office of Planning and Budget, Location:
[http://governor.state.ut.us/dea/demographics/200_census_data_2000/census_data.html].

Utah Department of Environmental Quality, Division of Water Quality, Salt Lake City, Utah. Utah 2006 Integrated Report Volume I - 305(b) Assessment. June 15, 2006.

Utah Department of Environmental Quality, Division of Water Quality, Salt Lake City, Utah. Utah's 2006 Integrated Report, Volume II - 303(d), List of Impaired Waters, April 1, 2006.

Baker, Shane A., Scott E. Billat, Lane D. Richens, and Richard K. Talbot, 1992. An Archaeological Survey of Bureau of Reclamation Lands Around Willard Bay Reservoir, Northern Utah. Office of Public Archaeology, Brigham Young University, Provo, Utah.

Berry, Michael S. and Claudia F. Berry, 2003. An Archaeological Analysis of the Prehistoric Fremont Culture for the Purpose of Assessing Cultural Affiliation with Ten Claimant Tribes. Ms. on file, Bureau of Reclamation, Upper Colorado Regional Office, Salt Lake City, Utah.

Chadwick, Raymond S., et al., June 1975. Soil Survey of Box Elder County, Utah - Eastern Part. USDA, NRCS, Washington, D.C.

Fawcett, William and Steven R. Simms, 1993. Archaeological Test Excavations in the Great Salt Lake Wetlands and Associated Analyses. Department of Sociology, Social Work, and Anthropology, Utah State University, Logan, Utah.

Federal Register 1986, "33 CFR Part 328: Definitions of Waters of the United States," Vol. 51, No. 219, U.S. Government Printing Office, Washington, D.C.

Federal Register 1996, "33 CFR Part 330: Final Notice of Issuance, Reissuance, and Modification of Nationwide Permits; Notice," Vol. 61, No. 241 U.S. Government Printing Office, Washington, D.C.

Hassel, Francis K. and Mark E. Stuart, no date. Surface Sites in the Willard Reservoir Basin, Box Elder County, Utah. Unpublished manuscript, Ogden, Utah.

Hintze, Lehi F., 1982. Geologic History of Utah, BYU Geology Studies, Volume 20, Part 3, Brigham Young University, Provo, Utah.

Janetski, Joel C. and David B. Madsen (eds.), 1990. Wetland Adaptations in the Great Basin. Museum of Peoples and Cultures, Occasional Papers Number 1, Brigham Young University, Provo, Utah.

Madsen, David B., 1982. Get It Where the Getting's Good: A Variable Model of Eastern Great Basin. In Man and Environment in the Great Basin, D.B. Madsen and J.F. O'Connell (eds.). Society for American Archaeology Papers, Number 2, Washington, D.C.

Pendergast, David M. and Clement Meighan, 1959. Folk Tradition as Historical Fact: A Paiute Example, *Journal of American Folklore* 72(284): 128-133.

Personius, Stephen F., 1990. Surficial Geologic Map of the Brigham City Segment and Adjacent Parts of the Weber and Collinston Segments, Wasatch Zone, Box Elder and Weber Counties, Utah. MAP I-1979 (USGS).

Simms, Steven R., and Mark E. Stuart, 1991. Prehistory and Past Environments of the Great Salt Lake Wetlands. In Simms, Steven R., Carol J. Loveland, and Mark E. Stuart, 1991. Prehistoric Human Skeletal Remains and the Prehistory of the Great Salt Lake Wetlands. Department of Sociology, Social Work, and Anthropology, Utah State University, Logan, Utah.

Simms, Steven R., Carol J. Loveland, and Mark E. Stuart, 1991. Prehistoric Human Skeletal Remains and the Prehistory of the Great Salt Lake Wetlands. Department of Sociology, Social Work, and Anthropology, Utah State University, Logan, Utah.

Smith, Anne M., 1974. *Ethnography of the Northern Utes*. Museum of New Mexico Papers in Anthropology No. 17. Museum of New Mexico Press, Santa Fe, New Mexico.

Sommerfeldt, T.E., 1984. Initial assessment of the introduction of spottail shiner (*Notropis hudsonius*) and delta smelt (*Hypomesus transpacificus*) into Willard Bay Reservoir, Utah, 81pp.

Stokes, William Lee, 1986. Geology of Utah, Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City, Utah.

Summers, Kent, 1970. Willard Bay 1970 Fiscal and Biological Inventory. State of Utah Department of Natural Resources Division of Wildlife Resources, Salt Lake City, Utah.

Thomas, David H., 1985. The Archaeology of Hidden Cave, Nevada. Anthropological Papers of the American Museum of Natural History, Vol. 61, Part 1. New York.

U.S. Department of Commerce, Bureau of the Census, 1996. P60-193, Money Income in the United States: 1995.

U.S. Department of Interior, Bureau of Reclamation, 1958. Weber Basin Project, Definite Plan Report as supplemented, Bureau of Reclamation. On file at the Provo Area Office, Bureau of Reclamation.

U.S. Department of Interior, Bureau of Reclamation, 1963. Memorandum of Agreement-Relating to the Development of the Willard Waterfowl Management Area, Contract No. 14-06-400-2871.

U.S. Department of Interior, Bureau of Reclamation, 1973. Memorandum of Agreement - Regarding the Administration and Development of Certain Lands at The Willard Reservoir for Wildlife Management Purposes, Contract No. 14-06-400-5925.

U.S. Department of Interior, Bureau of Reclamation, 1980. Memorandum of Agreement - Regarding the Administration and Development of Certain Lands at The Willard Reservoir for Wildlife Management Purposes, Contract No. 0-07-40-4478.

U.S. Department of Interior, Bureau of Reclamation, 1983. Lease of Land For Management Purposes, Contract No. 3- 07-40-L1410.

U.S. Department of Interior, Bureau of Reclamation, 1983. Reservoir Management Review - Willard Bay Reservoir. U.S. Department of Interior, Bureau of Reclamation, 1986. Reservoir Management Review - Willard Bay Reservoir, Utah.

U.S. Department of Interior, Bureau of Reclamation, 1987. Draft Environmental Statement: Change of Water Use in Willard Reservoir, Salt Lake City, Utah.

U.S. Department of Interior, Bureau of Reclamation, 1987. Supplement to 1980 Memorandum of Agreement - Relating to the Administration and Development of

Certain Lands at the Willard Reservoir for Wildlife Management Purposes, Contract No. 6-07-L1450.

U.S. Department of Interior, Bureau of Reclamation, 1991. Land Management and Recreation Review - Willard Reservoir, Weber Basin Project, Utah.

U.S. Department of Interior, Bureau of Reclamation, 1991. Memorandum of Agreement for Administration and Development of Certain Lands for Wildlife Management Purposes at Willard Reservoir, Weber Basin Project, Utah (Draft-never signed).

U.S. Department of Interior, Bureau of Reclamation, 1997. Memorandum of Agreement for Administration, Development, Operation, and Maintenance of the Wildlife Management Area at Willard Reservoir, Weber Basin Project, Utah (Draft).

U.S. Department of Interior, Bureau of Reclamation, 2007. Scoping Study Report, Technical Memorandum, A.V. Watkins Dam Repair, Utah, Upper Colorado Region.

U.S. Fish and Wildlife Service, 1952. A preliminary evaluation report on fish and wildlife resources in relation to the Weber Basin Project, 44pp. (In the 1952 Weber Basin Project DPR).

Utah Department of Community and Economic Development, 1997. Utah! 1997 Economic and Travel Industry Profiles for Utah Counties, prepared by Division of Travel Development.

Utah Department of Environmental Quality, Standards of Quality for Waters of the State (Rule R317-2 Utah Administrative Code) as in effect on July 1, 2007. Salt Lake City, Utah.

Utah Department of Fish and Game, 1959. A reappraisal of the fish and wildlife aspects of the Weber Basin Project, Utah, 27 pp. (In the 1959 Weber Basin Project Supplement to DPR).

Utah Department of Natural Resources, 1992. 1992 Utah SCORP: Utah's State Comprehensive Outdoor Recreation Plan, prepared by the Division of Parks and Recreation.

Utah Department of Natural Resources, 1997. Willard Bay State Park Visitor Survey Results, prepared by the Division of Parks and Recreation.

Utah Department of Natural Resources. Annual visitation records for Utah State Parks, 1981-1996, prepared by the Division of Parks and Recreation.

Utah Department of Natural Resources. Monthly Use Reports for Willard Bay State Park, 1995-1996, prepared by the Division of Parks and Recreation.

Utah Department of Natural Resources. Monthly visitation records for Utah State Parks, 1990-1996, prepared by the Division of Parks and Recreation.

Utah Department of Transportation, 1993. Traffic on Utah Highways, Utah Department of Transportation, Salt Lake City, Utah.

Utah Department of Transportation, 1995. Traffic on Utah Highways, Utah Department of Transportation, Salt Lake City, Utah.

Utah Division of Wildlife Resources, 1990. Introduction of gizzard shad and white bass into Willard Bay Reservoir. Project Proposal for Willard Bay Reservoir.

Utah Governor's Office of Planning and Budget, 1997. State of Utah Economic and Demographic Projections, 1997. Prepared by the Demographic and Economic Analysis Section, UPED model.

Utah Governor's Office of Planning and Budget, 1999. 1999 Economic Report to the Governor. Prepared by the Demographic and Economic Analysis Section. Tables 23 and 27 and Figure 47.

Utah Geological and Mineral Survey, 1989. Geologic Resources of Box Elder County, Utah. UGMS Miscellaneous Publication 89-3, Utah Department of Natural Resources, Salt Lake City, Utah.

Utah Water Research Laboratory, 1987. Bear River Water Quality: Phosphorous Control and the Impacts of Exchanging Water with Willard Reservoir. Utah State University, Logan, Utah.

Wilson, G., 1993. Habitat management plan for Willard Bay Management Area. Utah Division of Wildlife Resources.