

APPLICATION NUMBER 10-
Farmington Bay Waterfowl Management Area
Project Title: Farmington Bay Waterfowl Management Area Emergency Booms
(FBWMA's First Priority Project)
See below

UTAH DIVISION OF WATER QUALITY

195 North 1950 West
PO Box 144870
Salt Lake City, Utah 84114-4870

Red Butte Creek Project Proposal Form

NOTE: Proposal must be no longer than 6 pages. Supplemental documents such as letters of support, information to demonstrate previous project implementation and other relative supportive documents may be submitted in addition to this form.

Applicant Name: Rich Hansen

Co-Applicant Name(s) (if applicable):

Project Title: **Farmington Bay Waterfowl Management Area Emergency Booms**

Agency or Business Name (if applicable): Utah Division of Wildlife Resources

Mailing Address: 1342 S. 1325 W. City: Farmington State: UT Zip: 84025

Phone: (801) 391-1454 E-mail: richhansen@utah.gov

Individual Non-Profit Govt. Agency Academic Commercial Other

1. Estimated Project Costs:

Labor	\$ <u>2,000</u>
Materials	\$ <u>7,250.</u>
Equipment	\$ _____
Administration	\$ _____
Miscellaneous	\$ _____
TOTAL	\$<u>9,250</u>

Other sources of project funding:

_____	\$ _____	_____	\$ _____
Source	Amount	Source	Amount

Total project cost including other sources of funding: \$9,250.
(please include bids for labor, equipment, rentals, etc.)

2. Describe the purpose and need of the project:

This project is to get booms and emergency response items in case there is another spill that affects any of the tributaries to Farmington Bay Waterfowl Management Area (FBWMA).

Contaminants from the Chevron oil spills in 2010, affected Red Butte Creek, the Jordan River, and were sampled at the Burnham Dam which is located near the Jordan

River delta within the Great Salt Lake. The FBWMA receives water after it flows through the dam and contaminants likely flowed into FBWMA.

With all of the waterways that feed FBWMA, its location next to urban environments, and its position at the bottom of the watershed, additional contaminant spills are anticipated in the future. Also, due to the number of oil spills in the recent past, there should be available emergency response items at FBWMA for when another spill occurs.

In addition to the emergency response items, a shed is needed to store these items on FBWMA.

The two Chevron Oil Spill events in 2010 discharged oil into Red Butte Creek, the Jordan River and Liberty Park Pond, and impacted both wild and domestic waterfowl. Some birds had direct mortality, some had to be euthanized due to their injuries, while others became coated with oil and were hand-washed. It is UDWR's understanding that 391 birds were recovered and 65 waterfowl died as a result of the spill. The majority of these birds were wild Canada geese and mallards. In addition, waterfowl nesting and feeding habitats in these waterways were also negatively affected by the oil spill. This project will greatly enhance waterfowl habitats on FBWMA and will provide some measure of compensatory mitigation for both the Chevron Oil Spill impacts.

3. Estimated time frame of the project with significant milestones (Note: Project must be completed with final reports filed by November 10, 2014):

This project would be completed by December of 2012. The emergency response items are needed as soon as project money becomes available.

4. Describe the location of the project with attached location map, including details on the total area that will be directly enhanced by the project:

The shed and spill emergency response items would be located at the headquarters of Farmington Bay Waterfowl Management Area at 1342 S. 1325 W. in Farmington, UT. This is the same location where the Farmington Bay Waterfowl Management Area office and maintenance buildings are located. Managers will be on site daily and are available to deploy the equipment when needed. UDWR will also coordinate with local entities (Davis County, Health Department) to make them aware that there is emergency spill equipment at FBWMA.

5. Describe how the project will specifically enhance and protect waterways affected by the Red Butte releases and improve the conditions of one or more of the following: wildlife, habitat, natural vegetation, water quality or emergency response:

Beneficial uses of the Jordan River, which include warm water fish, water birds, and aquatic organisms in their food chains, are protected by a variety of water quality standards, but every segment of the Jordan River has been found to be impaired for one

or more beneficial uses due to exceeding one or more water quality standards. Segments of the lower Jordan River are currently impaired due to low levels of dissolved oxygen, organic enrichment, total dissolved solids, high water temperatures, and *E. coli*. The Jordan River receives pollutants from many sources, including Utah Lake, wastewater treatment facilities, tributaries, stormwater, and diffuse runoff. While the quality of Jordan River water is not ideal for supporting the uses by fish and wildlife, it nevertheless serves as the life-blood of a series of ponds and wetlands at the lower end of the Jordan River and Farmington Bay. Management of the Jordan River is crucial to protecting the existing beneficial uses and potentially improving the condition of this waterway and wetland habitat that is supported by it.

The project will specifically protect all of the waterways that enter into FBWMA. With emergency response equipment located on-site, FBWMA personnel will have a rapid response time to deploy the booms to protect the wildlife, habitat, natural vegetation and water quality at FBWMA.

6. Describe project's connectivity to other natural areas or projects that further enhance wildlife, habitat, natural vegetation, water quality or emergency response:

All of the water that goes through FBWMA will eventually flow into the Great Salt Lake. By protecting the 12,000 acres of FBWMA, the wildlife, habitat, vegetation and water quality of the Farmington Bay arm of the Great Salt Lake are also being protected.

7. Describe any additional social benefits of implementing this project:

The social benefits of implementing this project will be that in the event of a spill, booms will be deployed and the wildlife, habitat, natural vegetation, and water quality of FBWMA will be protected. Visitors will also be able to enjoy their recreational pursuits unencumbered by possible contaminants.

8. Project plans and details, including rights to work on specified piece of land:

The FBWMA is owned and managed by the Utah Division of Wildlife Resources (UDWR). An RFP will be released requesting bids for this project.

The plan is to contract to have the storage shed built at the FBWMA maintenance yard. The cost of a quality storage shed would be around \$3,000. To ensure the safe storage of the emergency spill items, there would need to be a concrete base for the storage shed. The concrete base would cost another \$1,000.

Once the storage shed was finished, the emergency response items would be purchased and stored in the shed. The emergency response equipment will include sorbent booms and spill kits. The oil Sorbent booms come in 10 foot sections and are \$225/ section. Most of the water ways at FBWMA would need two sections to cross the

channel. It would be prudent to have at least 5 sets of sections. This would cost \$2,250 for the booms.

Two 55 gallon spill kits would also be necessary. The spill kits include pads and pillows that absorb oil, gloves, goggles, bags, and an emergency response guide. They cost \$500 each.

9. Describe your experience in implementing projects of similar scope and magnitude:

I have over nine years of experience managing a budget in excess of \$40,000/year. Also, I have worked with state purchasing throughout my career on large purchases that are put out for bid. I have garnered extra money for special projects throughout my tenure with the Division of Wildlife by writing project proposals for watershed restoration funds, and then implementing and completing those projects.

My staff and I assisted the Davis County Health Department in deploying booms on the south end of FBWMA, for the Red Butte Creek oil spill in June of 2010.

10. Describe how ongoing maintenance of the project will be funded and carried out:

Maintenance of the storage shed will come out of our annual current expense budget for FBWMA. However, there will not be much maintenance necessary. If the booms and spill kits are used for a spill, the responsible party should be willing to buy new booms to replace the used ones.

11. List consultants or agency partners that have participated in project development:

Ducks Unlimited supports the project and is willing to help out with engineering and Technical Assistance. Although these mitigation funds cannot be used to leverage additional federal funds, Ducks Unlimited can use these monies as non-match and show support towards a NAWCA grant that would benefit additional wetlands of the Great Salt Lake ecosystem. Please see the attached letter of support.

The following organizations also support this project. Please see the attached letters of support:

- USFWS
- Utah Airboat Association
- Delta Waterfowl
- Utah Mud Motor Association
- Utah Waterfowl Association

Signature Richard O Hansen Date 12/13/11
Applicant



WESTERN REGIONAL OFFICE
3074 Gold Canal Drive
Rancho Cordova, CA 95670-6116
(916) 852-2000 Fax (916) 852-2200
www.ducks.org

December 8, 2011

TO: Utah Department of Environmental Quality: Division of Water Quality

SUBJECT: Utah Department of Wildlife Resources: Farmington Bay Waterfowl Management Area Wetland Enhancement Project

Ducks Unlimited Inc. (DU) would like to express its support of the Utah Department of Wildlife Resources (UDWR) project to enhance wetland habitat on Farmington Bay Waterfowl Management Area (FBWMA). The Great Salt Lake (GSL) ecosystem is one of the most important areas for migratory waterfowl in North America. It is a designated Western Hemispheric Shorebird Reserve Network (WHSRN) site with five separate Globally Important Bird Areas and it annually supports up to four million migrating and wintering waterfowl. FBWMA is an important component of the GSL ecosystem, providing critical migration and breeding habitat for numerous waterfowl, shorebirds, and waterbirds. Any effort to conserve this valuable resource is a worthy activity that DU fully supports.

DU has a long history of partnership and collaboration with UDWR on wetland enhancement projects. Recently, DU has worked closely with UDWR on three wetland enhancement projects on FBWMA. Two of these projects were funded by the North American Wetland Conservation Act (NAWCA). NAWCA is a federal funding program that provides grants to organizations that have developed broad partnerships to deliver wetland conservation projects. These projects must deliver long-term protection, restoration and/or enhancement of wetlands and wetland-associated upland habitat and require a 25-year management agreement that the landowner must fulfill.

Ducks Unlimited conserves, restores, and manages wetlands and associated habitats for North America's waterfowl. DU is pleased to support the Utah Department of Wildlife Resources on their efforts to enhance wetland habitats on Farmington Bay WMA.

Thank you for your consideration of this important project.

Sincerely,

Jeff McCreary
Director of Conservation Programs



United States Department of the Interior
FISH AND WILDLIFE SERVICE

UTAH FIELD OFFICE
2369 WEST ORTON CIRCLE, SUITE 50
WEST VALLEY CITY, UTAH 84119

December 12, 2011

In Reply Refer To
FWS/R6
ES/UT

Hilary Arens
Division of Water Quality
PO Box 144870
Salt Lake City, UT 84114

RE: Support of proposed projects from the Utah Division of Wildlife Resources

Dear Ms. Arens,

The Great Salt Lake (GSL) ecosystem is recognized for its hemispheric importance for migratory and breeding waterbirds. Millions of migratory waterbirds utilize GSL and its associated wetlands on an annual basis. Conservation and management of the critical habitat in the GSL ecosystem has become more urgent in the face of increasing development in the watershed coupled with climate change and other anthropogenic stressors. GSL is a terminal lake and therefore responds rapidly to climate, anthropogenic effects, and other stressors, including sedimentation and environmental contaminants. Eutrophication of GSL wetlands has become a chronic issue and causes detrimental effects to important waterbird habitat. Recent data from waterbirds and from wetlands surrounding GSL has found elevated concentrations of trace elements including selenium and mercury. As stressors continue to have effects on GSL wetlands, management actions may be necessary to reduce the potential adverse effects from contaminants and other stressors and restore habitats to a healthier condition.

U.S. Fish and Wildlife Service (Service) is responsible for the management and conservation of important wetlands habitats in the GSL watershed. The Service partners with agencies such as the Utah Department of Natural Resources to work towards a common goal of migratory bird habitat conservation and restoration. The subject proposals put forth by the Utah Division of Wildlife Resources provide effective means of addressing important natural resource management issues in Jordan River and Farmington Bay Waterfowl Management Area (WMA). These projects will improve water and/or habitat management and provide several benefits to the important aquatic natural resources of Farmington Bay WMA. The subject proposals will make a significant contribution to our ability to manage Farmington Bay WMA and the important wildlife resources that it supports.

Sincerely,

John Isanhart, Ph.D.
Ecologist



December 7, 2011

To whom it may concern,

The Utah Airboat Association has a long history of interaction with the Farmington Bay Waterfowl Management Area. The current management has shown to us that they are very proactive in improving and creating managed wetlands. In the past few years the Farmington Bay WMA has built and maintained the new Doug Miller Unit, they have made improvements to water control structures and have been fighting a valiant struggle against the invasive species that has destroyed most of our marshes along the Great Salt Lake...Phragmites. Over the years, improvements made to other units at Farmington Bay WMA such as the habitat/water improvements in the Crystal unit and the east side of Unit 1 have resulted in increased wildlife use and much improved habitat overall.

The Utah Airboat Association is proud to be involved with the Farmington Bay WMA and pledge our continued support in their effort to continue the improvements and ongoing maintenance of this remarkable wetland.

R. Jefre Hicks – President

Utah Airboat Association – utairboat.com



December 8, 2011

To whom it may concern. Thank you for your time.

I am writing to you on behalf of Delta Waterfowls' Utah Chapter's. This letter bears testament to our support and recommendation for Rich Hansen's grant. Rich is an employee of the Utah Department of Wildlife Resources. Rich manages the Farmington Bay Waterfowl Management Area.

Over the last 8 years, numerous members of our chapters as well as myself, have had the privilege of extensively working with Rich on multiple projects that directly benefit Utah's wildlife and wetlands habitat. Rich is a tireless manager that often coordinates a great variety of projects throughout Utah's public lands. Delta Waterfowl, along with many other local and national organizations as well as government groups have worked with him on a variety of nesting projects, youth projects, bird banding/relocation studies, and habitat improvement projects. Rich has provided input and ideas for the development and improvement of the marshes, and impoundments of the Great Salt Lake ecosystem which due to their success have been replicated throughout the state. His programs in the continuing fight with invasive species such as phragmites have proven he is a motivated and innovative leader without equal in here in Utah. No matter the project size or scope, Rich's passion and concern for the marsh is always present.

Delta Waterfowl always knows we can count on him giving his all when it comes to important matters regarding wildlife and Utah's resources. We feel you would be hard pressed to find a man more dedicated to the improvement and maintaining of our wetlands here in Utah, and stand behind and support fully his efforts. Please consider his requests with great sincerity. Please don't hesitate to contact us with any additional questions, and we deeply appreciate your time and consideration.

Sincerely,

Troy Thompson

Utah State Coordinator

Delta Waterfowl

801-698-6467



Utah Mud Motor Association
1341 North 325 East
Layton, UT 84041
(801)721-0297
www.utahmudmotor.com

December 10, 2011

Recommendation;

As the active President of the Utah Mud Motor Association I'm writing on behalf of Rich Hansen and the staff of Farmington Bay Waterfowl Management Area. Over the course of the past seven years I've personally witnessed the positive transformation of Farmington Bay WMA while Rich and his staff have been in power. Some of these great projects include dyke reconstruction, phragmites removal, construction of new units in cooperation with other waterfowl conservation groups and many other positive projects that make Farmington Bay what it is today. All of these projects have benefited not only the human user groups at Farmington but more importantly the animals that visit or call it home. Rich's motivation, follow through and management practices have undoubtedly made this special place much much better.

Josh Noble
Utah Mud Motor Association President

UTAH WATERFOWL ASSOCIATION



To whom it may concern:

On behalf of the Utah Waterfowl Association ("UWA"), I write this letter in support of the Division of Wildlife Resources' grant proposal to fund the projects listed below. The UWA is a nonprofit organization that represents the interests of waterfowl and waterfowl hunters in the state of Utah, a majority of which utilize the Farmington Bay Waterfowl Management Area.

1. Dredging 15 miles of channels out here at Farmington Bay WMA.
2. Construction of a 350 acre unit on the South east side of Unit One, Farmington Bay.
3. Installation of artificial islands in the rest area of Unit One.
4. Repairing an existing dike referred to as the "J Dike."
5. Obtaining emergency response equipment for potential oil spills.

We believe each of these projects has a unique benefit to both waterfowl and waterfowl hunters and should be funded. The division has a long track record of successfully using both private and public funding to accomplish these types of projects and we expect the same result with respect to these projects.

Sincerely,

R. Jeff Richards
President

