

Application for Federal Assistance SF-424

| | | |
|--|--|--|
| * 1. Type of Submission: <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application | * 2. Type of Application: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision | * If Revision, select appropriate letter(s): <input type="text"/> * Other (Specify): <input type="text"/> |
|--|--|--|

| | |
|--|--|
| * 3. Date Received: <input type="text" value="06/25/2015"/> | 4. Applicant Identifier: <input type="text"/> |
|--|--|

| | |
|--|---|
| 5a. Federal Entity Identifier: <input type="text"/> | 5b. Federal Award Identifier: <input type="text"/> |
|--|---|

State Use Only:

| | |
|---|---|
| 6. Date Received by State: <input type="text"/> | 7. State Application Identifier: <input type="text"/> |
|---|---|

8. APPLICANT INFORMATION:

* a. Legal Name:

| | |
|---|---|
| * b. Employer/Taxpayer Identification Number (EIN/TIN): <input type="text" value="731016912"/> | * c. Organizational DUNS: <input type="text" value="0014751930000"/> |
|---|---|

d. Address:

| | |
|----------------------|--|
| * Street1: | <input type="text" value="5404 East 1890 road"/> |
| Street2: | <input type="text"/> |
| * City: | <input type="text" value="Waurika"/> |
| County/Parish: | <input type="text"/> |
| * State: | <input type="text" value="OK: Oklahoma"/> |
| Province: | <input type="text"/> |
| * Country: | <input type="text" value="USA: UNITED STATES"/> |
| * Zip / Postal Code: | <input type="text" value="73573-2231"/> |

e. Organizational Unit:

| | |
|--|--|
| Department Name: <input type="text"/> | Division Name: <input type="text"/> |
|--|--|

f. Name and contact information of person to be contacted on matters involving this application:

| | |
|--|--|
| Prefix: <input type="text"/> | * First Name: <input type="text" value="David"/> |
| Middle Name: <input type="text"/> | |
| * Last Name: <input type="text" value="Taylor"/> | |
| Suffix: <input type="text"/> | |

Title:

Organizational Affiliation:

| | |
|---|----------------------------------|
| * Telephone Number: <input type="text" value="580-512-4609"/> | Fax Number: <input type="text"/> |
|---|----------------------------------|

* Email:

Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

E: Regional Organization

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Bureau of Reclamation

11. Catalog of Federal Domestic Assistance Number:

15.514

CFDA Title:

Reclamation States Emergency Drought Relief

*** 12. Funding Opportunity Number:**

R15AS00046

* Title:

WaterSMART: Drought Resiliency Project Grants for Fiscal Year 2015

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

*** 15. Descriptive Title of Applicant's Project:**

Add piping and intake structure to assure water availability and resilience

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant

* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

* a. Start Date:

* b. End Date:

18. Estimated Funding (\$):

| | |
|---------------------|--|
| * a. Federal | <input type="text" value="300,000.00"/> |
| * b. Applicant | <input type="text" value="2,000,000.00"/> |
| * c. State | <input type="text" value="0.00"/> |
| * d. Local | <input type="text" value="0.00"/> |
| * e. Other | <input type="text" value="9,700,000.00"/> |
| * f. Program Income | <input type="text" value="0.00"/> |
| * g. TOTAL | <input type="text" value="12,000,000.00"/> |

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

a. This application was made available to the State under the Executive Order 12372 Process for review on

b. Program is subject to E.O. 12372 but has not been selected by the State for review.

c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

Yes No

If "Yes", provide explanation and attach

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name:

Middle Name:

* Last Name:

Suffix:

* Title:

* Telephone Number: Fax Number:

* Email:

* Signature of Authorized Representative: * Date Signed:

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

| COST CLASSIFICATION | a. Total Cost | b. Costs Not Allowable for Participation | c. Total Allowable Costs (Columns a-b) |
|---|--|---|--|
| 1. Administrative and legal expenses | \$ <input type="text" value="90,000.00"/> | \$ <input type="text" value="45,000.00"/> | \$ <input type="text" value="45,000.00"/> |
| 2. Land, structures, rights-of-way, appraisals, etc. | \$ <input type="text" value="100,000.00"/> | \$ <input type="text" value="100,000.00"/> | \$ <input type="text" value="0.00"/> |
| 3. Relocation expenses and payments | \$ <input type="text" value="310,900.00"/> | \$ <input type="text" value="310,900.00"/> | \$ <input type="text" value="0.00"/> |
| 4. Architectural and engineering fees | \$ <input type="text" value="907,200.00"/> | \$ <input type="text" value="500,000.00"/> | \$ <input type="text" value="407,200.00"/> |
| 5. Other architectural and engineering fees | \$ <input type="text" value="0.00"/> | \$ <input type="text" value="0.00"/> | \$ <input type="text" value="0.00"/> |
| 6. Project inspection fees | \$ <input type="text" value="200,000.00"/> | \$ <input type="text" value="100,000.00"/> | \$ <input type="text" value="100,000.00"/> |
| 7. Site work | \$ <input type="text" value="1,310,000.00"/> | \$ <input type="text" value="1,310,000.00"/> | \$ <input type="text" value="0.00"/> |
| 8. Demolition and removal | \$ <input type="text" value="200,000.00"/> | \$ <input type="text" value="200,000.00"/> | \$ <input type="text" value="0.00"/> |
| 9. Construction | \$ <input type="text" value="5,814,135.00"/> | \$ <input type="text" value="2,180,990.00"/> | \$ <input type="text" value="3,633,145.00"/> |
| 10. Equipment | \$ <input type="text" value="250,000.00"/> | \$ <input type="text" value="250,000.00"/> | \$ <input type="text" value="0.00"/> |
| 11. Miscellaneous | \$ <input type="text" value="0.00"/> | \$ <input type="text" value="0.00"/> | \$ <input type="text" value="0.00"/> |
| 12. SUBTOTAL (sum of lines 1-11) | \$ <input type="text" value="9,182,235.00"/> | \$ <input type="text" value="4,996,890.00"/> | \$ <input type="text" value="4,185,345.00"/> |
| 13. Contingencies | \$ <input type="text" value="800,000.00"/> | \$ <input type="text" value="800,000.00"/> | \$ <input type="text" value="0.00"/> |
| 14. SUBTOTAL | \$ <input type="text" value="9,982,235.00"/> | \$ <input type="text" value="5,796,890.00"/> | \$ <input type="text" value="4,185,345.00"/> |
| 15. Project (program) income | \$ <input type="text" value=""/> | \$ <input type="text" value=""/> | \$ <input type="text" value=""/> |
| 16. TOTAL PROJECT COSTS (subtract #15 from #14) | \$ <input type="text" value="9,982,235.00"/> | \$ <input type="text" value="5,796,890.00"/> | \$ <input type="text" value="4,185,345.00"/> |
| FEDERAL FUNDING | | | |
| 17. Federal assistance requested, calculate as follows: | | Enter eligible costs from line 16c Multiply X <input type="text" value="50"/> % | \$ <input type="text" value="2,092,672.50"/> |

(Consult Federal agency for Federal percentage share.)
 Enter the resulting Federal share.

ASSURANCES - CONSTRUCTION PROGRAMS

OMB Number: 4040-0009
Expiration Date: 06/30/2014

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant:, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

| | |
|---|-------------------------------------|
| SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL David L Taylor | TITLE District Manager |
| APPLICANT ORGANIZATION Waurika Lake Master Conservancy District | DATE SUBMITTED 06/25/2015 |

Waurika Lake Water-Intake Channel Improvement Project

Waurika Lake Master Conservancy District (WLMCD)
5404 East 1890 Road
Waurika, OK 73573 - [View Map](#)
Jefferson County, Oklahoma
Phone: (580) 439-8838

For

Funding Opportunity Announcement No. R15AS00046

WaterSMART: Drought Resiliency Project Grants for Fiscal Year 2015

**U.S. Department of Interior
Policy and Administration
Bureau of Reclamation
Denver, Colorado**

June 2015

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1.0 Technical Proposal and Evaluation Criteria

1.1 Executive Summary

Waurika Lake Master Conservancy District (WLMCD)
5404 East 1890 Road
Waurika, OK 73573
Jefferson County, Oklahoma
Phone: (580) 439-8838



View of main pump house, looking north. Level is almost 19 feet low at this point.

This project will assure that parts of Southwest and South Central Oklahoma have water through the next drought cycle. The project will install an extension intake pipeline, 4,000 feet long from the deepest part of the lake, add a floating intake so water can be accessed from all lake elevations, and improve the intake gates by installing stainless steel gates. Preparation for the installations will require removal of approximately 80,000 cubic yards of sediment in the existing intake channel. The finished project will allow water to enter the floating intake, travel along the newly exposed intake channel via a pipeline, through the improved gates and into the existing pump house. The screens on the floating intake will also prevent any small fish or other organisms from getting into the pump house and pumps. This design improves the original design by: 1) eliminating the lake's dependence upon silt removal, 2) allowing water to be drawn from different areas as dictated by season or wind direction, and 3) improve the gates to the pump house.

The specific FOA objectives met are:

III B 1, Task A (page 9): **System modifications or improvements.**—Projects that will increase flexibility of water conveyance and deliveries, facilitating access to water supplies in times of drought. Projects include, but are not limited to:

- Construction or modification of surface water intakes to access supplies when water levels are low (i.e., at dead pool), or to allow access at different locations
- Construction of new conveyance system components (pipelines, canals, pumping plants, etc.), to increase flexibility to deliver water from different sources, to facilitate voluntary water marketing, or to deliver water from alternative sources.

III.B.4 Task D (page 12) – **Projects that Provide Protection for Fish, Wildlife, and the Environment**

- Installing and/or modifying fish screens, ladders, bypasses, and modifications to water intakes (e.g., selective or lowered intakes).

The project is estimated to take eleven months to complete from the start date. Start could be as early as August 2015 to November 2015.

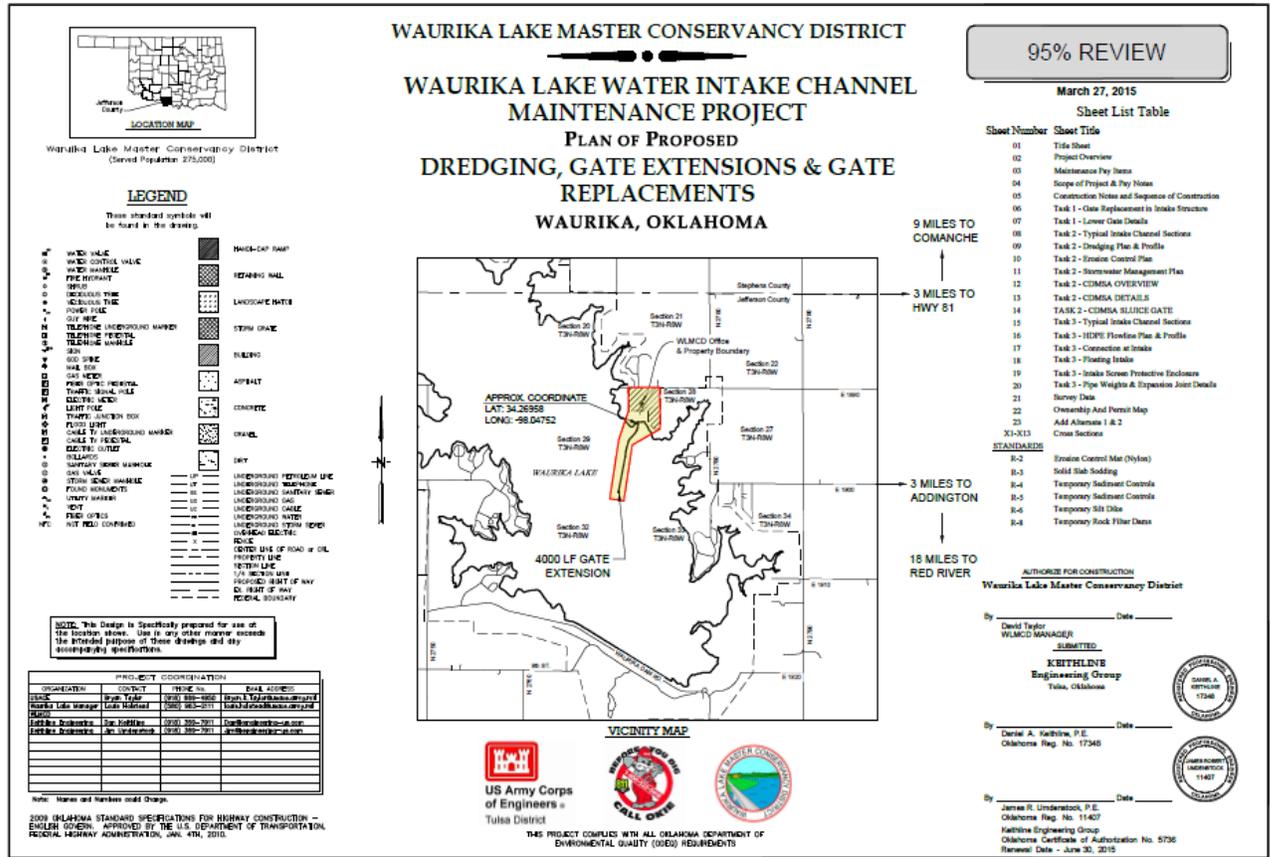
Waurika Lake Master Conservancy District is the local sponsor for Waurika Lake and wholly owns the piping, pumps, controls, transformers, pump houses and incoming power lines. 100% of the water rights for the firm yield of the lake are owned by the Conservancy District. 100% of the M&I storage has been purchased by the Conservancy District. Waurika Lake is a US Army Corps of Engineers lake and the Conservancy District draws water from it. Contracts govern the water and its use, similar to USBR contracts in other lakes in Oklahoma. Waurika began as a USBR lake and was switched for unknown reasons. There are many parallels between a USBR lake and Conservancy District and this lake and its Conservancy District. The main pump house is on an easement and the new pipeline will be as well.

The work described here is not routine maintenance. It is improvement work to assure the lake is able to routinely and reliably deliver a robust water supply. Lakes are expected to silt in as part of normal design and operation. This project reverses the effects of normal designed siltation, allows the water to be accessed throughout all of the drought cycle and allows the lake to operate outside of normal design.

NOTE: all print in blue are original questions for the application. Black is the response.

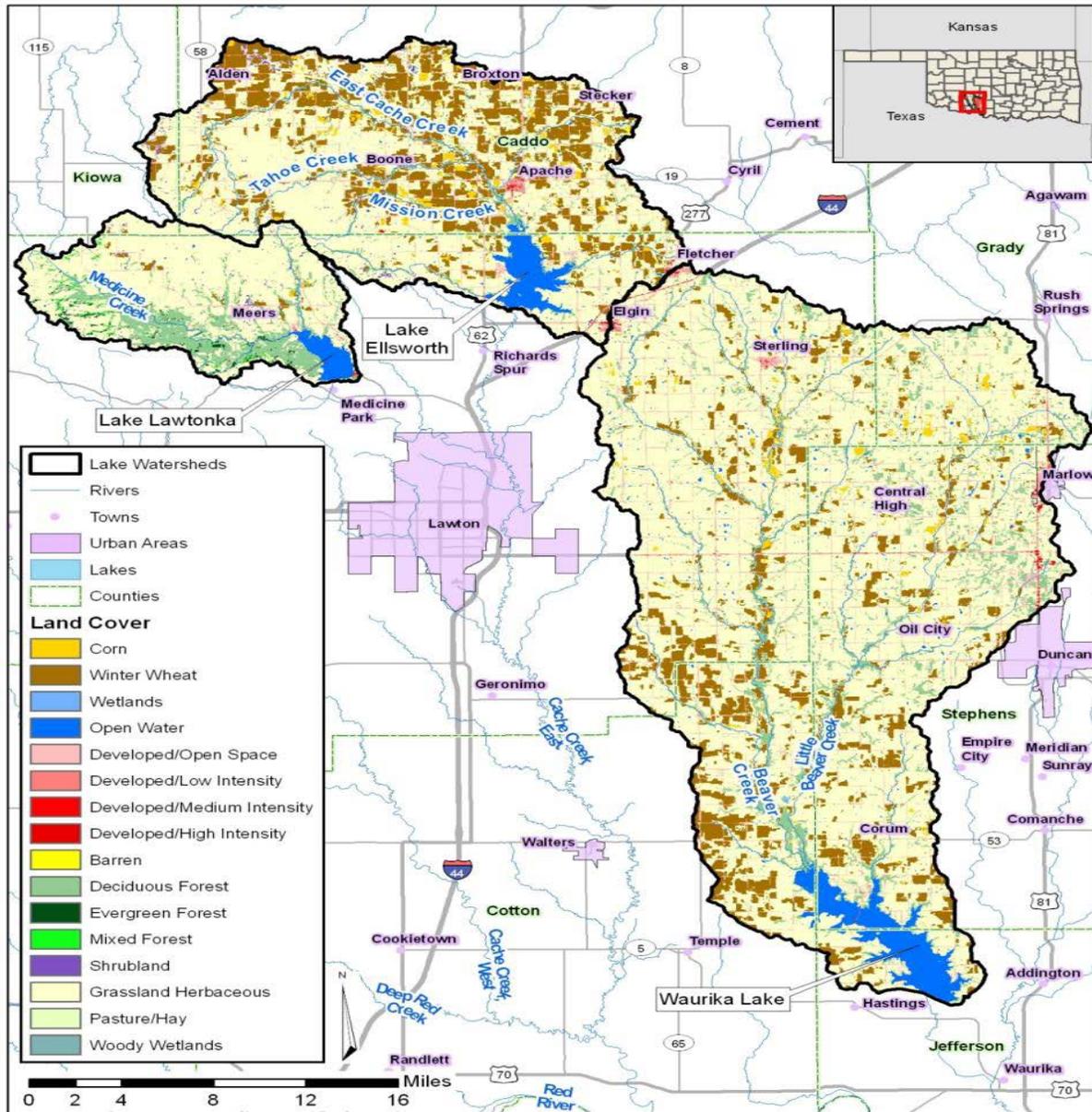
1.2 Background Data

Provided is a map of the area showing the geographic location (include the State, county, and direction from nearest town).



- As applicable, describe the source of water supply,

The source of supply is the Beaver/ Little Beaver creek watershed in South Central Oklahoma. It is nestled among the member cities of Lawton, Duncan, Walters, Temple, Comanche and Waurika. The watershed provides a dependable yield of 46,000 acre feet per year. At the project inception all unappropriated water rights in the watershed were assigned to the lake. The watershed is shown below on the East side of the drawing. The water is collected in Waurika and distributed to the member cities of Lawton-Ft Sill, Duncan, Comanche, Walters, Temple and Waurika via approximately 100 miles of pumps and piping.



The total quantity of water supply managed and supplied, the water rights involved.

The total quantity is the 46,000 acre feet of dependable yield. 100% of the water rights are assigned to the Waurika Lake Master Conservancy District by the Oklahoma Water Resources Board. (WLMCD is the successor to the Beaver Creek Cow Creek Association). Each member city has its own assigned allocation

based on contracts with each city. Operations and Maintenance and Power and other costs are based on the allocations. The cover page for the authorizing document is shown below. Page 39 of the authorizing document is below that. These documents gave rise to OWRB permits.

88th Congress, 1st Session *James H. Doolittle* Senate Document No. 33

WAURIKA RESERVOIR, BEAVER CREEK,
OKLAHOMA *Walter Rosten*

LETTER *Congressman*
Wickham

FROM

THE SECRETARY OF THE ARMY

TRANSMITTING *Sen. Kerr*

A LETTER FROM THE CHIEF OF ENGINEERS, DEPARTMENT OF THE ARMY, DATED MAY 6, 1963, TRANSMITTING A REPORT, TOGETHER WITH ACCOMPANYING PAPERS AND ILLUSTRATIONS, ON A REVIEW OF THE REPORT ON WAURIKA RESERVOIR, BEAVER CREEK, OKLAHOMA, REQUESTED BY A RESOLUTION OF THE COMMITTEE ON PUBLIC WORKS, UNITED STATES SENATE, ADOPTED ON OCTOBER 13, 1962

IRRIGATION



25+26
31
34
36+37+38 11
39 42
94
174

PRESENTED BY MR. RANDOLPH FOR MR. McNAMARA

SEPTEMBER 9, 1963.—Referred to the Committee on Public Works and ordered to be printed with illustrations

was irrigation Row / 14 AWR to make report
EOG's purchase

19. WATER RIGHTS

In Corps of Engineers projects, local interests must obtain all of the water rights necessary for project operation. The use of waters in the Beaver Creek Basin is subject to the laws of Oklahoma, which require local interests in Oklahoma to file application with the State for water rights in the projects. By letter dated May 21, 1957, the Beaver-Cow Creek Watershed Development Association requested the Assistant Secretary of the Interior to notify the Oklahoma Water Resources Board that the United States intends to develop for beneficial purposes all unappropriated waters in Beaver Creek and its tributaries originating above Oklahoma State Highway 5 and requested that said waters be withdrawn from further appropriations. By reply of June 7, 1957, the Oklahoma Planning and Resources Board stated that said water would be withheld. The Oklahoma Water Resources Board has furnished the Beaver-Cow-Creek Watershed Development Association an informal opinion that if the Corps of Engineers constructs the Waurika project within the time specified by Oklahoma Statute, the priority date of May 21, 1957, would prevail.

Current water use is for municipal and Industrial. Each member city has an assigned share. Waurika Lake has an irrigation feature, but it is not used and will be converted to municipal and Industrial.

- In addition, describe the applicant's water delivery or distribution system as appropriate.

These comments reference the drawing below.

The water delivery system begins at the lake and is divided into three pipelines. One is gravity feed to Waurika. It is approximately 6 miles of 16 inch diameter transite pipe. There is a control building at the south end with a Siemens MagMeter, control valves and telemetry feed to the SCADA system.

The East line starts at the main pump house at the North side of the Lake and is routed through a relift facility about ½ way to Duncan. The line also feeds Comanche. Pump system components include: four x 400 HP vertical turbine pumps at the lake each capable of 3,500 GPM. They pump to a 440,000 gallon tank at the relift facility. There 4 x 200 HP pumps drive the water the rest of the way to the Duncan water plant where another 440,000 gallon tank stores the water for use by the Duncan Water plant. The East line is a combination of 30 and 36 inch diameter AWWA L301 and AWWA B303 pipe. Each pump house has SCADA, telemetry, on/off controls and piping.

The West Line Starts at the lake as well. Its first pumps are 4 x 700 HP vertical turbine pumps, each capable of over 5,500 GPM. The total line length is about 45 miles. The pipe is 42 inch ID AWWA L301 and B303 pipe. At the midpoint of the pipeline is a relift facility. It has 4 x 600 HP horizontal split case pumps, each capable of 5,500 GPM. The water is delivered to the relift into a 1.7 Million gallon tank. From there the water is fed to the towns of Temple and Walters by gravity through a 12 and 10 inch Transite pipe. From the tank, the pumps deliver the water to both the Lawton South East Water Treatment Plant and Lake Ellsworth. Valves, controls and telemetry are all used to assure continuous flow.

The total system capacity is 47 MGD peak and 40 MGD continuous flow. Total installed horsepower is about 7,600 in all 3 pump houses.

The District also owns all the incoming power lines from the power company and the transformers to convert incoming power from 69,000 Volts to 4,160 volts.

The District feeds six cities through six meters. Approximately 250,000 people use Waurika Water either directly or indirectly via Rural Water Districts that receive water from the six cities.

The remote telemetry and SCADA system is being incrementally installed. At this point the District can monitor flow and pressure on each meter. That information is graphed and is accessible via smart phone or desktop. Improvements already experienced include better control of custom on/off cycles and very quick leak detection. The on/off cycle control is eliminating pipe leaks due to surge (water hammer) and the leak detection saves water.

has successfully helped the Oklahoma Legislature to alter some statutes. In addition, the Oklahoma Reclamation office has been very helpful to WLMCD as questions have arisen.

1.3 Technical Project Description

- The technical project description should describe the work in detail, including specific activities that will be accomplished as a result of this project. This description shall have sufficient detail to permit a comprehensive evaluation of the proposal.

The major work is as follows:

Below is an expanded version of the work description directly from the bid documents. The costs are from the documents supplied by the apparent low bidder:

1. Remove/Replace six (6) 4'x6' Gates, Frames, and Thimbles in intake structure. These gates will be replaced with stainless steel gates to improve operational flexibility, reduce corrosion susceptibility and prolong life of the lake pump house. Four will be replaced as underwater work, two will be replaced as above-water work. Total cost: \$410,000.
2. Construct/Manage/Operate 117,000 CY of Confined Dredge Material Storage Area (CDMSA) during dredging operation. This area will receive the dredged material, allow the sediment to settle and decant the clear water back to the lake. Cost: \$1,367,000.
3. Dredge 77,000 CY of deposited non-toxic silt/sediment material from Intake channel. Only hydraulic dredging with cutterhead allowed. Dredging equipment must utilize DREDGEPACK® software or approved alternate Real-Time GPS software. This dredging will eliminate the original design problem that did not allow for sedimentation of the lake. Cost: \$1,518,750
4. Install about 4000 LF of 42" (OD) DR17 HDPE (36.762" ID) Pipe down the centerline of Intake Channel with approximately 83 Full-Circle Concrete Pipe Anchors. This new piping will carry better quality water to the inlets than previously available at the lower levels. The water will be generally drawn from 10 feet below the surface in the center of the lake and water supply will not be dependent upon lake level.. Cost \$3,016,385.00
5. Install 30 MGD Floating Intake below a Navigation Buoy and connect to 42" ID HDPE with 100 LF of 36" (ID) SBR Flexible Hose. This intake will be equipped with strainer screens that will strain the water and prevent debris and fish from entering the pumping system. Cost: \$387,500.00.

The resultant lake will be drought resilient and efficient in that water can be drawn from different locations in the lake, not just different levels. The lake will no longer have to be dependent upon siltation issues and will be able to operate at all levels, even down to the very bottom.

1.4 Evaluation Criteria

1.4.1 Evaluation Criteria A – Project Benefits (40 points)

Up to **40 points** may be awarded based on the expected resiliency benefits of the proposed project.

Please describe how the proposed project will improve drought resiliency, including:

- How will the project build long-term resilience to drought? How many years will the project continue to provide benefits?

The lake will be able to deliver water through the end of the drought cycle. Currently 25,000 acre feet of water is inaccessible due to the original design. The design did not account for siltation of the inlet trench. We now will be able to draw higher-quality water from different locations as well as be able to operate at all levels as droughts progress.

- Will the project make additional water supplies available? If so, what is the estimated quantity of additional supply the project will provide and how was this estimate calculated? What percentage of the total water supply does the additional water supply represent?

There will be about 25,000 additional acre feet available.

- Will the project improve the management of water supplies? For example, will the project increase efficiency or increase operational flexibility (e.g., improve the ability to deliver water or access other sources of supply)? Will the project make new information available to water managers? If so, what is that information and how will it improve water management?

Operational flexibility will be enhanced since flexibility of water draw point will exist where none exist now.

- What is the estimated quantity of water better managed as a result of the project and how was this estimate calculated? What percentage of the total water supply is being better managed? Also provide a brief qualitative description of the degree/significance of anticipated water management benefits.

The entire lake conservancy pool (about 190,000 acre feet) will be better managed since we will be able to access water from the center of the lake, or switch to an upper gate near the north boundary of the lake. We then can choose the best water quality for use by the district customers.

If the proposed project includes any of the following components, please provide the applicable additional information:

- **Environmental/Wildlife Project**

- What are the types and quantities of environmental benefits provided, such as the types of species and their numbers benefited, acreage of habitat improved, restored or protected, or the amount of flow provided? How was this estimate calculated?

The environmental benefit will be fewer fish in the pump house that get caught in the pumps. Another benefit is that the plant operators can choose which inlet to use and diminish the amount of silty water that travels to the customers. That silt must be removed by the water plants and disposed of.

1.4.2 Evaluation Criteria B – Drought Planning and Preparedness (20 points)

Up to **20 points** may be awarded for a proposal based on the extent that the proposed drought resiliency project(s) is supported by an existing drought plan.

Proposals that demonstrate that the proposed project is clearly supported by an existing drought plan will be awarded the most points under this criterion. Such drought plans do not require Reclamation approval and may include plans prepared by someone other than the applicant (e.g., an existing State, county, municipal, or other plan is acceptable).

For purposes of evaluating this criterion, please:

- Attach a copy of the applicable drought plan, or sections of the plan, as an appendix to your application. These pages will not be included in the total page count for the application.

The City of Duncan drought plan directly addresses this project. The WLMCD drought plan does as well. Both are attached as an appendix. The Duncan plan clearly calls for the Waurika Project to be supported.

- Explain how the applicable plan addresses drought. Proposals that reference plans clearly intended to prepare for and address drought will receive more points under this criterion.
 - Explain whether the drought plan was developed with input from multiple stakeholders. Was the drought plan developed through a collaborative process?

The Duncan drought plan was developed by a non-political selected committee. They invited Waurika Lake management as well as others to discuss drought related issues as they prepared the plan. The unanimous conclusion was “For the region, do the Waurika project first”. The Waurika project was developed as a collaboration among: 1) The six member cities, 2) the US Army Corps of Engineers (for permitting), and 3) The Oklahoma Water Resources Board. All the member cities City Councils voted unanimously to support the project, The WLMCD Board voted unanimously on each step of the project to support, and the OWRB voted unanimously to fund up to \$10 Million for the project.

A steering committee of the cities city engineers and Public Works directors helped with design...

- Describe how the proposed project is prioritized in the referenced drought plan. For example, if the proposed project is for metering, is agricultural metering identified as a high priority project within the drought plan for the agricultural sector and is agriculture identified as a high priority sector for drought resilience?

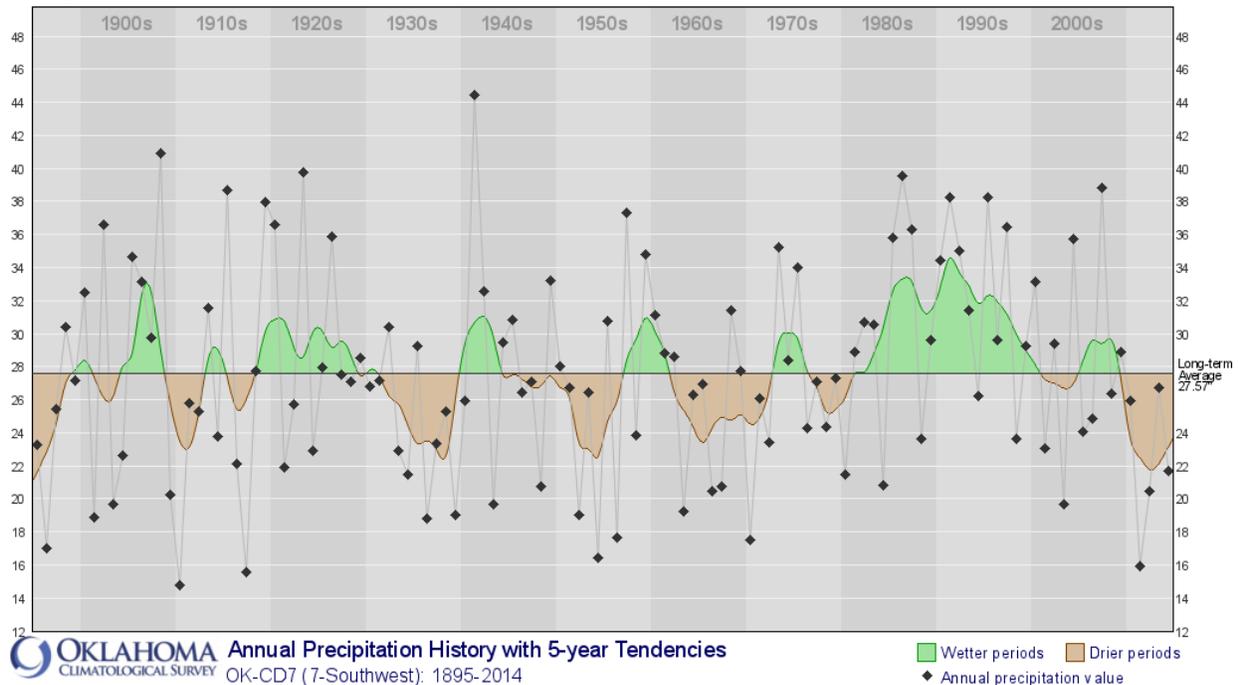
Both the Duncan plan and the WLMCD plan propose this project as “first and foremost”. The plans are attached as an appendix.

1.4.3 Evaluation Criteria C – Severity of Actual or Potential Drought Impacts (20 points)

Up to **20 points** may be awarded based upon the severity of effects of actual or potential drought in the proposed project area. Describe the severity of the current drought or the potential for experiencing a future drought, and the actual or potential drought impacts, including the following:

- Indicate whether the proposed project area is currently experiencing drought or has the potential for experiencing drought in the future

The graph below describes the drought/non drought conditions for SW Oklahoma since 1895. The graph shows inches of rainfall per year. The horizontal line is average and each diamond or dot is annual rainfall for a year. The curved line represents a 5 year moving average. Any 5 year average above the line is considered non-drought and any 5 year average below the line is considered drought. With two exceptions, SW Oklahoma has been one long drought with brief wet interruptions. Looking at the history since year 2000, it can be argued that we have had drought conditions since then with three and counting 2015, four years of interruption. It can be said that the current drought is over. However, examining the graph shows that there are spike years in every drought. Any way it is approached, water supplies need to be robust, reliable and resilient. For this project, the reliability and resiliency of Waurika Lake will be enhanced so that future generations will be able to have water through the drought.



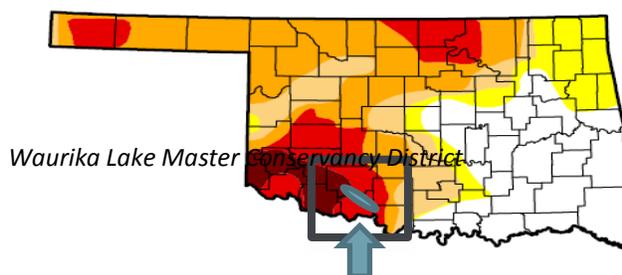
When looking at the Precipitation History provided above, the region had been in drought since 2010. The rains of May, 2015 filled the lakes. However the Cities and the Conservancy District maintained focus: The project must finish. Any day could be the start of the next drought. 2015 could easily be a “spike” year and the drought would continue past that. The drought monitor below as of 5/5/15 shows the extent of the drought. The Waurika service area is within the grey box and the lake is within the box.

Oklahoma

(Released Thursday, May 7, 2015)
 Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--------------------------------------|-------|-------|-------|-------|-------|-------|
| Current | 29.24 | 70.76 | 59.05 | 46.19 | 17.95 | 4.03 |
| Last Week 4/28/2015 | 30.08 | 69.92 | 58.29 | 47.51 | 24.34 | 4.13 |
| 3 Months Ago 2/5/2015 | 5.03 | 94.97 | 63.11 | 45.34 | 22.58 | 5.69 |
| Start of Calendar Year 12/30/2014 | 25.63 | 74.37 | 62.03 | 40.84 | 21.74 | 5.70 |
| Start of Water Year 9/30/2014 | 8.55 | 91.45 | 73.31 | 58.13 | 20.92 | 4.64 |
| One Year Ago 5/5/2014 | 6.67 | 93.33 | 80.65 | 65.94 | 48.86 | 29.85 |



Intensity:
 ■ D0 Abnormally Dry
 ■ D1 Moderate Drought
 ■ D2 Severe Drought
 ■ D3 Extreme Drought
 ■ D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
 Mark Svoboda
 National Drought Mitigation Center

Drought impacts included: Crop loss, income loss to cities causing hardship due to reduced services and rate increases, and several drownings due to entanglement in newly exposed trees and roots. There were some tensions among cities as misunderstandings arose over water usage

1.4.4 Evaluation Criteria D – No Criteria D provided in DOI-BOR FOA-R15AS00046

1.4.5 Evaluation Criteria E – Nexus to Reclamation (15 points)

Up to **15 points** may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and a Reclamation project or activity. Describe the nexus between the proposed project and a Reclamation project or activity, including:

- How is the proposed project connected to a Reclamation project or activity?
 - Does the applicant receive Reclamation project water?
 - Is the project on Reclamation project lands or involving Reclamation facilities?
 - Is the project in the same basin as a Reclamation project or activity?
 - Will the proposed work contribute water to a basin where a Reclamation project is located?
 - Will the project help Reclamation meet trust responsibilities to any tribe(s)?

Waurika Lake started as a Reclamation project. The original surveys, recommendations and design of the dam and conveyance systems was done by the US Bureau of Reclamation. The original legislation was contained in House Document 232, 87th Congress. It was re-introduced in HB 2062, 88th Congress and was described in Senate Document 33, 88th Congress. It passed the 88th Congress. At some time, the Lake changed from a Bureau project to a US Army Corps of Engineers project. The project was installed essentially as originally designed. The district is a member of the Oklahoma Association of Reclamation Projects (OARP) and the district manager was president of the OARP for 3 years. The OARP has successfully helped the Oklahoma Legislature to alter some statutes. In addition, the Oklahoma Reclamation office has been very helpful to WLMCD as questions have arisen. The projects now share information about operational issues, water rights issues and sometimes spare parts.

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1.4.6 Evaluation Criteria F – Project Implementation (5 points)

Up to **5 points** may be awarded based upon the extent to which the proposed project is capable of proceeding upon entering into a financial assistance agreement. Applicants that describe a detailed plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.

- Describe the implementation plan of the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates. *(Please note that under no circumstances may an applicant begin any ground-disturbing activities, including grading, clearing, and other preliminary activities, on a project before environmental compliance is complete and Reclamation explicitly authorizes work to proceed).*
- Describe any permits that will be required, along with the process for obtaining such permits.
- Identify and describe any engineering or design work performed specifically in support of the proposed project.
- Describe any new policies or administrative actions required to implement the project.

This project is progressing well. The design is done. Most of the financing is in place or approved. The bids were opened 23 June 2015 so the bid costs are known. The bonds will be bid in mid-July and the financing closed out in August. The schedule is shown below. Once the contractor receives the notice to proceed, project elapsed time will be 11 months or less. The US Army Corps of Engineers permits should be in place by mid-July. Once they are in place and the financing deal is signed, the contractor will proceed.

The WLMCD has already spent approximately \$670,000 for testing, engineering, USACE work and design. WLMCD has approximately \$1.2 Million more to add to the project to help with costs. The remainder will be financed by the Oklahoma Water Resources Board loan program, up to \$10 Million. Each phase of the project was approved by the WLMCD board (every vote unanimous), the project and approval to apply for the loan was approved by each member city council (each unanimous) and the OWRB approved the loan (unanimously).

1.5 Performance Measures

Measures should include:

1. Sediment was removed safely and within budgeted cost.
2. New gates seal and are installed safely and within budget.
3. New pipeline and floating intake draw water and were installed within budget.
4. During the next dry cycle, the lake is able to operate at the lower levels and draw from the new system to provide water to the member cities.

END OF TECHNICAL PROPOSAL

2.0 Environmental and Cultural Resources Compliance

To allow Reclamation to assess the probable environmental and cultural resources impacts and costs associated with each application, all applicants must respond to the following list of questions focusing on the NEPA, ESA, and NHPA requirements. Please answer the following questions to the best of your knowledge. If any question is not applicable to the project, please explain why. Additional information about environmental compliance is provided in Section IV.D.8 – Project Budget, under the discussion of Environmental and Regulatory Compliance Costs, and in Section VIII.A – Overview of Environmental and Cultural Resources Compliance Requirements.

The application should include the answers to:

1. Will the project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.

The land-based portion of the project will include construction of the Confined Dredged Material Storage Area (CDMSA) on WLMCD non-federal property adjacent to USACE federal property. As part of the Section 408 process (see Section 4.0 for description of the process), an Environmental Assessment (EA) was prepared for the project which is under final review by USACE-SWT's ATR. This environmental assessment included NEPA, ESA and NHPA elements which included: social and economic impacts, natural resources impacts, wetlands and water quality impacts, ESA screening, USDA-NRCS soils and ecological site assessment report, USF&WS wetlands and ecological screening, USDA prime farmland screening; air quality and noise screening; water and dredged material hazardous & toxic chemical analyses screening; a cultural, historical and archeological (NHPA) screening; wildlife and habitat screening, fisheries screening, and geotechnical study of the lands to be impacted by the project with findings of no significant impacts.

2. Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

Endangered or threatened species listings are provided in our EA for the project. Several are migratory birds which require vigilance during construction/maintenance activities to ensure actions do not create an attractive nuisance to work areas which could lead to possible detrimental harm to migratory birds.

No critical habitat was found for Jefferson County, Oklahoma using the DOI-USF&WS Critical Habitat Portal. For Jefferson County, OK there are no State-listed Threatened and Endangered Species. Federal-listed Threatened and Endangered Species are maintained by the U.S. Fish and Wildlife Service, the federal agency that administers the Endangered Species Act in Oklahoma. Federally listed endangered and threatened species in Jefferson County may include:

- Whooping Crane (*Grus americana*) – endangered
- Interior Least Tern (*Sterna antillarum*) - endangered
- Piping Plover (*Charadrius melodus*) - threatened

Further project area specific screening was completed using the DOI-USF&WS's Information, Planning and Conservation (IPaC) System. The USF&WS IPaC report for the project APE and Migratory Bird mitigation guidance measures indicate five birds (including those listed above) may be found in the project vicinity as follows:

- Interior Least tern – endangered
- Piping Plover – threatened
- Red Knot (*Calidris canutus rufa*) – threatened
- Sprague's Pipit (*Anthus spragueii*) – candidate
- Whooping crane - endangered

There are no adversely impacted critical habitats within the project area. There are no refuges found within the vicinity of the project. There are 23 migratory birds that may be affected by project activities which are listed in the project's IPaC report.

3. Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States?" If so, please describe and estimate any impacts the project may have.

No wetlands are in the immediate vicinity of the proposed project. Therefore, no wetland impacts are associated with the project.

4. When was the water delivery system constructed?

The intake-channel and gate intake structure was constructed during reservoir construction in 1976-77 to which this maintenance improvement project is focused on. The associated three conveyance systems from the inlet structure to the various customer cities were constructed between 1977 and 1982. Filling of the reservoir and start of operations by USACE began 1 August 1977 and the reservoir filled to conservation pool level by 17 May 1982.

5. Will the project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

No irrigation systems will be impacted by maintenance improvements performed by this project.

6. Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.

A cultural resources survey has been done for all federal and non-federal lands impacted by the project (called Area of Potential Effects, AEP) and no buildings, structures or features were found eligible for NRHP listing and no artifacts were found of any significance. Both the Oklahoma Historical Center SHPO officer and state archeologist concurred with our findings of no significance.

7. Are there any known archeological sites in the proposed project area?

No, as verified by our on-site cultural resources survey.

8. Will the project have a disproportionately high and adverse effect on low income or minority populations?

No. The project supports the water supply needs of and is vital to local communities which serve minority and low income citizens.

9. Will the project limit access to and ceremonial use of Indian sacred sites or result in other impacts on tribal lands?

No. The project site is located within the former treaty boundary of the Kiowas, Comanches and Apaches dated 21 Oct 1867 as depicted by the 11th Census of the United States (Map of Indian Territory & Oklahoma, 1890). The cultural survey also included Native American cultural attributes including ceremonial grounds or areas used by tribes. All local tribes (Apache, Ft Sill Apache, Kiowa, and Comanche Nations) and neighboring tribes (Chickasaw Nation to the east) were sent a copy of the cultural resources survey completed for the project for comment. The tribe most closely associated to the project area is the Comanche Nation. Response from the THPO of the Comanche Nation indicated no tribal properties will be affected by the proposed project.

10. Will the project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

No. The project EA describes the Oklahoma Department of Wildlife Conservation's (ODWC) Aquatic Nuisance Species (ANS) Program (Aquatic lifeforms) to which this project will comport. The Aquatic Nuisance Species (ANS) Program was developed by the ODWC in 2008 with the creation of the ANS Management Plan. This ODWC document is the reference guide for the program and also enables ODWC to seek federal funding for projects related to aquatic nuisance species. The program is geared toward outreach and education but also focuses on early detection and rapid response of aquatic invasions.

Definition of Aquatic Nuisance Species: ANS are nonindigenous aquatic species that pose significant ecological and economic threats to aquatic ecosystems. This can include fish, aquatic plants, algae, invertebrates, mussels, viruses, and other aquatic pathogens.

ODWC's guidance to help prevent the spread of aquatic nuisance species includes:

- When leaving a body of water, be sure to remove any visible plants or mud from your boat and gear, drain all water including bilges, bait buckets, and live wells, and clean anything that came in contact with the water.
- Also never release any plants or animals into a body of water unless they originated there.
- Please contact the wildlife department if you think you have discovered any invasive species.

Aquatic Nuisance Species in Oklahoma

- Asian Carp
- Didymo
- Golden Alga
- Harris Mud Crab
- White Perch
- Zebra Mussels
- List of Noxious Aquatic Plants (discussed below)

The following is discussion and citation of the ODWC noxious aquatic plant administrative rulemaking.

ODWC’s “noxious aquatic plants” rule will establish a list of declared noxious aquatic plants and a list of plant species classified as "species to watch" which will not be declared noxious at this time. By law, the ODWC is given the authority (29 6-601) to designate and declare any aquatic plants as "noxious", if they "may cause injury to the environment of the state". This proposal would reduce the risk and prevent the spread of noxious aquatic plants which are being sold and distributed through the backyard water gardening trade. Some of these plants could have a detrimental impact if accidentally or intentionally released into Oklahoma's aquatic environment.

**OAC 800:20-3 Department of Wildlife Conservation
SUBCHAPTER 3. NOXIOUS AQUATIC PLANTS**

Section

800:20-3-1. Purpose

800:20-3-2. List of restricted noxious aquatic plant species

800:20-3-3. Penalties

[Authority: 29 O.S., Sections 3-103, 6-601]

[Source: Codified 3-5-91]

800:20-3-1. Purpose

The purpose of this chapter is to describe rules pertaining to noxious aquatic plants and/or their seeds, stems or parts in Oklahoma pursuant to 29 O.S., Section 6-601.

800:20-3-2. List of declared noxious aquatic plant species

(a) Pursuant to 29 O.S. Section 6-601, the following plants, seeds or plant parts are hereby declared to be noxious:

| Name | Common Name |
|--|---|
| <i>Azolla pinnata</i> | Mosquito Fern (Water Velvet, Water Fern) |
| <i>Caulerpa taxifolia</i> | Caulerpa (Mediterranean Clone of Caulerpa) |
| <i>Eichhornia azure</i> | Anchored Water Hyacinth (Rooted Water Hyacinth, Blue Water Hyacinth, Saw-petal Water Hyacinth) |
| <i>Hydrilla verticillata</i> | Hydrilla (Florida Elodea, Star Vine, Oxygen Plant, Oxygen Weed) |
| <i>Hygrophila polysperma</i> | Hygro (Miramar Weed, Green Hygro, Oriental Ludwigia, East India Hygrophila) |
| <i>Ipomoea aquatica</i> | Water Spinach (Swamp Morning Glory, Chinese Water Spinach, Water Bindweed, Aquatic Morning Glory) |
| <i>Lagarosiphon major</i> | African Elodea (Oxygen Weed) |
| <i>Limnophila spp.</i> | Ambulila (Asian Marshweed, Limno, Red Ambulia, Indian Ambulia) |
| <i>Lythrum salicaria</i> | Purple Loosestrife (Loosestrife) |
| <i>Marsilea</i> | Marsilea (European Waterclove, Four-Leaf Clover Fern, Water Fern, Water Clover, Hairy Pepperwort) |

| | |
|--|---|
| <u>quadrifolia</u> | |
| <u>Marsilea mutica</u> | Australian Waterclover (Variegated Water-Clover, Nardoo) |
| <u>Marsilea minuta</u> | Waterclover |
| <u>Melaleuca quinquenervia</u> | Paperbark Tree (Melaleuca, Cajeput, Punk) |
| <u>Monochoria hastata</u> | Cat's Claw (Monochoria) |
| <u>Ottellia alismoides</u> | Duck Lettuce |
| <u>Sagittaria sagittifolia</u> | Japanese Arrowhead (Hawaiian Arrowhead, Common Arrowhead, Chinese Arrowhead) |
| <u>Salvinia spp.</u> | All giant and common Salvinia species (Salvinia, Butterfly Fern, Water Fern, Water Moss, Water Velvet, Karibaweed, Water Spangles, Floating Fern, Koi Kandy and South American Pond Fern) |
| <u>Solanum tampicense</u> | Wetland Nightshade |
| <u>Sparganium erectum</u> | Exotic Bur-reed |
| <u>Glossostigma diandrum</u> | Mud Mat |
| <u>Alternanthera spp.</u> | Alligatorweed and congeneric species (Alligator-Weed, Chaff Flower, Lilacina) |

(b) The following species are classified as “Species to Watch” and are not currently listed as noxious aquatic plants. However, they are aquatic plants whose impact on the Oklahoma environment is presently unknown, and therefore, may be considered for inclusion on the noxious aquatic plant list (above) as additional information becomes available to, and as deemed necessary by, the Department of Wildlife Conservation:

| Scientific Name | Common Name |
|---|---|
| <u>Colocasia esculenta</u> | Wild Taro (Green Taro, Elephant Ear, Taro, Dasheen) |
| <u>Egeria densa</u> | Brazillian Waterweed (Common Water Weed, Brazillian Elodea, Anacharis, Oxygen Weed, Elodea) |
| <u>Eichhornia crassipes</u> | Floating Water Hyacinth (Water-hyacinth) |
| <u>Hydrocleys nymphoides</u> | Water-poppy (Hydrocleys, Hydrocleis) |
| <u>Iris pseudacorus</u> | Yellow Iris (Yellow Flag, Yellow Flag Iris) |
| <u>Ludwigia hexapetala</u> | Uruguay Seedbox (Water Primrose) |
| <u>Myriophyllum spicatum</u> | Eurasian Watermilfoil (European Watermilfoil, Watermilfoil, Fox Tail) |
| <u>Myriophyllum aquaticum</u> | Parrotfeather (Parrot's Feather, Watermilfoil, Golden Myriophyllum) |
| <u>Najas minor</u> | Brittle Naiad (Slender Naiad, Spiny Leaf Naiad) |
| <u>Nymphoides peltata</u> | Yellow Floating Heart (Floating Heart) |
| <u>Panicum repens</u> | Torpedo Grass (Torpedograss) |
| <u>Pistia stratiotes</u> | Water Lettuce |
| <u>Spirodela punctata</u> | Dotted Duckweed, Spotted Duckweed, Giant Duckweed) |
| <u>Trapa natans</u> | Water Chestnut (European Water Chestnut) |

[Source: Added at 18 Ok Reg 2918, eff 7-1-01; Amended at 19 Ok Reg 1525, eff 7-1-02; Amended at 23 Ok Reg 1582, eff 7-1-06]

800:20-3-3. Penalties

Any person violating these Chapter provisions shall be subject to the penalties provided in 29 O.S., Section 6-601.

[Source: Added at 18 Ok Regulation 2919, effective 7-1-01]

ODWC brochure on invasive species prevention found at <http://www.wildlifedepartment.com/fishing/ans/HACCPbrochure.pdf>

Note, if mitigation is required to lessen environmental impacts, the applicant may, at Reclamation's discretion, be required to report on progress and completion of these commitments. Reclamation will coordinate with the applicant to establish reporting requirements and intervals accordingly.

Under no circumstances may an applicant begin any ground-disturbing activities (including grading, clearing, and other preliminary activities) on a project before environmental compliance is complete and Reclamation explicitly authorizes work to proceed. This pertains to all components of the proposed project, including those that are part of the applicant's non-Federal cost-share. Reclamation will provide a successful applicant with information once environmental compliance is complete. An applicant that proceeds before environmental compliance is complete may risk forfeiting Reclamation funding under this FOA.

If you have any questions, contact your regional or area Reclamation office with questions regarding ESA compliance issues. You may also contact Ms. Avra Morgan at 303-445-2906 or aomorgan@usbr.gov, for further information.

3.0 Existing Drought Contingency Drought Plan(s) (see Appendix A)

There are two plans, by City of Duncan and WLMCD.

Required Permits or Approvals 4.0 Required Permits or Approvals

Applicants must state in the application whether any permits or approvals are required and explain the plan for obtaining such permits or approvals.

Note that improvements to Federal facilities that are implemented through any project awarded funding through this FOA must comply with additional requirements. The Federal government will continue to hold title to the Federal facility and any improvement that is integral to the existing operations of that facility. Please see P.L. 111-11*, Section 9504(a)(3)(B). Reclamation may also require additional reviews and approvals prior to award to ensure that any necessary easements, land use authorizations, or special permits can be approved consistent with the requirements of 43 CFR Section 429, and that the development will not impact or impair project operations or efficiency.

*Omnibus Public Land Management Act of 2009

The project is subject to approvals and permitting associated with federal property under the jurisdiction of the Department of the Army, Corps of Engineers (Civil Works Project), Water Resources Policies and Authorities provided in Engineering Circular (EC) 1165-2-216 dated 31 July 2014 entitled "*Policies and Procedural Guidance for Processing Requests to Alter U.S. Army Corps of Engineers Civil Works Projects Pursuant to 33 U.S.C. 408*" commonly called the USACE Section 408 permitting process. Primary statutory authority for USACE to grant permission for temporary or permanent alterations is contained in Section 14 of the Rivers and Harbors Act of 1899 and codified as 33 U.S.C. 408.

The project is currently completing the Section 408 Agency Technical Review (ATR) process being conducted by the Tulsa District, Southwestern Division office in Tulsa, OK which should be completed with the District Engineer's (DE) Notification letter to proceed by the end of July 2015. Associated with the Section 408 permit will be USACE federal real estate grants of easements to portions of the shoreline and lake access necessary to complete the project.

In addition, other permits needed include:

1. USACE Nationwide Permit 12 (NWP-12: Utility Line Activities) is necessary for the gate extension pipeline installation part of the project (Task 3) and
2. NWP-16 (Return Water from Upland Contained Disposal Area) is necessary for the dredging and dredge material disposal portion of the project (Task 3).

These permits are pending and will be issued after the USACE Section 408 DE Notification letter is issued. The NWP-16 permit will also require Clean Water Act Section 401 (Oklahoma Department of Environmental Quality, ODEQ) water quality certification to complete the process. We are in the final stages of approval for ODEQ certification of the NWP-16 permit.

Finally, surface construction activities of the project require a Clean Water Act (CWA) Section 404 NPDES permit with Section 401 Certification for the control of construction storm water runoff from land areas impacted by the project. There is an existing NPDES permit authorized and certified by the ODEQ for the project. Effluent limitations for total suspended solids and pH are stipulated in the permit.

5.0 Letters of Project Support (See Appendix B)

Numerous Letters exist and are in the appendix.

6.0 Official Resolution(s) (See Appendix C)

The resolution is the appendix

7.0 Project Budget

The project budget includes:

7.1 Funding Plan and Letters of Commitment (See Appendix D)

Describe how the non-Reclamation share of project costs will be obtained. Reclamation will use this information in making a determination of financial capability.

Project funding provided by a source other than the applicant shall be supported with letters of commitment from these additional sources. This is a **mandatory requirement**. Letters of commitment shall identify the following elements:

- The amount of funding commitment
- The date the funds will be available to the applicant

- Any time constraints on the availability of funds
- Any other contingencies associated with the funding commitment

Project Funding will be sourced as follows: (both letters in appendix)

- a) All of \$ 1,259,816.45 as available from loan FAP-10-003-L as described in the letter dated 5/20/15.
- b) All of \$10,000,000 as described in letter dated 6/19/2015.

Commitment letters from third party funding sources should be submitted with your project application. If commitment letters are not available at the time of the application submission, please provide a timeline for submission of all commitment letters. Cost-share funding from sources outside the applicant's organization (e.g., loans or State grants), should be secured and available to the applicant prior to award.

Reclamation will not make funds available for a Drought Resiliency Project Grant until the recipient has secured non-Federal cost-share. Reclamation will execute a financial assistance agreement once non-Federal funding has been secured or Reclamation determines that there is sufficient evidence and likelihood that non-Federal funds will be available to the applicant subsequent to executing the agreement (Section III.E – Cost-Sharing Requirement).

The amount of the non-Federal cost share is available now per the first letter. The rest of the funds will be available as soon as the second loan closes in late July.

The funding plan must include all project costs, as follows:

- How you will make your contribution to the cost-share requirement, such as monetary and/or in-kind contributions and source funds contributed by the applicant (e.g., reserve account, tax revenue, and/or assessments).

The loans should cover the remaining cost of the project.

- Describe any in-kind costs incurred before the anticipated project start date that you seek to include as project costs. Include:
 - Identify what project expenses have been incurred and describe the amount of the expense
 - The date of cost incurrence
 - How these costs benefit the project

The costs incurred pre-project approval were engineering and study costs. WLMCD considers those costs part of the WLMCD contribution to the project. Pre 7/1/2014 costs were \$132,191.33 and are not considered eligible anyway. Post 7/1/2014 costs are \$540,478.84.

- Provide the identity and amount of funding to be provided by funding partners, as well as the required letters of commitment.

All other funding will source from the Oklahoma Water Resources Board loan program.

- Describe any funding requested or received from other Federal partners. *Note: other sources of Federal funding may not be counted towards your 50 percent cost-share unless otherwise allowed by statute.*

There is none.

- Describe any pending funding requests that have not yet been approved, and explain how the project will be affected if such funding is denied.

All necessary funding requests have been approved.

Appendix C – Official Resolution

C.1 WLMCD Board Resolution

Waurika Lake Master Conservancy District

Existing and future drought relief and mitigation possibilities

These ideas/plans are broken into three segments: Existing plans, other possibilities for current drought, and future drought mitigation. These ideas provide a basis for possible actions assuming the drought persists for several more years.

Existing drought relief plans:

1. Install a replacement intake pipeline. This allows immediate access to the final 25,000 acre feet of Waurika Lake and provides operational latitude.
2. Remove silt to be able to use existing pump house, returning pump house to original operating design.

Other possibilities for current drought:

3. Consideration of well drilling on federal land in the wildlife areas.
4. Consideration of well drilling along pipeline right-of-way and other lands within the watershed.
5. Capture either Claridy/Cow or Cache creeks and pipe water to Waurika or its pipelines.
6. Reduce evaporation by some mechanical means, e.g. "WaterSaver" product.
7. Cloud seeding

Possibilities for future drought mitigation:

5. Pump future floodwaters to District reservoirs. This will allow WLMCD to aid US Army Corps of Engineers efforts to remove floodwater.
6. Provide a "seasonal pool" for Waurika Lake.

7/22/14

Duncan Short Term Water Plan

The Duncan Short Term Water Plan is meant to represent a two year outline, in regards to how we should proceed to wisely manage our water resources. The culmination of work done by the City of Duncan, the Duncan City Council, the Waurika Lake Master Conservancy District, the Duncan Area Economic Development Foundation, the Duncan Water Advisory Committee, Chris Deal, Scott Vaughn, and many others. The over riding lesson derived from this work, is that a long term water plan for Duncan is needed to make sure we provide adequate water in the future for ourselves and our progeny.

The first plan must be limited in scope. There is long term planning going on, but as a first step it is good for the city to outline it's current projects and anticipated projects for the next two years. Making this clear will aid in the long term planning as it makes clear where we are and will be at within the timeframe in which any long term projects could be implemented.

First things first

We must identify a limited amount of priorities, specific and crucial items that we can take positive action on. While there are many other important concerns of our water system, these five priorities deserve the majority of our attention and funding in the next two years.

Five Priorities for the next two years:

Conserve

Duncan Owned Lakes

Waurika Lake

Mid and long term water plan

New water sources, for future drought mitigation

Priorities

Conservation

Duncan has proven that it can and will conserve water when called upon to do so. We should keep at it, we should make conservation a part of future planning, encouraging the use of low-flow fixtures and gray-water plumbing for non potable water uses.

Conservation should not be about restraining vital and valuable water use, but rather minimizing wasteful use. There are environmental stresses that make our conservation policy best practiced on a sliding scale, with predetermined check points to stimulate proactive conservation which can be reasonably implemented with minimal additional cost to the user.

Duncan Owned Lakes

We have the full rights to four lakes: Duncan Lake, Clear Creek Lake, Lake Humphreys, and Fuqua Lake. These lakes have tremendous value to our community. While additional tax dollars, lake licenses, and various other lake incomes enrich our community financially, more importantly the people of Duncan enjoy and appreciate our lakes for how they enrich each of us. We are happy to share them with our neighbors, but we should care for them based on what they mean to many of us. The Duncan Lakes Commission should be given vigorous public and institutional support.

Waurika Lake

Waurika lake has become our primary and generally only source of daily potable water use. It holds a vast majority of our drinkable water stores and should be cared for with this in mind.

Strong support should continue to be given to the Waurika Lake Master Conservancy District(WLMCD) and director Dave Taylor. They have provided forward-minded, communicative and conservative management for the lake. They have consistently and fairly protected the interests of all regional members, including Duncan.

Mid and long term water plan

The work being put in by the various partners in Duncan water to develop a long term plan for the city should continue. The recent drought could be the new normal in regards to precipitation and temperature, a good plan will help us negate the negative effects of future droughts.

New water sources

A good plan to access a large new source of water not tied to the weather patterns which affect our lakes should be lined out for possible future implementation. The information gathered for the long term plan should include details of possible additional water sources, which can most efficiently be accessed by Duncan.

Projects

The City of Duncan with the approval of the Duncan City Council have started multiple projects which will improve our water system and increase the amount of immediately accessible water to the city.

ONGOING

Waurika Lake Refurbish Project(expected completion: late 2015)

All of Duncan's water partners strongly support the forthcoming refurbish project at Waurika Lake. The work involves the replacement of gates on the pump house, dredging of the intake channel and running a pipe out to the center of the lake for a new floating intake. This project allows improved access to the conservation pool, adding over a billion gallons to Duncan's accessible water stores.

Connect Clear Creek and Lake Humphreys(expected completion: fall 2015)

Gives Duncan access to the water in Clear Creek and gives us additional storage for surplus water from Lake Humphreys or Waurika Lake.

Connect Lake Humphreys to Waurika Lake(expected completion: summer 2015)

Provides a way to store water from our daily allotment of Waurika Lake water. With the dredging project about to begin at Waurika Lake it is wise to store as much water as possible in our other lakes to be prepared should anything cause us to lose access to Waurika Lake for an extended amount of time.

Duncan Water Advisory Committee planning(expected completion: fall 2015)

After a water summit between the Duncan City Council and the Duncan Area Economic Development Foundation in February of 2015, it was agreed to create a water advisory committee to direct the creation of a mid and long term water plan for the city. The committee is composed of nine citizens who have recently hired a hydrology firm to provide the needed studies to best determine how to keep Duncan water secure for the next 50 years.

RECOMMENDED

Adjust water pricing

The water rates must be brought inline with regional prices. Properly adjusted rates will be needed to properly maintain current infrastructure and to fund projects to help mitigate the effects of future droughts.

Lakes Commission

The vacancies on the Duncan Lakes Commission should be filled asap. To better engage the public with the commission's work, it is recommended that they present a report once each quarter to the city council and answer questions from the council and the public. This way people can know how the lakes are being cared for.

JAMES M. INHOFE, OKLAHOMA, CHAIRMAN

DAVID VITTER, LOUISIANA
JOHN BARRASSO, WYOMING
SHELLEY MOORE CAPITO, WEST VIRGINIA
MIKE CRAPO, IDAHO
JOHN BOOZMAN, ARKANSAS
JEFF SESSIONS, ALABAMA
ROGER WICKER, MISSISSIPPI
DEB FISCHER, NEBRASKA
MIKE ROUNDS, SOUTH DAKOTA
DAN SULLIVAN, ALASKA

BARBARA BOXER, CALIFORNIA
THOMAS R. CARPER, DELAWARE
BENJAMIN L. CARDIN, MARYLAND
BERNARD SANDERS, VERMONT
SHELDON WHITEHOUSE, RHODE ISLAND
JEFF MERKLEY, OREGON
KIRSTEN GILLIBRAND, NEW YORK
CORY A. BOOKER, NEW JERSEY
EDWARD J. MARKEY, MASSACHUSETTS

United States Senate

COMMITTEE ON ENVIRONMENT AND PUBLIC WORKS
WASHINGTON, DC 20510-6175

RYAN JACKSON, MAJORITY STAFF DIRECTOR
BETTINA POIRIER, DEMOCRATIC STAFF DIRECTOR

June 25, 2015

Mr. Estevan López
Commissioner
Bureau of Reclamation
1849 C Street NW
Washington DC 20240-0001

Dear Commissioner López:

Please accept this letter as in indication of my support for Waurika Lake Master Conservancy District's (WLMCD) recently submitted application for the United States Bureau of Reclamation (USBR) Drought Resiliency grant. Waurika Lake is in need of renovation to create greater access to water and mitigate the effects of future droughts.

The WLMCD serves the cities, extended communities, and military communities of Duncan, Lawton-Ft Sill, Comanche, Waurika, Temple and Walters. The residents, economy, and the Ft. Sill U.S. Army Base depend on Waurika Lake for their crucial water supply, which is currently inhibited and in need of mechanical improvements. WLMCD intends to use grant money, along with local partnership, to remove sediment that is blocking access to the water at lower lake levels, and to install a new pump house inlet gates with improved models, an underwater inlet piping and a floating inlet structure to assure continuous access to water.

The Waurika Board, all cities previously mentioned, and the Oklahoma Water Resources Board have voted to commit their support for this project and will provide dollar for dollar match with the USBR Drought Resiliency grant to the maximum \$300,000 award ceiling. This money is essential to successfully finance the estimated cost of \$10-\$12 million to complete the goals of the project.

Prioritizing funding for this project will have far reaching impacts on the local communities and advance the mission of the Ft. Sill U.S. Army Base. Improvements in the accessibility of water and drought mitigation are necessary to meet demand and avert a crisis. I appreciate your thoughtful consideration of this request. Should your staff have further questions, please contact Jennie Wright in my Washington, D.C. office at (202) 224-4721 or jennie_wright@inhofe.senate.gov.

Sincerely,



James M. Inhofe
Chairman
Senate Environment and Public Works Committee

David Mitchell – Ward 4 Mayor
Roberta Ellis – Council Member at Large
Bob Nance – Ward 2
Steve McCammon – Ward 3
Richard Anderson – Ward 1



The City of Walters

Municipal Light, Water and Sewer Plants

John Sheppard, City Manager

(580) 875-3337 • Fax - (580) 875-2289

129 East Colorado Avenue

P.O. Box 485

Walters, Oklahoma 73572

June 22, 2015

To Whom It May Concern:

I am drafting this letter to indicate our support for the Waurika Lake Master Conservancy District's application for a U.S. Bureau of Reclamation Drought Resiliency Project Grant. The District has undertaken a project to recover water stored in the lake that has become unavailable due to sediment. Sediment retainage was a criterion of the projects original purpose and the lake has been very effective in capturing sediment that would have otherwise moved down stream, causing other problems. Unfortunately, sediment control has resulted in significant problems in accessing stored drinking water.

The City of Walters, Oklahoma is an original member of the District and is committed to the long term viability of the district as a source of municipal drinking water. Although Walters is a small community, our proportionate share of the stored water should provide enough water for our population to triple. The extended severe drought that we have experienced over the past five years has demonstrated that no surface water impoundment is sufficient under long term drought conditions and the maximum storage capacity is absolutely needed. The Walters City Council has approved our ownership share of debt repayment in financing the dredging/pipeline project over the next twenty years. The District provides us with the least cost alternative for our municipal water supply and causes the least environmental impact of the other alternatives that we studied. Walters has been committed to this project for more than 40 years and will remain so in the future.

Walters, as a founding member of the District, is fully committed to the long term viability of the Waurika Lake Master Conservancy District. We have approved long term debt repayments and we support any, and all, Grant applications made by the District.

Sincerely,

A handwritten signature in black ink that reads "John Sheppard". The signature is written in a cursive style.

John Sheppard
City Manager

FAST TRACK TO SUCCESS!

June 22, 2015

Mr. Dave Taylor, Executive Director
Waurika Lake Master Conservancy District
5404 East 1890 Road
Waurika, Oklahoma 73573

Dear Mr. Taylor:

The Duncan Area Economic Development Foundation (DAEDF) supports your attempt to secure a Bureau of Reclamation WaterSmart grant to help share the cost of the Drought Resiliency for Waurika Lake Conservancy District. This project will help Duncan improve upon an already effective means of drought monitoring mitigation actions, response actions and administrative/ operational framework by evaluating and updating all aspects of its plan.

Our region of the United States has recurring droughts that have required our constant attention. In the most recent drought, our main lake supplying the community's water needs reach record low levels of 27 percent. There are five other communities impacted by the drought conditions when these situations arise.

The Waurika Lake Master Conservancy District is a crucial part of the City of Duncan supplies water with over 23,000 persons in Duncan and a service area of 30,000 individuals. Duncan is 33 percent of the district. Waurika Lake Master Conservancy District provides water for up to 250,000 people, including the cities of Comanche, Duncan, Lawton-Ft. Sill, Temple, Walters and Waurika. Since access to water is so important, the Duncan City Council voted to support their portion of a \$10 Million loan to clean-out silt in a channel to the pump station.

Without a Drought Contingency Plan, Industrial development and growth are hampered by the lack of adequate water to take care of basic needs. As an end result, the economic impact is a decrease in community sale tax dollars to maintain city infrastructure. We wholeheartedly endorse the Waurika Lake Master Conservancy District's efforts in attempting to assure the community of Duncan survives and thrives.

If DAEDF can be of further help, please let us know. Our goal is to always be a community advocate to grow that community in a responsible way!

Sincerely,



Lyle Roggow
DAEDF President





City of Duncan, Oklahoma

BOX 969

73534

Director
US Bureau of Reclamation
Drought Resiliency Project Grant

June 22, 2015

To whom it may Concern:

The intent of this letter is to express the City of Duncan's support to the Waurika Lake Master Conservancy District in its application for the U.S. Bureau of Reclamation Drought Resiliency project grant.

The Waurika Lake Master Conservancy District plays a crucial part in the City of Duncan's long-term water supply planning. Duncan has a 33% interest in the District. The City Council of the City of Duncan has voted unanimously to support the project and to pay Duncan's portion of the \$10 million dollar loan. This project assures that Waurika Lake is able to supply water through all phases of the drought cycle. The project will allow continuous access to all lake levels by installing a pipeline from the pump house to the deepest part of Waurika Lake.

The City of Duncan supports the Waurika Lake Master Conservancy District's efforts to secure grants for the project.

Best Regards,

James Frieda
City Manager
City of Duncan



**STATE OF OKLAHOMA
WATER RESOURCES BOARD**

www.owrb.ok.gov

June 23, 2015

Mr. David L. Taylor, Executive Director
Waurika Lake Master Conservancy District
5404 E 1890 Rd
Waurika, OK 73573

Dear Mr. Taylor:

The Oklahoma Water Resources Board (OWRB) would like to extend its support of the Waurika Lake Master Conservancy District's (District) application to secure a U.S. Bureau of Reclamation WaterSmart grant to share the cost of the drought relief project for Waurika Lake.

Recognizing persistent drought conditions in Southwest Oklahoma highlights the urgent need for this project. While recent rains have provided some relief, history proves that drought conditions will occur again. The District is a crucial part of Southwest Oklahoma's long-term water supply planning, and proactive drought response now is essential to preparedness for future events.

As we understand, the \$12 million drought relief project will remove silt allowing access to over 25,000 acre-feet of additional water, improve the pumphouse inlet gates allowing the District to recover approximately 35% of water volume and extending the lake's life. A critical benefit of the project includes installation of a pipeline so that 25,000 acre-feet of water is continuously available when future drought conditions exist. The project assures Waurika Lake is able to supply water through all phases of the drought cycle with continuous access to all lake levels by installing a pipeline from the pump house to the deepest parts of Waurika Lake.

Completion of this project is crucial as the District provides water for up to 250,000 people, including the cities of Comanche, Duncan, Lawton, Temple, Walters and Waurika, as well as Ft. Sill. Each city voted unanimously to support the project, and recently the OWRB unanimously approved \$10 million in Financial Assistance Loan Program funds for the project.

The OWRB and Bureau of Reclamation, along with many other state and federal agencies, have partnered to assist utilities and cities prepare for drought conditions as experienced by the District. The District is to be commended in its proactive response to assure Southwest Oklahoma survives and thrives through extended drought conditions. Please do not hesitate to call upon the OWRB if we can be of any further assistance with this important project.

Sincerely,

J.D. Strong
Executive Director



3800 N. CLASSEN BOULEVARD • OKLAHOMA CITY, OKLAHOMA 73118
TELEPHONE (405) 530-8800 • FAX (405) 530-8900

Rudy Herrmann, Chairman • Linda P. Lambert, Vice Chairman • Tom Buchanan, Secretary
Bob Drake • F. Ford Drummond • Marilyn Feaver • Ed File • Jason W. Hitch • Richard C. Sevenoaks





"A COMMUNITY WORKING TOGETHER"

June 19, 2015

Mr. Dave Taylor, District Manager
Waurika Lake Master Conservancy District
5404 E. 1890 Rd
Waurika, Oklahoma 73573

Dear Mr. Taylor:

The Duncan Chamber of Commerce supports your attempt to secure grants to help share the costs of the sedimentation project at Waurika Lake near Waurika, Oklahoma. The project will create a deeper conservation pool at the north end of the lake, replace the intake gates on the main side of the pump station, and build an intake structure further out into the lake thereby insure the integrity of Waurika Lake for years to come. This will result in increasing the efficiency of the lake by 40% and improve your total water resource management system.

Southwest Oklahoma experienced a prolonged drought from late 2010 through early 2015. During this drought, Waurika Lake levels were the lowest ever recorded. The Waurika lake Master Conservancy District is a crucial part of the City of Duncan's long-term water supply planning. The City of Duncan has relied on Waurika Lake for over 95% of our water supply for two decades. The Duncan City Council has voted unanimously to support the project and pay Duncan's portion of the \$10 Million loan. This project assures Waurika Lake is able to supply water through all phases of the drought cycle. The project will allow continuous access to all lake levels by installing a pipeline from the pump house to the deepest parts of Waurika Lake.

The City of Duncan supplies water directly to over 23,000 persons in Duncan. Duncan is a member of the Waurika Lake Master Conservancy District, which provides water for up to 250,000 people, including the cities of Comanche, Duncan, Lawton-Ft. Sill, Temple, Walters and Waurika. The average usage by the cities was reduced over 50% through the drought.

We wholeheartedly endorse the Waurika Lake Master Conservancy District's efforts to secure grants for the project that will assure that the community of Duncan, and our region, is prepared to survive and thrive.

If the Duncan Chamber of Commerce can be of further assistance, please let us know.

Best Regards,

A handwritten signature in cursive script that reads "Chris Deal".

Chris Deal, President & CEO
Duncan Chamber of Commerce

911 Walnut • P.O. Box 699 • Duncan, OK 73534-0699 • 580-255-3644 • Fax: 580-255-6482

Web site: www.duncanchamber.com



City of Lawton

Public Works Department

Administration Office
Office: (580) 581-3410
Fax: (580) 581-3421

Mailing Address - 103 Southwest 4th Street
Shipping Address - 2202 Southwest 3rd St
Lawton, Oklahoma 73501

June 22, 2015

Jack Jackson, President
Waurika Lake Master Conservancy District
5404 E 1890 Road
Waurika, OK 73573

Re: Waurika Lake Intake Channel Project

Dear Mr. Jackson:

Pursuant to the drought of 2011 that engulfed southwest Oklahoma and lasted through May of 2015, the City of Lawton modified its Water Conservation Policy to include provisions for drought resisting its water supply. The measures that were included in the new policy include investigation for groundwater, expanding its water reuse program, and repair and maintenance of the existing infrastructure that the City depends on for water supply and distribution. The Waurika Lake encompasses a large portion of the City of Lawton's water supply. Since 2012, The City of Lawton has depended on transferring water from the Lake Waurika to the Lake Ellsworth.

During 2012, the City of Lawton was notified that should the drought continue, the ability of the Lake Waurika to provide water to Lawton would diminish due to siltation of the intake Structure and the associated gates. Pursuant to that notification, Lawton joined the Waurika Water Conservancy's effort to provide funding for implementation of the project.

The city of Lawton Water Authority plan to approve a resolution to fund the City of Lawton's portion of the Waurika Lake Intake Channel Maintenance Project, once the cost of the project is determined. Should you have any questions, please call me at (580) 581-3410

Sincerely,

Afsaneh Jabbar, P.E., Assistant Director W/WW

City of Lawton

MISSION STATEMENT

To provide efficient, effective and responsive customer oriented service delivery.
To promote a quality of life based on harmony and cooperation.
To provide leadership and opportunity for Southwest Oklahoma

RESOLUTION

AUTHORIZING APPLICATION FOR A WATER FOR WaterSMART GRANT FROM THE BUREAU OF RECLAMATION

WHEREAS, a drought exists by reason of the entire region of the Waurika Lake Master Conservancy District being in Extreme to Exceptional Drought per the US Drought Monitor for a minimum of two years, and includes the counties of Comanche, Cotton, Jefferson and Stephens; and,

WHEREAS, Waurika Lake Master Conservancy District is financially incapable of remedying the situation which threatens the public health and welfare of the people of its member cities, namely Lawton, Duncan, Waurika, Temple, Comanche, Waurika and Walters; and,

WHEREAS, it is in the best interest of the citizens of the Waurika Lake Master Conservancy District and its member cities to expedite the preparation and submission of an application for financial assistance from the Bureau of Reclamation in the form of a WaterSMART GRANT which will allow for conservation and provide an efficient use of the remaining lake water, assuring the water is sustainable for future generations.

NOW THEREFORE, BE IT RESOLVED that a drought situation is hereby recognized and declared to exist in the Waurika Lake Master Conservancy District, and by reason thereof, Jack Jackson, President, is hereby authorized and directed to sign an application and related documents necessary to file and process an application and commit Waurika Lake Master Conservancy District to the financial and legal obligations associated with the receipt of the WaterSMART Grant financial assistance with the Bureau of Reclamation.

NOW THEREFORE, BE IT FURTHER RESOLVED that Dave Taylor, the District Manager of the Waurika Lake Master Conservancy District has reviewed and supports the application submitted to the Bureau of Reclamation and that the Waurika Lake Master Conservancy District has the capability to provide the amount of funding and/or in-kind contributions specified in the funding

plan.

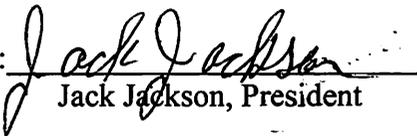
NOW THEREFORE, BE IT FURTHER RESOLVED that the Waurika Lake Master Conservancy District will work with the Bureau of Reclamation to meet the established deadlines for entering into a cooperative agreement.

PASSED AND APPROVED by the Waurika Lake Master Conservancy District's Board this

5 day of May, 2014
5

WAURIKA LAKE MASTER
CONSERVANCY DISTRICT

Attest: 

By: 
Jack Jackson, President

Seal:



**STATE OF OKLAHOMA
WATER RESOURCES BOARD**
www.owrb.ok.gov

May 20, 2015

Mr. Jack Jackson, President
Waurika Lake Master Conservancy District
5404 E. 1890 Rd.
Waurika, Oklahoma 73573

Dear Mr. Jackson:

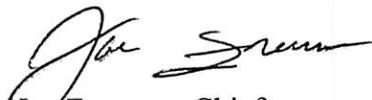
Re: OWRB Loan Number FAP-10-0003-L; Waurika Lake Master Conservancy District,
Jefferson County

We have received a written request from the Waurika Lake Master Conservancy District dated May 14, 2015 requesting the use of the remaining funds from loan FAP-10-0003-L to be used for the new project associated with your recent application for funding.

Our engineer has reviewed and approved this request to transfer funds to the project involving the dredging of the intake channel, the replacement of the existing lower gates, the installation of a floating intake pumping structure, and the extension of the existing pipeline 4,000 feet to the original Beaver Creek – underwater channel confluence. You are authorized to use the remaining balance in the Authority's project fund from loan FAP-10-0003-L for this project. Please use the existing payment requisitions starting with number 8.

If you have any additional questions, please contact Matthew Sellers or me at (405) 530-8800.

Sincerely,



Joe Freeman, Chief

Financial Assistance Division

cc: Jackie Gates, BancFirst
Charlotte Knutson, Office Manager
David Taylor, District Manager



3800 N. CLASSEN BOULEVARD • OKLAHOMA CITY, OKLAHOMA 73118
TELEPHONE (405) 530-8800 • FAX (405) 530-8900

Rudy Herrmann, Chairman • Linda P. Lambert, Vice Chairman • Tom Buchanan, Secretary
Bob Drake • F. Ford Drummmond • Marilyn Feaver • Ed Fite • Jason W. Hitch • Richard C. Sevenoaks



From: Sellers, Matthew <Matthew.Sellers@owrb.ok.gov>
To: 'taylorenv@aol.com' <taylorenv@aol.com>
Cc: Sudhakaran, Byju <Byju.Sudhakaran@owrb.ok.gov>
Subject: Balance of Project Account - FAP-10-0003-L
Date: Tue, Jun 23, 2015 11:00 am

David,

I contacted Jackie Gates at BancFirst. The balance in the project account for loan FAP-10-0003-L is \$1,259,816.45. One million of this is in a CD with Liberty National Bank that does not mature until 9/16/15. Please let me know if you need anything else. Best of luck this afternoon!

Matthew Sellers
Financial Loan Analyst
Oklahoma Water Resources Board
Financial Assistance Division
3800 N. Classen Boulevard
Oklahoma City, OK 73118
Phone: (405) 530-8800
Fax: (405) 530-8898
matthew.sellers@owrb.ok.gov



**STATE OF OKLAHOMA
WATER RESOURCES BOARD**

www.owrb.ok.gov

LETTER OF BINDING COMMITMENT

June 19, 2015

Mr. Jack Jackson, President
Waurika Lake Master Conservancy District
5404 E 1890 RD
Waurika, Oklahoma 73573

Dear Mr. Jackson:

Re: Notice of Approval and Commitment of Funds - FAP-16-0002-L; Waurika Lake Master Conservancy District, Jefferson County

We are pleased to formally notify you that on June 16, 2015 the Oklahoma Water Resources Board (OWRB) approved Waurika Lake Master Conservancy District's (the "District") request for a loan. With this approval, and upon the District's written acceptance of this "Letter of Binding Commitment," limitations, requirements, and points of understanding set out below, the Board has committed funds to be made available to the District for purposes detailed on the enclosed Board Order.

The terms and conditions set forth in the Promissory Note, Loan Agreement, and other loan documents shall be mutually agreed to and approved by the District and OWRB or their authorized agents as appropriate before said documents are executed and binding upon respective parties. The Promissory Note, Series 2015, in conjunction with local funds of \$800,000.00 and proceeds from loan FAP-10-0003-L in the amount of \$1,260,000.00, shall be sufficient to provide funds of \$626,940.00 estimated reserve, \$266,064.40 estimated fees, and \$12,000,000.00 estimated project cost. The Promissory Note, Series 2015, shall not exceed the aggregate principal amount of \$10,000,000.00.

In acceptance of this "Letter of Binding Commitment," the District acknowledges that it must agree to the following terms before the loan funds will be advanced:

1. A copy of the project's construction plans and specifications needs to be provided for our review and comments.
2. A copy of the construction permit, when issued by the Department of Environmental Quality, should be furnished.



3800 N. CLASSEN BOULEVARD • OKLAHOMA CITY, OKLAHOMA 73118
TELEPHONE (405) 530-8800 • FAX (405) 530-8900

Rudy Herrmann, Chairman • Linda P. Lambert, Vice Chairman • Tom Buchanan, Secretary
Bob Drake • F. Ford Drummond • Marilyn Feaver • Ed Fite • Jason W. Hitch • Richard C. Sevenoaks



Waurika Lake Master Conservancy District

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3. After project bid opening, the engineer should submit a complete tabulation of all bids with a revised project budget to the District. The District should then submit copies of the bid tabulation, project budget, engineer's recommendation and the District's recommendation to the OWRB. After the contracts are awarded, the District must provide one set of signed contract documents with the required insurance and bonds to the OWRB for approval.
4.
 - a. The District's bond counsel, Mr. Allan Brooks, will need to prepare drafts of the necessary loan documents, including the Loan Agreement, Promissory Note, Trust Agreement, Mortgage, Financing Statements, Arbitrage and Use of Proceeds Certificate, Applicant Questionnaire, and Opinion of Bond Counsel. Mr. Brooks will seek the assistance of the District's local counsel in furnishing easement descriptions, if applicable, property title opinion, and the local counsel's legal opinion concerning this loan. These must be submitted for our staff's review and approval before we will order the money to close the loan.
 - b. The OWRB must receive, within 15 days after closing, file-stamped copies of each Financing Statement (separate and apart from the copies that will be bound in the transcript we will receive later).
5. A local trustee bank shall be selected by the borrower and approved by the OWRB. For a bank to qualify to serve as a local trustee, it must: (a) have a trust department; (b) have at least \$100,000,000.00 in assets; (c) have capital, surplus and undivided profits of at least \$10,000,000.00; and (d) have previously acted or currently be acting as trustee on similar municipal bond issues. The role of the trustee includes but is not limited to, disbursing loan funds upon requisitions by the borrower, collecting monthly payments from the borrower and making semi-annual loan payments to the OWRB's trustee bank.
6. The District is required to obtain and furnish proof of the following insurance and bonds prior to loan closing and throughout the term of the loan upon policy expiration dates:
 - a. The treasurer or other official entrusted with handling the funds for the District will be covered by a Position Fidelity bond. The amount of the bond must be at least equal to the maximum amount of money that the District may have on hand at any one time. The bond shall also have a power-of-attorney attached.
 - b. The District must carry extended insurance coverage on the utility system sufficient to cover all mortgage indebtedness with standard mortgage clause in favor of the mortgagee or mortgagees as their interests may appear.
 - c. The District must carry liability insurance.
 - d. Worker's compensation insurance must be carried on the person or persons operating the utility system. The policy must be in effect at loan closing or start of construction, whichever occurs first.

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7. The District shall employ a licensed operator to operate the utility system as required by the Department of Environmental Quality. A copy of the operator's license(s) should be submitted.
8. The District shall see that the enclosed "Applicant Questionnaire" is promptly completed and returned to the OWRB. An OWRB loan cannot be funded without the Questionnaire being fully completed and returned to the OWRB.
9. The District must complete and submit to OWRB the "Insurance Certification" form to verify that sufficient insurance coverage is carried on the District's system and personnel. This form will be sent to the District upon project completion and must be returned to OWRB within 30 days of receipt.

As stated in the attached OWRB Order, upon applicant's acceptance of this "Letter of Binding Commitment," the funds will be reserved for the District for one year, until June 16, 2016. Accordingly, the District must accept this letter of commitment as soon as possible in order to proceed in a timely fashion with loan closing. Please return one original executed copy of the acceptance, page 4. Should you have any questions regarding this notification and letter of commitment, please feel free to contact Joe Freeman at (405) 530-8800.

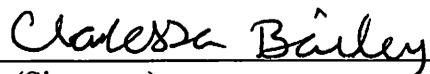
OKLAHOMA WATER RESOURCES BOARD



Joe Freeman, Chief
Financial Assistance Division

6/17/15
Date

ATTEST:



(Signature)

6-17-15
Date

(SEAL)

Enclosures OWRB Board Order
Applicant Questionnaire



Waurika Lake Master Conservancy District

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ACCEPTANCE:

On behalf of the Waurika Lake Master Conservancy District, I, the undersigned, being duly authorized to take such action, do hereby accept and agree to the terms and conditions of this "Letter of Binding Commitment." The applicant understands that the State's purpose for this "Letter of Binding Commitment" is to inform the applicant that the loan has been approved and that the funds for the loan will be reserved for a limited time upon applicant's acceptance of the terms of the "Letter of Binding Commitment." This "Letter of Binding Commitment" also acts as the written loan commitment from the borrower that is required under the Internal Revenue Code section 149(f)(4). Following applicant's acceptance of the "Letter of Binding Commitment," the parties will proceed to close the loan in a timely manner consistent with the proposed bond closing date.

Waurika Lake Master Conservancy District



(Signature)
Jack Jackson, President

Date

(Signature)
Secretary/Treasurer

Date

ATTEST:

(Signature)

Date

(SEAL)