



# Application

## Abridged

5:00pm

Due February 3, 2017 by

SWIFT@twdb.texas.gov

By submitting this abridged application, you understand and confirm that the information provided is true and correct to the best of your knowledge and further understand that the failure to submit a complete abridged application by the stated deadlines, or to respond in a timely manner to additional requests for information, may result in the withdrawal of the abridged application without review.

### GENERAL INFORMATION

Name of Entity	County	Regional Water Planning Area
North Texas Municipal Water District	Collin (Primary)	C – Region C

### Entity Contact Information

Contact Person	Name	Erik Felthous		
	Title	Finance Manager		
Mailing Address	501 E. Brown St.			
	Wylie, TX 75098			
Phone Number	469-626-4354	Fax Number	972-442-5400	
Email Address	<a href="mailto:efelthous@ntmwd.com">efelthous@ntmwd.com</a>			

### PROJECT DESCRIPTION

Name of Project <i>(As it appears in the 2017 State Water Plan)</i>	Treatment and Treated Water Distribution Improvements			
Where can the project be found in the most recent Regional Water Plan?	Project described on page:	5C.26	Capital costs listed on page:	5C.31 Q.56
Phase(s) Applied For	<input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Acquisition <input checked="" type="checkbox"/> Design <input checked="" type="checkbox"/> Construction			
Population Served When Fully Operational	1,900,000 in 2022			



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Description of Proposed Project
<p>Construction Costs (Including Engineering and Contingences)</p> <ul style="list-style-type: none"> <li>• Water Distribution System Improvements - Pipelines</li> <li>• Water Distribution System Improvements – Pump Stations</li> <li>• WTP Construction</li> </ul> <p>NTMWD is requesting financial assistance with the following Treatment &amp; Treated Water Distribution Improvements associated with the Lower Bois d’Arc Creek Reservoir, LBCR:</p> <ul style="list-style-type: none"> <li>• 70 MGD Leonard Water Treatment Plant</li> <li>• 90 MGD Leonard Water Treatment Plant High Service Pump Station</li> <li>• 84-inch Treated Water Pipeline from Leonard Water Treatment Plant to Highway 5 Pump Station</li> <li>• Leonard Water Treatment Plant Power Substation/Transmission Line</li> </ul> <p>Note: - Also Serves counties: Dallas, Denton, Ellis, Fannin, Hunt, Kaufman, Rains, and Rockwall.            - NTMWD is a Regional Wholesale provider of Potable Water. The residential water bill and household income have been estimated for the City of Plano, NTMWD’s largest wholesale customer, based on information from the City of Plano’s website, Texas Municipal League and the U.S. Census Bureau.            - Public Water System ID numbers: Wylie PWS - # 0430044, Tawakoni PWS - # 1290052, Bonham PWS - # 0740051, Future Leonard/ North WTP - #NA.</p> <p>- <b>NTMWD plans to receive the USACE Clean Water Act Section 404 Permit in January 2018.</b> In June 2015, NTMWD received the TCEQ Water Rights Permit for the Lower Bois d’Arc Creek Reservoir.</p>

<b>Emergency</b> <i>(select all that apply)</i>	<input type="checkbox"/> Applicant/entity’s water supply will last less than 180 days. <input type="checkbox"/> Water supply need occurs earlier than anticipated in the State Water Plan. <input type="checkbox"/> Applicant has received or applied for Federal emergency funding. <input checked="" type="checkbox"/> None of the above.
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<b>Agricultural Efficiency Project?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Efficiency improvement achieved by implementing the project</b> <i>(Please provide an attachment showing the basis for your calculation.)</i> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> &lt;1%</td> <td><input type="checkbox"/> 10%-13.9%</td> </tr> <tr> <td><input type="checkbox"/> 1%-1.9%</td> <td><input type="checkbox"/> 14%-17.9%</td> </tr> <tr> <td><input type="checkbox"/> 2%-5.9%</td> <td><input type="checkbox"/> ≥18%</td> </tr> <tr> <td><input type="checkbox"/> 6%-9.9%</td> <td></td> </tr> </table>	<input type="checkbox"/> <1%	<input type="checkbox"/> 10%-13.9%	<input type="checkbox"/> 1%-1.9%	<input type="checkbox"/> 14%-17.9%	<input type="checkbox"/> 2%-5.9%	<input type="checkbox"/> ≥18%	<input type="checkbox"/> 6%-9.9%	
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<input type="checkbox"/> 6%-9.9%										

Household Cost Factor			
<i>(Household Cost Factor for SWIFT prioritization is calculated by dividing the service area’s average residential water bill by its annual median household income. For regional projects, these should represent the combined service areas of all participating entities.)</i>			
<b>Estimated average annual residential water bill:</b>	\$251.02	<b>Annual Median Household Income:</b>	\$83,793

<b>The proposed project addresses:</b>	<input type="checkbox"/> Conservation <input type="checkbox"/> Water Loss <input checked="" type="checkbox"/> N/A
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Volume of Water Produced/Conserved (in Acre/Feet per Year)					
2020	2030	2040	2050	2060	2070
0	120,200	120,200	118,000	115,800	113,600



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<b>Readiness to Proceed</b> <i>(select all that apply)</i>	<input checked="" type="checkbox"/> Preliminary planning or design work (30% of total project) has been completed or is not required. <input checked="" type="checkbox"/> Applicant is prepared to begin implementation or construction within 18 months of application deadline. <input checked="" type="checkbox"/> Applicant has acquired all water rights associated with the proposed project, or none will be required.
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ESTIMATED COSTS		
<b>Estimated Project Costs</b>	Low-interest Loan	\$ 483,751,600
	Deferred Loan	\$
	Board Participation	\$
	Local Contribution	\$
	Other:	\$
	<b>Total Estimated Project Costs</b>	<b>\$ 483,751,600</b>

<b>Anticipated Commitments</b> <i>Attach proposed schedule for multi-year commitments</i>	<input type="checkbox"/> One-Time Commitment	<input checked="" type="checkbox"/> Multi-Year Commitments
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**Please attach a list of all water systems served by the proposed project.**

**See Attached Schedule**

# **Beneficiaries of Lower Bois d'Arc Creek Reservoir and Leonard WTP, HS Pump Station, and Transmission lines**

From Appendix H, Table H.23\*, *2016 Region C Water Plan*

\* Removed any NTWMD customers that were not allocated supply from Lower Bois d'Arc Creek Reservoir in DB17

## **Current Customers**

Ables Springs WSC  
Allen  
Anna  
Blackland WSC  
Bonham  
BHP WSC (Hunt Co portion)  
Caddo Basin SUD  
Cash SUD  
College Mound WSC  
Collin Co. Other  
Copeville SUD  
Crandall  
Culleoka WSC  
Denton County Other  
East Fork SUD  
Fairview  
Farmersville  
Fate  
Forney  
Forney Lake WSC  
Frisco  
Garland  
Gastonia-Scurry SUD  
Hackberry  
Heath  
High Point WSC  
Howe  
Hunt County Other  
Josephine  
Kaufman  
Kaufman County Other  
Lavon  
Lavon WSC  
Little Elm  
Lowry Crossing  
Lucas  
McKinney  
McLendon-Chisolm  
Melissa  
Mesquite

## **Potential Future Customers**

Blue Ridge  
Celina  
Ector  
Fannin County Other  
Honey Grove  
Leonard  
Savoy  
Southwest Fannin Co SUD  
Trenton  
Weston  
Kaufman County Mining  
Fannin County Mining

**Beneficiaries of Lower Bois d'Arc Creek Reservoir and Leonard WTP, HS  
Pump Station, and Transmission lines**

From Appendix H, Table H.23\*, *2016 Region C Water Plan*

\* Removed any NTWMD customers that were not allocated supply from Lower Bois d'Arc Creek Reservoir in DB17

**Current Customers**

Milligan WSC  
Mt. Zion WSC  
Murphy  
Nevada  
North Collin WSC  
New Hope  
Oak Grove  
Parker  
Plano  
Post Oak Bend City  
Princeton  
Prosper  
RCH WSC  
Richardson  
Rockwall  
Rockwall Co. Other  
Rose Hill SUD  
Rowlett  
Royse City  
Sachse  
Saint Paul  
Scurry  
Seis Lagos UD  
Sunnyvale  
Talty  
Talty WSC  
Terrell  
The Colony  
Van Alstyne  
Wylie

Wylie Northeast SUD

**Non-Municipal Customers**

Collin County Manufacturing  
Dallas County Manufacturing  
Denton County Manufacturing  
Fannin County Manufacturing  
Grayson County Manufacturing  
Kaufman County Manufacturing  
Kaufman County Steam Electric  
Rockwall County Manufacturing

**Potential Future Customers**

## SWIFT - Schedule for Multi-Year Commitments

	<u>Current Cost</u>	<u>Escalation</u>	<u>Total Cost</u>
<b><u>Total by Project</u></b>			
<b>Lower Bois d'Arc Creek Reservoir - Q23</b>			
Reimbursements (Authorized and to be Authorized)	\$ 189,314,000	0%	\$ 189,314,000
FY18 (12/2017 - 11/2018)	\$ 449,243,000	3%	\$ 462,720,290
FY19 (12/2018 - 11/2019)	\$ 216,783,000	6%	\$ 229,789,980
FY20 (12/2019 - 11/2020)	\$ 1,349,000	9%	\$ 1,470,410
FY21 (12/2020 - 11/2021)	\$ 1,349,000	12%	\$ 1,510,880
FY22 (12/2021 - 11/2022)	\$ 109,000	15%	\$ 125,350
	<u>\$ 858,147,000</u>		<u>\$ 884,930,910</u>
<b>Treatment &amp; Treated Water Distribution - Q28</b>			
Reimbursements (Authorized and to be Authorized)	\$ 45,062,000	0%	\$ 45,062,000
FY18 (12/2017 - 11/2018)	\$ 32,962,000	3%	\$ 33,950,860
FY19 (12/2018 - 11/2019)	\$ 381,829,000	6%	\$ 404,738,740
FY20 (12/2019 - 11/2020)	\$ -	9%	\$ -
FY21 (12/2020 - 11/2021)	\$ -	12%	\$ -
FY22 (12/2021 - 11/2022)	\$ -	15%	\$ -
	<u>\$ 459,853,000</u>		<u>\$ 483,751,600</u>
<b><u>Total by Project</u></b>	<b><u>\$ 1,318,000,000</u></b>		<b><u>\$ 1,368,682,510</u></b>
<b><u>Total by SWIFT Bond Year</u></b>			
<b>Lower Bois d'Arc Creek Reservoir - Q23</b>			
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