FUNDING STORMWATER PROJECTS
FRIDAY 9:00 AM TO 9:30 AM
PRESENTED BY: MARK EVANS, TEXAS WATER DEVELOPMENT BOARD
LAURA CASSIDY, PE, CFM, CPESC, Lockwood, Andrews, and Newnam, Inc.

OVERVIEW

- COMMON ROUTES TO PROJECT FUNDING
- GRANT FUNDING
- BOND FUNDING
- CLEAN WATER STATE REVOLVING FUND
  - ELIGIBLE PROJECT TYPES
  - APPLICATION PROCESS
  - LOAN FORGIVENESS

KNOWN PROBLEMS

PROJECT FUNDING

KNOWN SOLUTIONS

BRIDGE
COMMON ROUTES TO PROJECT FUNDING

- **BOND**
- **LOAN**
- **GRANT**
- **ANNUAL BUDGET**
- **STORMWATER UTILITY**

FEDERAL FUNDING PROGRAMS

- FEMA
- HUD
- USDA
- EPA
- TDEM
- FMA
- PDM
- HMGP

STATE FUNDING PROGRAMS

- TWDB
- TDOT
- TDOA
- FPG
- CWSRF
- GRANT
- LOAN

FEMA: Federal Emergency Management Association

FMA: Flood Mitigation Assistance

TDEM: Texas Division of Emergency Management

USACE: U.S. Army Corps of Engineers

USDA: U.S. Department of Agriculture

EPA: Environmental Protection Agency

HMGP: Hazard Mitigation Grant Program

PDM: Pre-Disaster Mitigation

FMA: Flood Mitigation Assistance

Housing and Urban Development

TWDB: Texas Water Development Board

CWSRF: Clean Water State Revolving Fund

TDOA: Texas Department of Agriculture

TDOT: Texas Department of Transportation

TWDB: Texas Water Development Board

FPG: Flood Protection Grant

CWSRF: Clean Water State Revolving Fund

TDOT: Texas Department of Transportation

TDOA: Texas Department of Agriculture
FLOOD PROTECTION GRANT
APPLICANT: CITY OF BEAUMONT

SUCCESSFUL APPLICATION
- EARLY COORDINATION WITH TWDB
- PROJECT SCOPE MEETS THE GOALS OF THE GRANTEE AND GRANTOR
- FUNDING AND NON-FUNDING PARTNERSHIPS
- SECURED $287,000 IN FPG FUNDS AND $75,000 FROM LOCAL PARTNERS

GRANT FUNDING CONSIDERATIONS

Strategy
- Contact the grant authority early
- Understand the goal of the grant
- Develop inclusive project scope
- Partner with other jurisdictions

Limitations
- Limited project types
- Competitive
- Limited funds
- Set application windows
- Matching dollars needed

TEXAS WATER DEVELOPMENT BOARD HISTORY
Rural Water Assistance Fund (RWAF)
Water Development Fund (DFund)
Economically Distressed Areas Program (EDAP)
Drinking Water State Revolving Fund (DWSRF)
Agricultural Water Conservation Grant & Loan Program
State Water Implementation Revenue Fund for Texas (SWIRFT)
Clean Water State Revolving Fund (CWSRF)

Texas Water Development Board Funding Tools

TWDB (as Borrower/Issuer) Sells Bonds in Open Market
Borrower Buys Bonds

Financial Assistance Programs
Borrower Repays Program
Appropriations, SWIFT

Sometimes repayments aren't enough & additional funds are necessary to support the TWDB Bonds

This is How It Works...

Clean Water State Revolving Fund (CWSRF)
Offers financing up to 155 basis points below the applicant's market interest rate
Repayment terms up to 30 years
Partial principal forgiveness available for Disadvantaged Communities and projects with Green components
CWSRF LENDING RATES

<table>
<thead>
<tr>
<th>Fund</th>
<th>Terms</th>
<th>Market Rate</th>
<th>TWDB Rate</th>
<th>Subsidy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Water SRF Non-Equivalency (AA)</td>
<td>20</td>
<td>2.81%</td>
<td>1.61%</td>
<td>1.20%</td>
</tr>
<tr>
<td>Clean Water SRF Non-Equivalency (BAA)</td>
<td>20</td>
<td>3.50%</td>
<td>2.30%</td>
<td>1.20%</td>
</tr>
<tr>
<td>Clean Water SRF Equivalency (AA)</td>
<td>20</td>
<td>2.81%</td>
<td>1.26%</td>
<td>1.55%</td>
</tr>
<tr>
<td>Clean Water SRF Equivalency (BAA)</td>
<td>20</td>
<td>3.50%</td>
<td>1.95%</td>
<td>1.55%</td>
</tr>
</tbody>
</table>

*Rates as of April 2017

CWSRF ELIGIBLE PROJECT TYPES

Levees/Dams
Erosion Control
Drainage Structures
Remote Sensing
Planning
Floodplain Land Acquisition

CWSRF ELIGIBLE PROJECT TYPES

**Stormwater Management Projects**

**Deliverables/Construction**

- Drainage impact study
- Engineering design
- Storm sewer, detention/retention ponds, channel improvements
- Flood control districts
- Cities
- MUDs and special districts
- H&H studies
- HEC-RAS/HMS models
- 2D modeling for floodplain, ponding and over/flow studies
- FEMA mapping
- 2D modeling for inundation, ponding and overflow studies
- FEMA mapping
- Flood control districts
- Counties
- Cities
- Transportation Departments
- Toll Road Authorities
- Counties
- Cities
- Levee Improvement Districts
- River Authorities, Counties, & other government entities

Applicants:
CWSRF: LOAN FORGIVENESS
DISADVANTAGED COMMUNITIES

**Qualification**
- 75% of states annual median income or less
- Higher Utility Rates

**Benefit**
- 30/50/70% Loan Forgiveness Possible off of Project Costs

CWSRF: LOAN FORGIVENESS
GREEN PROJECTS

**Requirements**
- Green initiatives are eligible for up to 15% loan forgiveness on green dollars
- Entire projects or discrete components

Eligible Projects
- Green Infrastructure
- Water Efficiency
- Environmentally Innovative
- Energy Efficiency

- Permeable pavement
- BioRetention
- Trees
- Green Roofs
- Constructed Wetlands
- Urban Forestry Programs
- Cisterns
- Stormwater Reuse piping

CWSRF: HOW TO APPLY
- Easy online process: HTTPS://OLA.TWDB.TEXAS.GOV
- Real-time updates to FY20
- Apply year-round
CWSRF APPLICATION PROCESS

- Project Information Form (PIF)
- Full Application
- Funding Commitment
- Closing

CWSRF ADMINISTRATION

- Financial: Paid on Invoice, Audits Required
- Status Updates: Milestone Driven, Environmental & Engineering
- Project Closeout: Inspection, Certificate of Acceptance

CWSRF FINANCING

- Benefits:
  - Streamlined Application Process
  - Less competitive than grant pursuits
  - Flexibility with project execution
  - Applies to a wide range of projects
  - Opportunity for loan forgiveness
  - Lowest Loan Funding Rates
THANK YOU

CONTACT INFORMATION

MARK EVANS
STATEWIDE OUTREACH COORDINATOR
TEXAS WATER DEVELOPMENT BOARD
(512) 463-8510
MARK.EVANS@TWDB.TEXAS.GOV

LAURA CASSET, PE, CFM, CPESC
FLOODPLAIN MANAGEMENT AND PROJECT PLANNING SPECIALIST
LOCKWOOD, ANDREWS & NEWNAM, INC.
(512) 633-7606
LMCASSET@LAN-INC.COM