



**NORTH  
TEXAS  
MUNICIPAL  
WATER  
DISTRICT**

**Regional Service Through Unity**  
Meeting our Region's Needs Today and Tomorrow

## **Future Capital Improvement Program and Potential CM Opportunities**

26 March 2024

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Assistant Deputy Engineering



# LEGACY OF SERVICE

*“We decided we were all in this together. We couldn’t do it separately.”*

*~ from Gift of Water, Legacy of Service: A History of North Texas Municipal Water District*

## 13 MEMBER CITIES

Allen | Farmersville | Forney | Frisco | Garland | McKinney | Mesquite  
Plano | Princeton | Richardson | Rockwall | Royse City | Wylie

**1951**

Created by Texas  
Legislature to  
Provide Water Service

**1956**

Began Providing Treated  
WATER to Member Cities

**1970s**

Expanded to  
WASTEWATER Services

**1980s**

Expanded to  
SOLID WASTE Service



# WHO WE ARE



## OUR VISION

Regional service through unity:  
meeting our region's needs  
today and tomorrow



## OUR MISSION

Provide high quality and dependable  
water, wastewater and solid waste  
services in a cost efficient manner

# STRATEGIC GOALS

GOAL  
01

## SERVICE

Provide superior water,  
wastewater and solid  
waste services today  
and tomorrow

GOAL  
02

## STEWARDSHIP

Responsibly manage  
public resources to  
ensure responsiveness,  
effectiveness and  
efficiency

GOAL  
03

## PARTNERSHIP

Actively collaborate with  
members, customers,  
partners, employees and  
stakeholders

GOAL  
04

## PEOPLE

Build a talented,  
competent and  
committed team

# CORE VALUES



INTEGRITY



TRUST



RESPECT



UNITY



SAFETY



TEAMWORK



# NTMWD – AT A GLANCE





## Topics to Cover

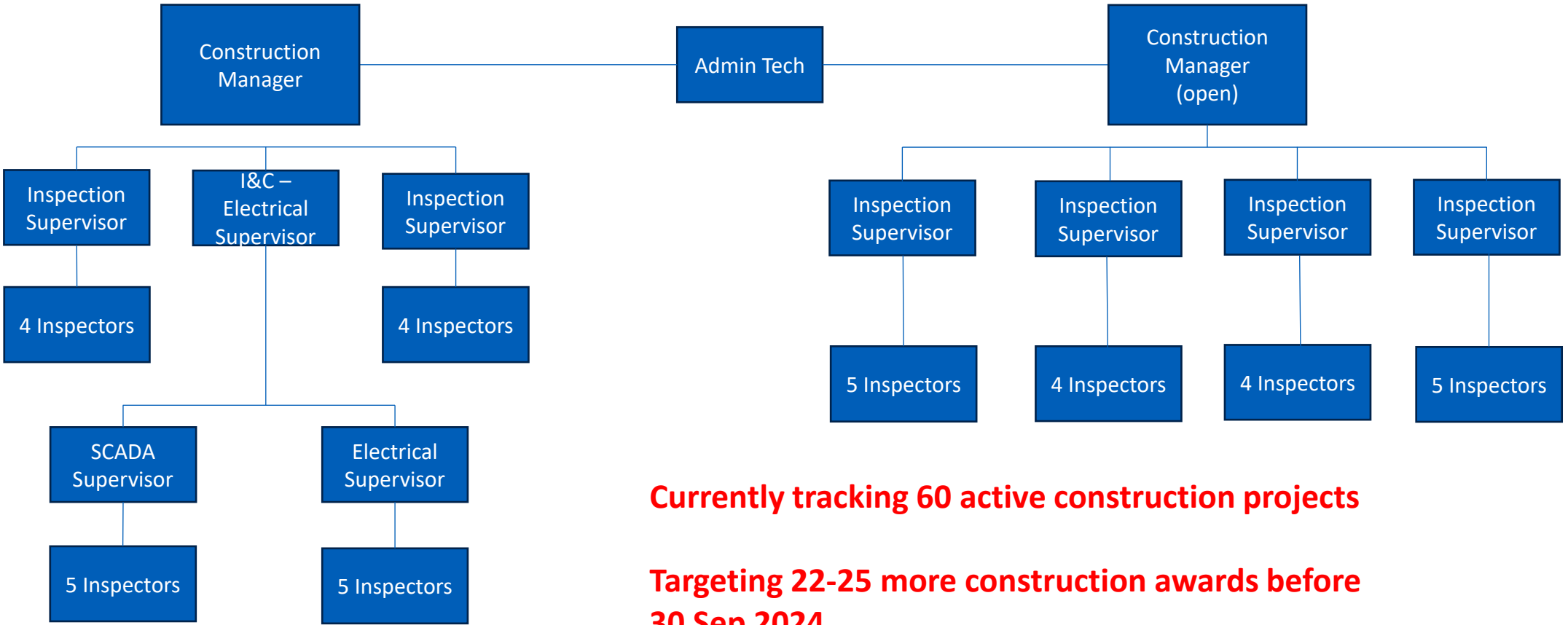
- Current CM Services at NTMWD
- NTMWD Inspection Model
- NTMWD CIP Program 5 and 10 Year
- Major Projects Next 5 Years
- SOQs and Selection Process
- Performance Evaluation
- Open Positions



*Regional. Reliable. Everyday.*



# NTMWD Inspection Resources



- 2 Construction Managers
- 1 Instrumentation and Electrical Supervisor
- 8 Inspection Supervisors
- 36 Inspectors

**Currently tracking 60 active construction projects**

**Targeting 22-25 more construction awards before 30 Sep 2024**



*Regional. Reliable. Everyday.*



## Purpose of Construction Management at NTMWD

- Reduce the dependence on outsourced Inspectors managed by District Inspection Supervisors

Role	June 2022 NT CMAA	April 2024 NT CMAA
Internal Inspectors	34	36
Outsourced Inspectors	30	12
Outsourced Assigned to CM	10	4

- Biggest challenge is supporting Electrical and SCADA Inspection
- Frees up our Inspection Supervisors to support projects in other ways
  - More plan review during design
  - Support for closeouts
  - Training
- Allows the District to manage size of internal staff if there is a reduction is size of CIP in future years



*Regional. Reliable. Everyday.*



## Program / Construction Management at NTMWD

- Sister Grove RWRRF
  - 16 MGD Greenfield WWTP
  - North McKinney Transfer LS
  - North McKinney Transfer FM
- Wylie WTP BAF Improvements
  - Project 517 Structural and Mechanical Improvements Plant 2
  - Project 496 – Conversion to LAS
  - Project 390 – Plants I, III, and IV BAF Conversion
- South Mesquite Creek RWWTP
  - South Mesquite Peak Flow Improvements
  - South Mesquite Plant Expansion from 33 MGD to 41 MGD AAD
- Sabine WWTP
  - Expansion from 3.5 MGD to 7 MGD Current CM Services at NTMWD
- Leonard WTP Phase 2
  - Leonard WTP Phase 2 – 70 MGD expansion of existing LWTP
  - BDL Raw Water PS Improvements
  - LWTP HSPS-N – Additional Pumping capacity improvements
  - Additional terminal storage reservoir
- Pipeline from McKinney Delivery Point No. 3 to McKinney Delivery Point No. 4
  - 8 miles x 72-inch pipeline across north side of McKinney
  - NE McKinney PS – 50 MGD transmission system pump station



*Regional. Reliable. Everyday.*





# What do we want to see from our Construction Managers

- Org Chart and Staffing Plan
  - Who's filling the key roles and how does their experience meet the project need
  - How are you mobilizing your resources?
  - Who's in the field every day? Will they work with the CM well?
  - You bringing your own inspectors? Outsourcing?
    - How do you integrate your team?
    - How do you integrate with the District Inspectors?
- Communications plan
  - Internal to the project
  - External if the project is outside the fence
  - Issue resolution
- How do you integrate with the existing team
  - District PM and Managers
  - Consultant
- Do you understand project challenges?
  - Do you have a plan for managing those challenges or you going to ask the District?
  - Is there a process?
- Innovation and Value
  - Need to identify and explain how CM services provide value to the Owner
  - Innovation – it's not all about technology



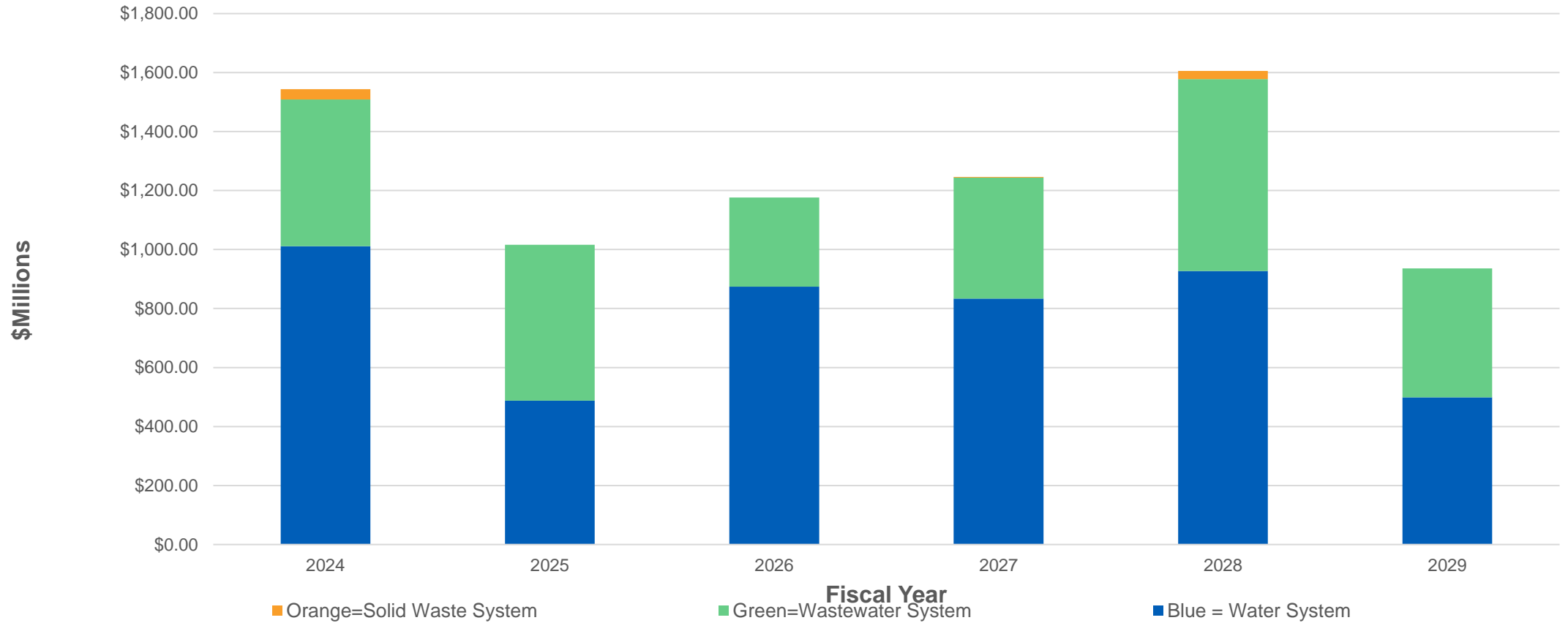
# **NTMWD 5 Year and 10 Year CIP**

Overall CIP by System



# Five-Year CIP Cost Summary

Fiscal Year 2024 - Fiscal Year 2029 All System CIP Projects

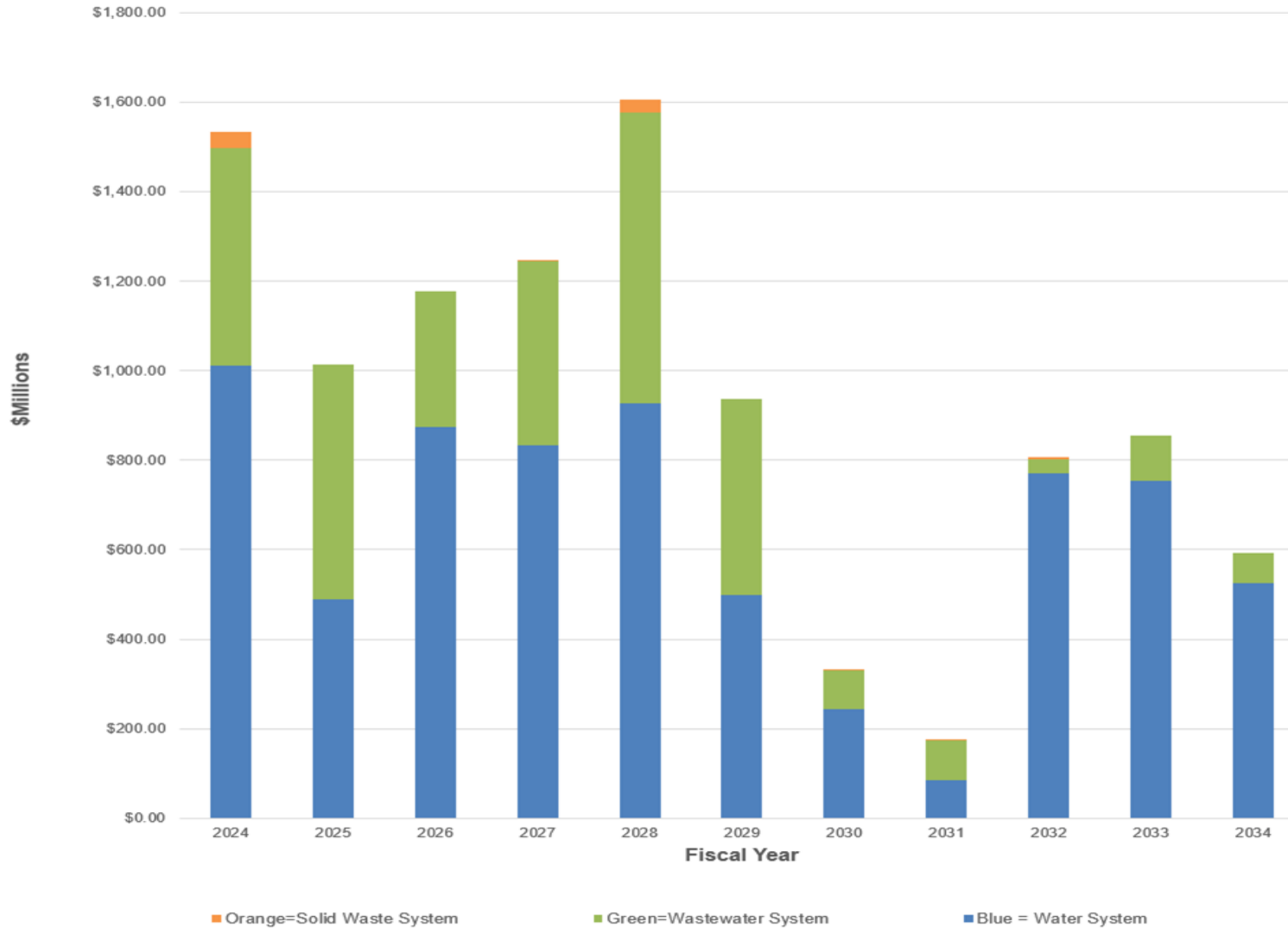




# 10 Year CIP Cost Summary

Fiscal Year 2024 - Fiscal Year 2034 All System CIP Projects

Data Compiled March 22, 2024





# **NTMWD 5 Year Major Projects**

Defined as Projects Estimated to > \$50M



# Major CIP Projects (>\$50M) for 2024

Name	Cost Range	Status	CM
Bois d'Arc Lake Raw Water Pump Station Phase II	\$50-100 M	Bid Opens 27 Mar 2024	X
Northeast McKinney Pump Station	\$50-100 M	Project Advertises 03 Apr 2024	X
South Mesquite RWWTP Peak Flow Management & Expansion (CMAR)	\$100-200 M	Targeting Award Summer 2024	X
Rowlett Creek Regional WWTP Peak Flow Management Phase II	\$100-200 M	Targeting Award Summer 2024	?
Panther Creek WWTP Expansion to 15 MGD	\$50-100 M	Targeting Oct 2024	



# Major CIP Projects for Next 5 Years

Name	Cost Range	Status	CM
Wylie WTP IV Expansion No. 2	\$100-200 M	Under Design	
Sister Grove Expansion to 32 MGD	\$100-200 M	Target Award Spring 2025	X
Bois D'Arc Lake Leonard WTP Expansion by 70 MGD to 210 MGD	\$400-500 M	Design Award Summer 2024	X
Leonard WTP High Service Pump Station-South	\$50-100 M	Under Design	X
Texoma Raw Water Pipeline No. 2	\$300-400 M	Under Design	X
Texoma Raw Water Pipeline to Leonard WTP Pipeline	\$50-100 M	Under Design	X
Wylie WTP II Hydraulic, Rapid Mix, and Flocculator Improvements	\$100-200 M		
Parallel Treated Water Pipeline from Leonard WTP to McKinney No. 4	\$100-200 M		X
Additional Wetland	\$300-400 M		
Wylie WTP Raw Water Pump Station No. 4	\$300-400 M	Study Phase	X



# Major CIP Projects for Next 5 Years

Name	Cost Range	CM
South Mesquite Regional WWTP Peak Flow Management and Expansion	\$50-100 M	X
Wilson Creek Regional WWTP Primary Clarifier, UV, and Centrifuge Improvements – Phase II	\$50-100 M	
Lower East Fork Regional Water Resource Recovery Facility	\$400-500 M	X
South Mesquite Regional WWTP Improvements	\$50-100 M	
Sister Grove RWRRF Expansion to 48 MGD	\$200-300 M	X
Wilson Creek RWWTP Administrative Building & Secondary Clarifier & Electrical Improvements	\$50-100 M	
Tickey Creek Lift Station	\$50-100 M	X
Tickey Creek Force Main	\$50-100 M	X
Stewart Creek West WWTP Expansion to 15 MGD and Plant 1 Rehabilitation	\$50-100 M	
Buffalo Creek Parallel Interceptor, Phase II	\$50-100 M	
Panther Creek WWTP Expansion to 20 MGD	\$50-100 M	





# Doing Business With NTMWD

Pro-Tip: Register on the Bonfire Portal



Regional Service Through Unity...Meeting our Region's Needs Today and Tomorrow

BOARD  
RESOURCES

MEMBER  
PORTAL

CAREERS

ABOUT US ▾

SERVICES ▾

ENVIRONMENT ▾

EDUCATION ▾

MEDIA ▾



## Business Opportunities

North Texas Municipal Water District (NTMWD) invites talented, experienced and ethical contractors, consultants and suppliers to bid on design and construction projects that align with their experience and expertise.

**PROCUREMENT DEPARTMENT**

### Related Links

- [NTMWD Online Bidding Portal](#)
- [Conflict of Interest Projects](#)
- [Projectmates Portal](#)



## Open Public Opportunities

## Past Public Opportunities

Status	Ref. #	Project	Close Date	Days Left	Action
OPEN	501-0439C-16	Beck Branch Parallel Interceptor Phase II & Plano Spring Creek Force Main Parallel	Mar 27th 2024, 2:00 PM CDT	6	<a href="#">View Opportunity</a>
OPEN	101-0602-21	Bois d'Arc Lake Raw Water Pump Station Phase II	Mar 27th 2024, 2:00 PM CDT	6	<a href="#">View Opportunity</a>
OPEN	24-061-C	Wilson Creek Regional Wastewater Treatment Plant Truck Washout	Mar 28th 2024, 10:00 AM CDT	7	<a href="#">View Opportunity</a>
OPEN	24-078-RE	Allen Surplus Land Sale	Mar 29th 2024, 2:00 PM CDT	8	<a href="#">View Opportunity</a>
OPEN	24-128-B	Overhead Door System Maintenance and Repair, Parts and Services	Apr 2nd 2024, 11:00 AM CDT	12	<a href="#">View Opportunity</a>
OPEN	401-0447-16	Parkway Transfer Station Conversion to Top Load	Apr 3rd 2024, 2:00 PM CDT	13	<a href="#">View Opportunity</a>
OPEN	24-142-B	Inline Grinders	Apr 10th 2024, 2:00 PM CDT	20	<a href="#">View Opportunity</a>
OPEN	24-150-B	Hydro Seeding Supply	Apr 11th 2024, 10:00 AM CDT	21	<a href="#">View Opportunity</a>
OPEN	101-338DB-13	Set Point Control Implementation Phase IV – Package B	Apr 11th 2024, 1:00 PM CDT	21	<a href="#">View Opportunity</a>
OPEN	101-0603-22	Leonard WTP High Service Pump Station - North	Apr 17th 2024, 2:00 PM CDT	27	<a href="#">View Opportunity</a>
OPEN	101-0607FHJ-23	Waterline Relocations for Along State Highways in Dallas, Rockwall, and Kaufman Counties	Apr 17th 2024, 2:00 PM CDT	27	<a href="#">View Opportunity</a>



# Contracting for Professional Services

NTMWD RFQ – SOQ process



# Consultant Selection Process - Summary

- District Posts an RFQ for Engineering Services
- Pre-response meeting where Planning and Engineering provide some details on the process
- Firms interested in performing services select categories and submit SOQ
- District assigns different staff for each category to review SOQs and contact references
- Pre-qualified List posted September prior to start FY25 (01 Oct 2024)

Category	Number of Projects
Water Treatment	5
Water Pipelines	7
Water Pump Stations	14
Planning and Modeling	4
Wastewater Treatment	3
Wastewater Pipelines	12
Wastewater Lift Stations	10
Wetland	1
Buildings	1
Solid Waste	1
SCADA	1



## Consultant Selection Process FY25-27 Timeline

- Request for Qualifications will be posted by May 31, 2024
- Pre-response meeting: June 21, 2024
- Deadline for questions: July 16, 2024
- Deadline for Statement of Qualifications: July 25, 2024
- Announcement of pre-qualified consultant list: September 27, 2024



# Comparison of Preselection Categories

## FY2022-2024 SOQ Categories

1. Water Treatment
2. Water Pump Stations
3. Water Pipelines
4. Wastewater Treatment
5. Wastewater Lift Stations
6. Wastewater Pipelines
7. Electrical
8. Instrumentation and Controls
9. General Civil and Survey
10. Solid Waste
11. Architecture
12. Construction Support
13. Master Planning and Modeling
14. Quality Assurance and Material Testing

## FY 2025-2027 SOQ Categories

(maybe)

1. Water Treatment
2. Water Pump Station
3. Wastewater Treatment
4. Wastewater Lift Stations
5. Water and Wastewater Pipelines
6. Construction Management and Inspection Support
7. Quality Assurance and Material Testing

Remember my Pro Tip: Register on the Bonfire Portal  
[North Texas Municipal Water District \(bonfirehub.com\)](https://bonfirehub.com)



# Are you the Most Highly Qualified ?

## For Most Projects the Process for Selection will look something like this:

1. Program Manager and PMs will typically identify 3 firms to interview for 1 project or we might invite as many as 6 firms to award multiple projects. Also, a list of potential candidates for Interview Panel.
  - AD Engineering and/or Deputy Director Engineering will concur or recommend alternatives to proposed list(s)
2. A NTMWD PM or PgM will send an informal email about 8 weeks before we plan to do interviews
3. About 6 weeks before interview you will get a formal Request for Interview and either be assigned a time or be given instructions on reserving an interview slot
4. Many projects will have a pre-interview information session
5. Interviews will typically be around 35-40 minutes of presentation and some Q&A
6. Interview Panel will discuss the criteria for selection and pick the Most Highly Qualified firm

For special projects or projects outside our typical SOQ categories we may issue a special RFQ and conduct a two-step process to award





# **You won a job – Wooahoo**

We're watching you



NORTH  
TEXAS  
MUNICIPAL  
WATER  
DISTRICT

### Consultant Performance Evaluation

Evaluation Date			
Project Number / Name			
Phase	Design [ ]	Construction [ ]	Other [ ]
Consultant			
Consultant PM			
Consultant Principal			
<b>District Project Manager</b>			

#### EVALUATION CRITERIA

Needs Improvement = Does not meet contractual, technical, or professional requirements  
 Successful Performance = Meets contractual requirements  
 Exceptional Performance = Exceeds contract requirements resulting in clear benefit to the Owner

More information on categories and scoring can be found on Performance Evaluation Guidelines

	Needs Improvements (1 Point)	Successful Performance (3 Points)	Exceptional Performance (5 Points)
1. Schedule			
2. Budget			
3. Regulatory Compliance/Agency Coordination			
4. Project Management			
5. Adequacy/Availability of Workforce			
6. Technical Competence/Innovation			
7. Change Management			
8. Communication			

Note: Due to Importance of Quality - the performance criteria will be weighed more heavily and will be scored at double the point values of the other criteria

	Needs Improvements (2 Point)	Successful Performance (6 Points)	Exceptional Performance (10 Points)
9. Quality			
<b>Total Score (50 points maximum)</b>			

Comments:

Concurrence with Evaluation	Signature / Date
<b>District Program Manager</b>	
<b>Engineering Manager</b>	

# Consultant Performance Evaluation

Needs Improvement	Successful Performance	Exceptional Performance
Performance Does not meet contract, technical, or professional requirements	Meets contractual requirements	Performance excess contract requirements resulting in measurable benefit the Owner
Serious issues with performance and ineffective corrective actions	Minor issues with performance but corrective actions taken and effective	Identified cost savings or innovations that added value to the project
Failed to meet milestones and managed scope and costs poorly	Provided acceptable solutions to changes or challenges but did not stand out in responsiveness or quality of recommendations to the owner	Consistently exceeded expectations, provided exceptional results in at least one area of schedule, cost, quality
Major errors, extensive minor errors, and/or recurring problems. Excessive quality issues or poor engineering principles applied	Minor errors with problems not repetitive	Managed challenges and changes quickly and effectively and provided exceptional guidance to the Owner
Required excessive engagement from District PM to meet contract requirements	Met general expectations of schedule and budget but provided no exceptional cost or schedule savings and quality was acceptable but not exceptional	
Required Program Manager or Engineering Manager to engage Consultant's project manager or Principal to meet minimum performance expectation		
Performance indicates little or no effort to satisfy contract requirements or standard of care less than industry standards		
Poor response to change or challenges and consistently look for guidance from owner for solutions		



# Tired of Billable Hours

We have openings



# We're Hiring

## **Construction Manager - Req #1014**

This position oversees a team of Construction Inspectors and the execution of construction projects. Ensures the use of effective and consistent procedures and methodologies for construction inspections. Assists project managers in review of change orders, requests for information, field changes, and pay requests. Develops and maintains construction management procedures.

## **Project Engineer (Water/Wastewater) or Project Engineer (Water) - Req #1124 #1125**

At NTMWD, the Project Engineer functions in an engineering project delivery role for projects typically ranging from \$15M-\$50M. Our core business is water and wastewater treatment and conveyance, but project assignments could also include solid waste and other special assignments as needed. The project engineer position is a next level opportunity for the engineering or construction professional with technical expertise and more than 5 years' experience looking to advance their professional development into managing projects from concept through construction. The Project Engineer works under the direction of an Engineering Program Manager and fills a critical role in our organization as the position that leads the delivery of the majority projects for our organization. The Project Engineer position offers an opportunity for increased responsibility and career development and includes potential promotional opportunities based on professional achievements and tenure. The Project Engineer is distinguished from our Associate Engineer position by the size and complexity of the project assignment, level of autonomy in making engineering decisions, professional accreditation, and experience.

## **Associate Engineer (Water/Wastewater) or Associate Engineer (Water) – Req #1123 and #1122**

At NTMWD, the Associate Engineer is responsible for the delivery of major water and wastewater projects. This role offers an early career professional an opportunity to be the project leader on water and wastewater treatment or conveyance projects typically ranging from \$5M to \$25M. The Associate Engineer position offers an opportunity to develop your engineering and project management skills under the guidance of Senior Project Engineers and Engineering Program Managers. As the entry level position in the Engineering Department, you would be the future of the organization and have the opportunity for professional development that is rewarded with potential promotional opportunities based on professional achievements such as licensure and also tenure with the organization.



## Closing Remarks

- Thank you all CMs and Consulting Engineers – we can't deliver our CIP program without you
  - We will average between 20-30 new Engineering starts per year
  - Depending on packaging – similar number of construction projects
- If you talk to Contractors – tell them we need them to play nice with each other
  - Can't do collaborative delivery if other people won't bid their projects
  - CMAR will not work if the CMAR's goal is to self-perform 80% of the work
- We need more resources in the market
  - Don't just hire from other consultants already in DFW – we need more people
  - Also, tell contractors in other markets about the potential opportunities here
- Cost and Schedule are still important
- Focus on quality – it makes everything better



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