TO: BOARD OF DIRECTORS

FROM: THOMAS W. KULA, EXECUTIVE DIRECTOR

DATE: JUNE 19, 2014

SUBJECT: REGULAR MEETING – THURSDAY, JUNE 26, 2014

I. FINANCE/AUDIT COMMITTEE MEETING

A Finance/Audit Committee meeting will be held prior to the Board meeting on Thursday, June 26, 2014, at 1:30 p.m.

Directors not on the Committee are welcome to attend.

II. RIBBON CUTTING AND PHOTO SESSION

As a reminder, the ribbon cutting and photo session for the Texoma Pipeline and Ozonation facilities will also be held prior to the Board meeting on Thursday, June 26, 2014, at 2:30 p.m. Due to the hot weather, dress for these events is “business casual.”

III. TEXOMA PIPELINE PROJECT AWARD RECOGNITION

The American Public Works Association – Texas Chapter has announced that the NTMWD Lake Texoma-to-Wylie Water Treatment Plant Pipeline Extension project has been named one of the APWA Projects of the Year.

As you know, the project was in response to two emergencies – drought and the arrival of invasive zebra mussels in Lake Texoma, which resulted in the loss of 28% of NTMWD raw water supply. The project involved 48 miles of 84-inch and 96-inch pipeline, a 240-million-gallon earthen balancing reservoir, and modifications to four water treatment plants. The award was presented at the TPWA Annual Meeting on June 19, 2014, in Galveston.

We want to congratulate our NTMWD staff and consultants for their efforts in restoring the Texoma water supply, 28% of NTMWD’s total supply, and will recognize key staff members involved with this project at the June Board meeting.
IV. LOOKOUT TRANSFER STATION SETTLEMENT AGREEMENT

This is to notify the Board of Directors of two agreements with the Protestants against the Lookout Drive Transfer Station permit amendment application in which the NTMWD will commit to certain actions in return for the Protestants' commitment to withdraw their opposition to the permit amendment application. On June 9, 2014, a Partial Settlement Agreement was executed wherein the NTMWD agreed to construct a minimum 12-foot tall sound wall along a portion of the perimeter of the property in return for the Protestants' agreement to withdraw an expert witness for a number of issues that were the subject of the contested case hearing. During the week of June 16, 2014, an agreement in principle (Settlement Agreement) was negotiated with the Protestants, which will result in withdrawal of the Protestants' opposition.

Through Administrative Memorandum No. 2944, the Board of Directors authorized the Executive Director to enter into an engineering services agreement with CP&Y to prepare the Texas Commission on Environmental Quality (TCEQ) permit amendment application to relocate and expand the Lookout Drive Transfer Station. In October 2010, the Board approved Resolution No. 10-26, which authorized the Executive Director to act on behalf of the NTMWD and "take all necessary actions on behalf of NTMWD in furtherance of the permitting process."

The permit amendment application was submitted to the TCEQ in October 2011 and was deemed technically complete in December 2012. In October 2013, the TCEQ referred the permit amendment application to the State Office of Administrative Hearings (SOAH) to settle nine contested issues through a contested case hearing. Since that time, the NTMWD and the Protestants have proceeded to meet the various deadlines leading toward the SOAH hearing scheduled to begin July 14, 2014. During the week of June 16, 2014, the Protestants and NTMWD negotiated a Settlement Agreement that stipulates the Protestants will withdraw their opposition to the permit amendment application in return for the following:

1. NTMWD pay the Protestants a total of $47,500 to mitigate their litigation expenses.
2. NTMWD modify the permit amendment application such that the average daily throughput of waste will be as follows:
   - 625 tons per day until January 1, 2022
   - 700 tons per day from January 2, 2022 until January 1, 2025
   - 725 tons per day after January 1, 2025

For perspective, the permit amendment application has an annual average daily throughput of 750 tons per day and a maximum daily throughput of 1,500 tons per day, while the current permit has an annual average daily throughput of 500 tons per day, with no maximum daily throughput. The Settlement Agreement is being developed by NTMWD's legal counsel for this project, Lloyd, Gosselink, Rochelle & Townsend, P.C. The Settlement Agreement and Partial Settlement Agreement are available for review upon request.
Once the Administrative Law Judge concurs with the Settlement Agreement, the application will be sent directly to the TCEQ Executive Director for signature with no further involvement of the TCEQ Commissioners. While there will be an additional opportunity for commenting on the permit issuance after it is signed by the TCEQ Executive Director, it is anticipated the permit will be final and unappealable by mid-September 2014.

V. COMMITTEE APPOINTMENTS

NTMWD Policy No. 15 states, "When a new President takes office on June 1, it shall be the President's duty to appoint or reappoint the members of the standing Committees so that composition of the Committees are compatible with the plans and goals of the NTMWD." President Whiteside has reviewed the existing Committees and has made changes in accordance with NTMWD Policy and his judgment concerning the exposure of each Director to all phases of District activity. A list of the appointments for the Committees for the 2014 – 2015 year is enclosed. Please note that the Executive Committee (President, Vice President, Secretary, and Past President) are not assigned any specific Committees; however, they are invited to attend every Committee meeting.

VI. BOARDROOM SEATING CHART

Following this memorandum is a copy of the seating arrangements for the Board of Directors in the Boardroom.

VII. ENCLOSURES

A. AGENDA – REGULAR MEETING – June 26, 2014
B. CONSENT AGENDA ITEM NO. 14-06-01 – Minutes, Regular Meeting, May 22, 2014
C. CONSENT AGENDA ITEM NO. 14-06-02 – Forney Mustang Creek Interceptor System, Forney Lift Station Improvements, Project No. 255, Change Order No. 1
D. CONSENT AGENDA ITEM NO. 14-06-03 – Regional Solid Waste System, 121 Regional Disposal Facility, Sector 4A Liner and Leachate Collection System Construction, Project No. ENG 13-3A, Change Order No. 1 and Authorization to Make Final Payment
E. ADMINISTRATIVE MEMORANDUM NO. 4204 – Regional Water System 2014 Bond Issue, Resolution No. 14-9
F. ADMINISTRATIVE MEMORANDUM NO. 4205 – Amendment of District Policy No. 19, Water Rebate Procedure
G. ADMINISTRATIVE MEMORANDUM NO. 4206 – Regional Solid Waste System, Lookout Drive Transfer Station, Permit Amendment Application, Project No. SWCF 06-1 (093) Additional Engineering Services
H. ADMINISTRATIVE MEMORANDUM NO. 4207 – Regional Water System, Electrical Improvements at High Service Pump Station 1-1, Project No. 202, Change Order No. 1
I. ADMINISTRATIVE MEMORANDUM NO. 4208 – Regional Water System, Water Treatment Plants I, II, III, and IV Ozonation, Project No. 153, Legal Services
K. ADMINISTRATIVE MEMORANDUM NO. 4210 – Regional Water System, Lake Tawakoni Water Treatment Plant Sludge Lagoon Improvements, Project No. 312, Change Order No. 1
L. ADMINISTRATIVE MEMORANDUM NO. 4211 – Regional Wastewater System, Wilson Creek Regional Wastewater Treatment Plant, Plant II Odor Control Improvements, Project No. 349, Tabulation of Bids and Award of Contract
M. ADMINISTRATIVE MEMORANDUM NO. 4212 – Upper East Fork Interceptor System, Preston Road Lift Station, Prairie Creek Lift Station, and Beck Branch Lift Station, Emergency Generators, Project No. 361, Engineering Services Agreement
N. ADMINISTRATIVE MEMORANDUM NO. 4213 – Regional Water System, High Service Pump Station 2-2 and 2-3 Mechanical Improvements, Project No. 261, Tabulation of Bids and Award of Contract
O. ADMINISTRATIVE MEMORANDUM NO. 4214 – Regional Water System, Legal Services for Lower Bois d’Arc Creek Reservoir Power Supply, Project No. 362
P. ADMINISTRATIVE MEMORANDUM NO. 4215 – Regional Solid Waste System, 121 Regional Disposal Facility, 2014 Phase 3 Landfill Gas System Expansion, Project No. ENG 14-2, Tabulation of Bids and Award of Contract
Q. ADMINISTRATIVE MEMORANDUM NO. 4216 – Regional Water System, McCree Road 6 MG Ground Storage Tank, Project No. 357, Engineering Services Agreement
R. ADMINISTRATIVE MEMORANDUM NO. 4217 – NTMWD Administration Building, Structural Repairs, Building Renovations, and Building Additions, Project No. 301, Additional Engineering Services
S. ADMINISTRATIVE MEMORANDUM NO. 4218 – Regional Water System, Meter Vault Standardization, Phase II, Set-Point Control, Project No. 338, Preliminary Engineering Services Agreement
T. ADMINISTRATIVE MEMORANDUM NO. 4219 – Regional Wastewater System, Wilson Creek Regional Wastewater Treatment Plant, Electrical Improvements, Phase I, Final Design, Project No. 343, Engineering Services Agreement
U. ADMINISTRATIVE MEMORANDUM NO. 4220 – Regional Water System, Plano No. 4 Delivery Point Metering Station Upgrade, Project No. 316, Additional Engineering Services
V. ADMINISTRATIVE MEMORANDUM NO. 4221 – Upper East Fork Interceptor System, Indian Creek/Preston Road Force Main Surge Improvements, Project No. 334, Engineering Services Agreement
W. WATER CONSUMPTION REPORT – May 2014
X. WASTEWATER SYSTEM REPORT – May 2014
Y. SOLID WASTE SYSTEM REPORT – May 2014
Z. CONSTRUCTION PROGRESS REPORT – May 31, 2014
AA. NTMWD FINANCIAL STATEMENTS FOR THE MONTH ENDED MAY 31, 2014
NORTH TEXAS MUNICIPAL WATER DISTRICT

BOARD OF DIRECTORS
COMMITTEES
2014-2015

STANDING COMMITTEES

EXECUTIVE COMMITTEE

1. Darwin Whiteside
2. Joe Joplin
3. Terry Anderson
4. Bill Lofland

President
Vice-President
Secretary
Past President

WATER

1. Charles Mckissick, Chairman
2. John Sweeden
3. Bob Thurmond
4. Shep Stahel
5. Larry Parks
6. Don Gordon
7. Richard Sheehan

WASTEWATER

1. Marvin Fuller, Chairman
2. Jack May
3. Bobby Robinson
4. Joe Farmer
5. Jim Mellody
6. Darrell Grooms
7. Gary Downey

SOLID WASTE

1. Lynn Shuyler, Chairman
2. Bill Harrison
3. Jerry Yancey
4. Jim Kerr
5. Patrick Nicklen
6. John Murphy
7. Don Cates
Board of Directors Committees
2014-2015
Page 2

INSURANCE
1. Larry Parks, Chairman
2. Lynn Shuyler
3. John Murphy
4. Jerry Yancey
5. Jim Mellody
6. Jack May
7. Richard Sheehan

FINANCE/AUDIT
1. John Sweeden, Chairman
2. Joe Farmer
3. Don Cates
4. Charles McKissick
5. Shep Stahel
6. Don Gordon
7. Marvin Fuller

PERSONNEL
1. Patrick Nicklen, Chairman
2. James Kerr
3. Bill Harrison
4. Darrell Grooms
5. Gary Downey
6. Bobby Robinson
7. Bob Thurmond

LEGISLATIVE
1. Joe Farmer, Chairman
2. John Murphy
3. Don Gordon
4. Patrick Nicklen
5. Larry Parks
6. Marvin Fuller
7. Darrell Grooms

POLICY
1. Darwin Whiteside, Chairman
2. Charles McKissick
3. Marvin Fuller
4. Lynn Shuyler
5. Larry Parks
6. John Sweeden
7. Patrick Nicklen
8. Joe Farmer

President
Water
Wastewater
Solid Waste
Insurance
Finance/Audit
Personnel
Legislative
WILSON CREEK OVERSIGHT COMMITTEE

1. Marvin Fuller, Chairman

JOHN BUNKER SANDS WETLAND CENTER BOARD OF DIRECTORS

1. Joe Farmer
2. Tom Kula
3. Mike Rickman
NORTH TEXAS MUNICIPAL WATER DISTRICT
505 E. Brown Street • Wylie, Texas 75098
(972) 442-5405 – Phone • (972) 295-6440 – Fax

BOARD OF DIRECTORS
REGULAR MEETING
THURSDAY, JUNE 26, 2014
4:00 P.M.

Notice is hereby given pursuant to V.T.C.A., Government Code, Chapter 551, that the Board of Directors of North Texas Municipal Water District will hold a regular meeting, open to the public, on Thursday, June 26, 2014, at 4:00 p.m., at the North Texas Municipal Water District offices, 505 E. Brown Street, Wylie, Texas.

The Board of Directors is authorized by the Texas Open Meetings Act to convene in closed or executive session for certain purposes. These purposes include receiving legal advice from its attorney (Section 551.071); discussing real property matters (Section 551.072); discussing gifts and donations (Section 551.073); discussing personnel matters (Section 551.074); or discussing security personnel or devices (Section 551.076). If the Board of Directors determines to go into executive session on any item on this agenda, the Presiding Officer will announce that an executive session will be held and will identify the item to be discussed and provision of the Open Meetings Act that authorizes the closed or executive session.

AGENDA\(^1\)

I. INVOCATION – DIRECTOR DON GORDON

II. ROLL CALL

III. RECOGNITION OF GUESTS

A. Registered Guests

IV. OATHS OF OFFICE

A. Director Joe Farmer, Allen  
B. Director Bill Harrison, Farmersville  
C. Director Darrell Grooms, Forney  
D. Director Gary Downey, Frisco  
E. Director Jack May, Garland  
F. Director Charles McKissick, McKinney

\(^1\)Persons with disabilities who plan to attend the NTMWD Board of Directors meeting and who may need auxiliary aids or services are requested to contact John Montgomery in the NTMWD Administrative Offices at (972) 442-5405 as soon as possible. All reasonable efforts will be taken to make the appropriate arrangements.
V. PUBLIC COMMENTS

The Board of Directors allows individuals to speak to the Board. Prior to the meeting, speakers must complete and submit a "Public Comment Registration Form." The time limit is five (5) minutes per speaker, not to exceed a total of thirty (30) minutes for all speakers. The Board may not discuss these items, but may respond with factual or policy information.

VI. CONSENT AGENDA ITEMS

The Consent Agenda allows the Board of Directors to approve all routine, noncontroversial items with a single motion, without the need for discussion by the entire Board. Any item may be removed from consent and considered individually upon request of a Board member.

A. Consider Approval of Board of Directors Meeting Minutes – May 22, 2014 (Please refer to Consent Agenda Item No. 14-06-01)

B. Consider Authorizing Change Order No. 1 on Project No. 255, Forney Lift Station Improvements (Please refer to Consent Agenda Item No. 14-06-02)

C. Consider Authorizing Change Order No. 1 and Authorization to Make Final Payment on Project No. ENG 13-3A, 121 Regional Disposal Facility Sector 4A Liner and Leachate Collection System Construction (Please refer to Consent Agenda Item No. 14-06-03)

VII. AGENDA ITEMS FOR INDIVIDUAL CONSIDERATION

A. Consider Adoption of Resolution No. 14-9 Authorizing the Issuance, Sale, and Delivery of North Texas Municipal Water District Water System Revenue Refunding and Improvement Bonds, Series 2014; Approving an Official Statement; and Approving and Authorizing Instruments and Procedures Relating Thereto (Please refer to Administrative Memorandum No. 4204)

B. Consider Amendment to District Policy No. 19 – Water Rebate Procedure (Please refer to Administrative Memorandum No. 4205)

C. Consider Authorizing Additional Engineering Services for Project No. SWCF 06-1 (093) Lookout Drive Transfer Station Permit Amendment Application (Please refer to Administrative Memorandum No. 4206)
D. Consider Authorizing Change Order No. 1 on Project No. 202, Electrical Improvements at High Service Pump Station 1-1  
(Please refer to Administrative Memorandum No. 4207)

E. Consider Authorizing Additional Funding for Legal Services on Project No. 153, Water Treatment Plants I, II, III, and IV Ozonation  
(Please refer to Administrative Memorandum No. 4208)

F. Consider Authorizing Change Order No. 27 on Project No. 153, Water Treatment Plants I, II, III, and IV Ozonation  
(Please refer to Administrative Memorandum No. 4209)

G. Consider Authorizing Change Order No. 1 on Project No. 312, Lake Tawakoni Water Treatment Plant Sludge Lagoon Improvements  
(Please refer to Administrative Memorandum No. 4210)

H. Consider Authorizing Award of Construction Contract on Project No. 349, Wilson Creek Regional Wastewater Treatment Plant II Odor Control Improvements  
(Please refer to Administrative Memorandum No. 4211)

I. Consider Authorizing Execution of Engineering Services Agreement on Project No. 361, Preston Road Lift Station, Prairie Creek Lift Station, and Beck Branch Lift Station Emergency Generators  
(Please refer to Administrative Memorandum No. 4212)

J. Consider Authorizing Award of Construction Contract on Project No. 261, High Service Pump Station 2-2 and 2-3 Mechanical Improvements  
(Please refer to Administrative Memorandum No. 4213)

K. Consider Authorizing Funding for Legal Services Associated with Obtaining Electric Power for Project No. 362, Lower Bois d’Arc Creek Reservoir Raw Water Pump Station and Leonard Water Treatment Plant  
(Please refer to Administrative Memorandum No. 4214)

L. Consider Authorizing Award of Construction Contract on Project No. ENG 14-2, 121 Regional Disposal Facility, 2014 Phase 3 Landfill Gas System Expansion  
(Please refer to Administrative Memorandum No. 4215)

M. Consider Authorizing Execution of Engineering Services Agreement on Project No. 357, McCree Road 6 MG Ground Storage Tank  
(Please refer to Administrative Memorandum No. 4216)

N. Consider Authorizing Additional Engineering Services on Project No. 301, NTMWD Administration Building Structural Repairs, Building Renovations, and Building Additions  
(Please refer to Administrative Memorandum No. 4217)

O. Consider Authorizing Execution of Engineering Services Agreement on Project No. 338, Meter Vault Standardization, Phase II, Set-Point Control  
(Please refer to Administrative Memorandum No. 4218)
P. Consider Authorizing Execution of Engineering Services Agreement on Project No. 343, Wilson Creek Regional Wastewater Treatment Plant Electrical Improvements, Phase I
(Please refer to Administrative Memorandum No. 4219)

Q. Consider Authorizing Additional Engineering Services for Project No. 316, Plano No. 4 Delivery Point Metering Station Upgrade
(Please refer to Administrative Memorandum No. 4220)

R. Consider Authorizing Execution of Engineering Services Agreement on Project No. 334, Indian Creek/Preston Road Force Main Surge Improvements
(Please refer to Administrative Memorandum No. 4221)

VIII. DISCUSSION

A. Water Supply Update

IX. ADJOURNMENT

NEXT REGULAR MEETING OF BOARD, THURSDAY, JULY 24, 2014, AT 4:00 P.M. IN THE ADMINISTRATIVE OFFICES, WYLIE, TEXAS
NORTH TEXAS MUNICIPAL WATER DISTRICT
505 E. Brown Street • Wylie, Texas 75098
(972) 442-5405 – Phone • (972) 295-6440 – Fax

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS
HELD ON THURSDAY, MAY 22, 2014
IN THE NTMWD ADMINISTRATIVE OFFICES, WYLIE, TEXAS

The North Texas Municipal Water District Board of Directors met in Regular Session on Thursday, May 22, 2014, at 4:00 p.m. in the Administrative Offices, 505 East Brown Street, Wylie, Texas. Notice of the meeting was legally posted in accordance with Government Code, Title 551, Open Meetings.

President Bill Lofland called the meeting to order. President Bill Lofland advised that Director Larry Parks would be abstaining from voting on Agenda Item Nos. VI. J. and O.

I. INVOCATION

Director Joe Farmer offered the invocation.

II. ROLL CALL

Secretary Joe Joplin conducted a roll call. All Directors were present for the May 22, 2014, Board meeting:

Terry Anderson        Jim Mellody
Don Cates            John Murphy
Gary Downey          Patrick Nicklen
Joe Farmer           Larry Parks
Marvin Fuller        Bobby Robinson
Don Gordon           Richard Sheehan
Darrell Grooms       Lynn Shuyler
Bill Harrison        Shep Stahel
Joe Joplin           John Sweeden
James Kerr           Bob Thurmond
Bill Lofland         Darwin Whiteside
Jack May             Jerry Yancey
Charles McKissick

The following NTMWD consultants attended the meeting:

Shannon Kackley — Gay McCall Isaacks Gordon & Roberts
David Medanich — First Southwest Company
Mark Walsh — Saunders, Walsh, & Beard
III. RECOGNITION OF GUESTS

A. Registered Guests

There were no registered guests recognized; however, Executive Director Tom Kula recognized NTMWD's newly appointed Engineering Officer, Jeff Ray.

IV. PUBLIC COMMENTS

The following individuals provided comments to the Board of Directors:

A. Neil Sperry spoke to his concerns related to extending the seasonal watering restrictions of once every two weeks and expressed his desire to put building permits/incentives on hold.

B. Johnette Taylor with Roundtree Landscaping, spoke on behalf of Texas Nursery and Landscape Association, related her concerns with extending the seasonings watering restrictions of once every two weeks, and expressed her desire that NTMWD and the landscape industry work together for solutions.

C. Brodie Bruner with Weathermatic Water Conserving Innovation spoke to his concerns related to extending the seasonal watering restrictions of once every two weeks and expressed his desire to utilize smart irrigation and technology to effectively manager water resources.

D. Arranda Griffin with Smart Outdoor Services spoke on behalf of the Dallas Irrigation and Texas Turf Association regarding her concerns related to extending the seasonal watering restrictions of once every two weeks and expressed her desire that NTMWD utilize the turf industry as a resource to benefit all.

Executive Director Tom Kula thanked the speakers and asked that all interested parties leave a business card for future contact.

V. CONSENT AGENDA ITEMS

Consent Agenda Item No. V. H. was pulled from the consent agenda for individual consideration.

Upon a motion by Director James Kerr and a second by Director Terry Anderson, the Board of Directors voted unanimously to approve all the consent agenda items except Item No. V. H. as follows:

A. Consider Approval of Board of Directors Meeting Minutes – April 24, 2014 (Please refer to Consent Agenda Item No. 14-05-01)

B. Consider Authorizing Change Order No. 2 on Project No. 276, Wylie Water Treatment Plant Finished Water Reservoir and Flow Metering Improvements (Please refer to Consent Agenda Item No. 14-05-02)
MINUTES – BOARD OF DIRECTORS
MAY 22, 2014
PAGE 3

C. Consider Authorizing Engineering Services Fee Adjustment on Project No. 229, Wylie Water Treatment Plant Security Enhancements, Phase 2
   (Please refer to Consent Agenda Item No. 14-05-03)

D. Consider Authorizing Change Order No. 1 on Project No. 322, 121 Regional Disposal Facility Scale House Improvements
   (Please refer to Consent Agenda Item No. 14-05-04)

E. Consider Authorizing Change Order No. 1 and Authorization to Make Final Payment on Project No. ENG 13-3B, 121 Regional Disposal Facility, Sector 4A Liner Material Purchase/Install
   (Please refer to Consent Agenda Item No. 14-05-05)

F. Consider Authorizing Additional Engineering Services on Project No. 201, Electrical Improvements at Raw Water Pump Station No. 2
   (Please refer to Consent Agenda Item No. 14-05-06)

G. Consider Authorizing Change Order No. 2 on Project No. 293, Bonham Water Treatment Plant Sludge Lagoon Improvements
   (Please refer to Consent Agenda Item No. 14-05-07)

H. Consider Authorizing Funding Contribution to Region C Water Planning Group for Public Awareness Effort
   (Please refer to Consent Agenda Item No. 14-05-08)

Since this item was pulled from the Consent Agenda, it was considered as a separate action item.

On a motion by Director Jerry Yancey and a second by Director Shep Stahel, the Board of Directors voted unanimously to authorize funding in the amount of $4,000 to the Region C Water Planning Group Administrative Fund as NTMWD's contribution to the public awareness effort.

VI. AGENDA ITEMS FOR INDIVIDUAL CONSIDERATION

A. Consider Election of Officers for Board of Directors for 2014-2015

   Upon the recommendation of the Nominating Committee, a motion by Director Charles McKissick and a second by Director Jerry Yancey, the Board of Directors voted unanimously to elect the following officers for 2014-2015 Board of Directors: Director Darwin Whiteside - President; Director Joe Joplin - Vice-President; Director Terry Anderson - Secretary.

B. Consider Adoption of Resolution No. 14-7 Authorizing Award of 2014-2015 Treatment Chemical Supply Agreements
   (Please refer to Administrative Memorandum No. 4188)

   Upon a motion by Director Lynn Shuyler and a second by Director Patrick Nicklen, the Board of Directors voted unanimously to adopt Resolution No. 14-7 authorizing award of the 2014-2015 Treatment Chemical Supply Agreements to
the Recommended Vendors as listed in Administrative Memorandum No. 4188 for the term of July 1, 2014, through June 30, 2015.

C. Consider Authorizing Execution of Multijurisdictional Pretreatment Agreement with the City of McLendon-Chisholm (Please refer to Administrative Memorandum No. 4189)

Upon a motion by Director Jerry Yancey and a second by Director James Kerr, the Board of Directors voted to authorize execution of the Multijurisdictional Pretreatment Agreement with the City of McLendon-Chisholm.

D. Consider Adoption of District Policy No. 39, Reporting Requirements (Please refer to Administrative Memorandum No. 4190)

Upon the recommendation of the Policy Committee, a motion by Director Bill Lofland, and a second by Director Shep Stahel, the Board of Directors voted unanimously to adopt District Policy No. 39, Reporting Requirements.

E. Consider Authorizing Execution of Engineering Services Agreement on Project No. 352, Water Treatment Plant Water System Operations Center (Please refer to Administrative Memorandum No. 4191)

Upon a motion by Director Lynn Shuyler and a second by Director Patrick Nicklen, the Board of Directors voted unanimously to authorize the Executive Director to execute an engineering services agreement with Huitt-Zollars, Inc., for professional services associated with design of the Water System Operations Center, Project No. 352, in the not-to-exceed amount of $192,452.

F. Consider Authorizing Change Order No. 1 on Project No. 288, South Mesquite Creek Regional Wastewater Treatment Plant, Solids Building Odor Control Improvements (Please refer to Administrative Memorandum No. 4192)

Upon a motion by Director Terry Anderson and a second by Director Joe Farmer, the Board of Directors voted unanimously to authorize Change Order No. 1 for an increase of $11,371.12, resulting in a revised contract amount of $1,710,571.12 and ninety-eight (98) calendar days of additional contract time, resulting in revised substantial and final completion dates of July 22, 2014, and September 20, 2014, respectively, for the South Mesquite Creek Regional Wastewater Treatment Plant Solids Building Odor Control Improvements, Project No. 288.

G. Consider Authorizing Additional Engineering Services on Project No. WCF 07-4 (099), Lake Tawakoni Water Treatment Plant (Please refer to Administrative Memorandum No. 4193)

Upon a motion by Director Darrell Grooms and a second by Director Jerry Yancey, the Board of Directors voted unanimously to authorize an increase to the engineering services agreement with Black & Veatch Corporation for additional professional services associated with the construction phase on the Lake
Tawakoni Water Treatment Plant, Project No. WCF 07-4 (099), in the amount of $109,571, resulting in a revised total not-to-exceed engineering services fee of $3,162,635.54.

H. Consider Authorizing Pre-Selection and Award of Bid for Equipment for Wilson Creek Regional Wastewater Treatment Plant Filter Improvements, Project No. 309
(Please refer to Administrative Memorandum No. 4194)

Upon a motion by Director Bob Thurmond and a second by Director Bobby Robinson, the Board of Directors voted unanimously to authorize the pre-selection and award of equipment provided by Aqua-Aerobics Systems including five 8 MGD Aqua-Disk units and provision of temporary filter capacity during construction for the guaranteed price of $1,049,445 for the Wilson Creek Regional Wastewater Treatment Plant Filter Improvements, Project No. 309.

I. Consider Authorizing Additional Engineering Services on Project No. 302, Water Treatment Plant II Filter Underdrain Improvements and Conversion to Biologically Active Filters
(Please refer to Administrative Memorandum No. 4195)

Upon a motion by Director Lynn Shuyler and a second by Director John Murphy, the Board of Directors voted unanimously to authorize an increase to the engineering services fee with Carollo Engineers for Water Treatment Plant II Filter Underdrain Improvements and Conversion to Biologically Active Filters, Project No. 302, in the amount of $215,100 resulting in a revised not-to-exceed engineering services fee of $956,800.

J. Consider Authorizing Execution of Engineering Services Agreement on Project No. 321, Expansion of Raw Water Pump Station No. 3 to 620 MGD
(Please refer to Administrative Memorandum No. 4196)

Upon a motion by Director Lynn Shuyler and a second by Director Bob Thurmond, the Board of Directors voted unanimously to authorize the Executive Director to execute an engineering services agreement with Freese and Nichols, Inc., for professional services associated with engineering and construction phase services for the Expansion of Raw Water Pump Station No. 3 to 620 MGD, Project No. 321, in the not-to-exceed amount of $356,600.

K. Consider Authorizing Execution of Engineering Services Agreement on Project No. 360, Raw Water Pump Station No. 2 Mechanical Improvements
(Please refer to Administrative Memorandum No. 4197)

Upon a motion by Director James Kerr and a second by Director Patrick Nicklen, the Board of Directors voted unanimously to authorize the Executive Director to execute an engineering services agreement with Kimley-Horn and Associates, Inc., for design and construction phase services for Raw Water Pump Station No. 2 Mechanical Improvements, Project No. 360, in the not-to-exceed amount of $168,900.
L. Consider Authorizing Change Order No. 3 and Authorization to Make Final Payment on Project No. 284, Water Treatment Plants I and II Sludge Line Improvements
   (Please refer to Administrative Memorandum No. 4198)

   Upon a motion by Director John Murphy and a second by Director Jerry Yancey, the Board of Directors voted unanimously to authorize Change Order No. 3 for an increase of $32,235 resulting in a revised contract amount of $590,799 and 50 additional days of contract time, resulting in a revised final completion date of April 25, 2014, and to authorize final payment to PCL Construction, Inc., for Water Treatment Plants I and II Sludge Line Improvements, Project No. 284.

M. Consider Authorizing Change Order No. 7 on Project No. 259, Water Treatment Plant I Conversion to Biologically Active Filtration and Improvement of Existing Underdrains
   (Please refer to Administrative Memorandum No. 4199)

   Upon a motion by Director Lynn Shutler and a second by Director Bob Thurmond, the Board of Directors voted unanimously to authorize Change Order No. 7 for the Water Treatment Plant I Conversion to Biologically Active Filtration and Improvement of Existing Underdrains, Project No. 259, for an increase in the amount of $152,185, resulting in a revised contract amount of $8,363,355.75.

N. Consider Authorizing Execution of Engineering Services Agreement for Muddy Creek Wastewater Treatment Plant Evaluation
   (Please refer to Administrative Memorandum No. 4200)

   Upon a motion by Director Marvin Fuller and a second by Director Lynn Shutler, the Board of Directors voted unanimously to authorize the Executive Director to execute an engineering services agreement with Perkins Engineering Consultants, Inc., for professional services associated with the Muddy Creek Wastewater System Evaluation in the not-to-exceed amount of $141,483.

O. Consider Authorizing Construction Services Agreement Extension to Construction Manager at Risk for Project No. 268, Lake Texoma Outfall to Wylie Water Treatment Plant Raw Water Pipeline
   (Please refer to Administrative Memorandum No. 4201)

   Upon a motion by Director Don Gordon and a second by Director Patrick Nicklen, the Board of Directors voted unanimously to authorize an extension to the Construction Manager at Risk Construction Services Agreement for Garney Construction Companies, Inc., in the amount of $105,412 for construction services associated with the Lake Texoma Outfall to Wylie Water Treatment Plant Raw Water Pipeline, Project No. 268.

P. Consider Authorizing Extension of Seasonal Watering as Written in Stage 3 of the NTMWD’s Water Conservation and Drought Contingency/Water Emergency Response Plan
   (Please refer to Administrative Memorandum No. 4202-A)
Upon a motion by Director Darrell Grooms and a second by Director Terry Anderson, the Board of Directors voted unanimously to authorize extension of seasonal watering through October 2014 as written in Stage 3 of the NTMWD’s Water Conservation and Drought Contingency/Water Emergency Response Plan with implementation of the extension by the Member Cities and Customers no later than June 1, 2014, or as soon as possible thereafter.

Q. Consider Adoption of Resolution No. 14-8 Authorizing Partial Settlement of Lawsuit: North Texas Municipal Water District vs. Jennings Hackler Partners, Inc., Turkworks Engineering, Ltd., et al, Granting the Executive Director Authority to Enter Into Partial Settlement of Lawsuit Settling All Claims Against Construction Defendants Including the Authority to Execute Any Necessary Settlement Documents
(Please refer to Administrative Memorandum No. 4203)

The regular session recessed at 5:54 p.m.

President Bill Lofland declared a need for an Executive Session of the Board of Directors to consult with attorneys pursuant to Section 551.071 of the Texas Government Code. The Executive Session was called to order by President Bill Lofland at 5:55 p.m.

The Executive Session adjourned at 6:14 p.m.

The Board of Directors reconvened into regular session at 6:15 p.m.

Upon a motion by Director Shep Stahel and a second by Bob Thurmond, the Board of Directors voted unanimously to adopt Resolution No. 14-8 granting the Executive Director authority to enter into a partial settlement of the lawsuit styled, North Texas Municipal Water District vs. Jennings Hackler Partners, Inc., Turkworks Engineering, Ltd., et al, along the general terms described above, including the authority to execute any necessary settlement documents in keeping with those general terms.

VII. DISCUSSION ITEM

A. Water Supply Update

Mike Rickman provided a water supply update during consideration of Item VI. P.

VIII. ADJOURNMENT

There being no further business, the meeting adjourned at approximately 6:16 p.m. The next regular meeting of the NTMWD Board of Directors will be held Thursday, June 26, 2014, at 4:30 p.m. in the NTMWD Administrative Offices, 505 E. Brown Street, Wylie, Texas.
MINUTES – BOARD OF DIRECTORS
MAY 22, 2014
PAGE 8

APPROVED:

BILL LOFLAND, President

ATTEST:

JOE JOPLIN, Secretary

(Seal)
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

CONSENT AGENDA ITEM NO. 14-06-02

FORNEY MUSTANG CREEK INTERCEPTOR SYSTEM
FORNEY LIFT STATION IMPROVEMENTS
PROJECT NO. 255

CHANGE ORDER NO. 1

This consent agenda item is for the Board of Directors consideration of Change Order No. 1 for: 1) an increase of $18,884 resulting in a revised contract amount of $1,242,034; and, 2) fifty-three (53) days of additional contract time resulting in revised substantial and final completion dates of July 29, 2014, and September 27, 2014, respectively, for the Forney Lift Station Improvements, Project No. 255.

REVIEW

The purpose of this project is to replace three existing pumps with necessary suction and discharge piping modifications to increase the firm capacity from 5.4 MGD to approximately 9 MGD, replace the existing switchgear and provide new switchgear inside a newly constructed electrical room, add variable frequency drives for the new pumps, and upgrade the existing Supervisory Control and Data Acquisition (SCADA) system.

In June 2011, the Board approved Administrative Memorandum No. 3651 authorizing an engineering services agreement with Freeman Millican, Inc., (FMI) for design of the Forney Mustang Creek Interceptor System Improvements. These improvements are segmented into six construction contracts in order to reduce their respective sizes and to allow staggered progress of the overall improvements. The improvements are designed to meet the City of Forney’s anticipated wastewater system peak flows through 2021.

In July 2013, the Board approved Administrative Memorandum No. 4018 authorizing the award of the construction contract for the Forney Lift Station Improvements, Project No. 255 to Archer Western Construction, LLC, in the contract amount of $1,223,150.

CHANGE ORDER NO. 1

Proposed Change Order No. 1 consists of one item impacting the work scope for this project.

Item No. 1 – Provide Standby Pump

$18,884

53 Calendar Days

- **Issue:** During replacement of the three existing pumps, one pump at a time will be out of service. Until the time that two of the new larger pumps are installed and operational, the lift station will not have sufficient firm capacity to handle potential peak flows. The contract documents did not include the requirement for the contractor to provide this level of redundancy.
CONSENT AGENDA ITEM NO. 14-06-02
PAGE 2

- **Recommendation:** Require the contractor to provide a standby pump to ensure that peak flows could be handled if one of the remaining service pumps is out of service. The standby pump will be required onsite until two of the new pumps have been installed.

- **Proposed Cost:** The contractor has submitted a proposed additional price of $18,884 for the standby pump.

- **Additional Contract Time:** The contractor has requested that 53 calendar days be added to the contract, representing the time lost while the bypass pump issue was being evaluated and approved.

The proposed cost and time has been reviewed and is recommended by both NTMWD staff and FMI as appropriate for the time and effort required.

**SUMMARY OF ADJUSTMENTS TO CONTRACT**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>Days to Substantial Completion</th>
<th>Days to Final Completion</th>
</tr>
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<tbody>
<tr>
<td>Original Contract</td>
<td>$1,223,150</td>
<td>270 days</td>
<td>330 days</td>
</tr>
<tr>
<td>Proposed C.O. No. 1</td>
<td>$18,884</td>
<td>53 days</td>
<td>53 days</td>
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<td>Revised Contract Amount</td>
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<tr>
<td>Revised Contract Dates</td>
<td>July 29, 2014</td>
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<td>September 27, 2014</td>
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</tbody>
</table>

**FUNDING**

Additional funding in the amount of $18,884 for Change Order No. 1 is available in the Mustang Creek Interceptor System 2012 Construction Fund.

**RECOMMENDATION**

It is the recommendation of the Executive Director, NTMWD staff, and Freeman Millican, Inc., that the Board of Directors authorize Change Order No. 1 for: 1) an increase of $18,884, resulting in a revised contract amount of $1,242,034; and, 2) fifty-three (53) calendar days of additional contract time, resulting in revised substantial and final completions dates of July 29, 2014, and September 27, 2014, respectively, for the Forney Lift Station Improvements, Project No. 255. This will be an item on the consent agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

CONSENT AGENDA ITEM NO. 14-06-03

REGIONAL SOLID WASTE SYSTEM
121 REGIONAL DISPOSAL FACILITY SECTOR 4A LINER
AND LEACHATE COLLECTION SYSTEM CONSTRUCTION
PROJECT NO. ENG 13-3A

CHANGE ORDER NO. 1
AND
AUTHORIZATION TO MAKE FINAL PAYMENT

This consent agenda item is for the Board of Directors consideration of: 1) Change Order No. 1 for an increase of $14,634.20 resulting in a revised contract amount of $364,615.35; and, 2) authorization to make final payment to Hammett Excavation, Inc., in the final contract amount of $364,615.35 for Project No. ENG 13-3A, 121 Regional Disposal Facility Sector 4A Liner and Leachate Collection System Construction (Project No. ENG 13-3A).

REVIEW

In July 2013, the Executive Director executed an engineering services agreement with Biggs and Mathews Environmental, (Biggs and Mathews) for design of Project No. ENG 13-3A.

In January 2014, the Board approved Administrative Memorandum No. 4124 authorizing the award of a construction contract for Project No. ENG 13-3A to Hammett Excavation, Inc., in the amount of $349,981.15.

CHANGE ORDER NO. 1

Proposed Change Order No. 1 consists of one item that impacts the scope of work for this project.

Item No. 1 – Adjustment to Contract Quantities

As with any construction project, the original bid quantities can change due to actual field conditions encountered during construction. The following adjustment to contract quantities was made to the indicated bid items in response to the actual conditions encountered:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Unit</th>
<th>Unit Cost</th>
<th>Original Qty.</th>
<th>Revised Qty.</th>
<th>Diff.</th>
<th>Total Amt.</th>
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<tbody>
<tr>
<td>4</td>
<td>Earthwork – General Excavation</td>
<td>CY</td>
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<td>15,460</td>
<td>5,460</td>
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<td>5</td>
<td>Earthwork – General Earth fill</td>
<td>CY</td>
<td>$2.24</td>
<td>10,000</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$14,634.20</td>
</tr>
</tbody>
</table>
CONSENT AGENDA ITEM NO. 14-06-03
PAGE 2

The proposed adjustment of quantities and related costs have been reviewed and are recommended by both NTMWD staff and Biggs and Mathews as appropriate for the time and effort required.

SUMMARY OF ADJUSTMENTS TO CONTRACT

<table>
<thead>
<tr>
<th>Description</th>
<th>Contract Amount</th>
<th>Calendar Days to Substantial Completion</th>
<th>Calendar Days to Final Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Contract</td>
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<td>65</td>
<td>95</td>
</tr>
<tr>
<td>Proposed C.O. No. 1</td>
<td>14,634.20</td>
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<td></td>
</tr>
<tr>
<td>Final Contract Amount</td>
<td>$364,615.35</td>
<td>65</td>
<td>95</td>
</tr>
</tbody>
</table>

All work on the project is complete. This project was considered substantially complete on April 22, 2014. The contractor completed all punchlist items and achieved final completion prior to the final completion date of May 23, 2014.

FUNDING

Additional funding in the amount of $14,634.20 for Change Order No. 1 is available in the Regional Solid Waste System 2013-14 Operating Budget (Account 401-5523-54151 Landfill Development Cost - Contract).

RECOMMENDATION

It is the recommendation of the Executive Director, NTMWD staff, and Biggs and Mathews Environmental that the Board of Directors authorize: 1) Change Order No. 1 for an increase of $14,634.20 resulting in a revised contract amount of $364,615.35; and, 2) final payment to Hammett Excavation, Inc., in the final contract amount of $364,615.35 for the 121 Regional Disposal Facility Sector 4A Liner and Leachate Collection System Construction, Project No. ENG 13-3A. This will be an item on the consent agenda of the June 2014 Board meeting.
The Board of Directors is requested to adopt Resolution No. 14-9, "A Resolution Authorizing the Issuance, Sale and Delivery of North Texas Municipal Water District Water System Revenue Refunding and Improvement Bonds, Series 2014; Approving an Official Statement; and Approving and Authorizing Instruments and Procedures Related Thereto".

On May 22, 2014, NTMWD staff and NTMWD's Financial Advisor, First Southwest Company, reviewed the process and procedure for the issuance of approximately $150 million to $160 million of 2014 Regional Water System Bonds with the Finance Committee. The bond issue includes funding for the following:

- $19 million for acquisition of property and design of the dam for the Lower Bois d'Arc Creek Reservoir
- $54 million for construction of other system improvements including:
  - $11 million for the Wylie WTP II Filter Underdrain Improvements
  - $10 million for the Shiloh Pump Station Improvements
  - $6 million for the 48-Inch Wylie to Lavon No. 2 Pipeline
  - $6 million for the HSPS 2-2 and HSPS 2-3 Mechanical Improvements
  - $5 million for the 24-Inch Pipeline from Lavon No. 1 to Cash SUD Delivery Point
- $85 million to refund a portion of the outstanding 2006 and 2006A bonds at favorable interest rates

The size of bond issue (currently estimated to be between $150 and $160 million) is subject to change due to the nature of the refunding and changes in market conditions that may occur near the time of the bond issue.

NTMWD bond counsel, McCall, Parkhurst and Horton, L.L.P., has prepared the attached Preliminary Bond Resolution and First Southwest Company has prepared the attached Preliminary Official Statement. Representatives from both firms will be present at the Board meeting to review updates to the documents and the financing procedures.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors adopt Resolution No. 14-9, "A Resolution Authorizing the Issuance, Sale and Delivery of North Texas Municipal Water District Water System Revenue Refunding and Improvement Bonds, Series 2014; Approving an Official Statement; and Approving and Authorizing Instruments and Procedures Related Thereto". This will be an item on the regular agenda of the June 2014 Board meeting.
AMENDMENT OF DISTRICT POLICY NO. 19
WATER REBATE PROCEDURE

The Board of Directors is requested to amend District Policy No. 19, Water Rebate Procedure, to further enhance and encourage water conservation measures taken by Member Cities and Customers.

Attached is a "clean copy" and a "redlined copy" of District Policy No. 19, Water Rebate Procedure, which will be reviewed with the Finance Committee prior to the Board meeting on June 26, 2014. The amendment has been prepared by NTMWD's Water Rights Counsel, Lloyd Gosselink Rochelle & Townsend, P.C., and has been reviewed by NTMWD's Bond Counsel, McCall, Parkhurst and Horton, L.L.P.

Several minor updates for clarification purposes have been made throughout the document. The most significant revision is included in Section III.B, which adds the following two requirements in order for an entity to be eligible for rebate:

- The entity must have adopted and implemented the water management and drought response strategies approved by the Board of Directors; and,
- The entity must have met the minimum applicable water consumption goals established by the Board of Directors during the most recently completed twelve (12) month fiscal year (October 1 through September 30).

Also, with respect to any potential rebate funds that are not returned to ineligible entities, Section III.B has included a provision to allow the Board to either return those funds (increase the rebate amount) to entities that have achieved their goals or retain those funds.

There is no change to the methodology for the calculation of the rebate, which is based on the difference in the annual minimum and actual consumption for the water year (August 1 through July 31). However, the rebate would not be made to eligible entities until the completion of the fiscal year (September 30), which is the basis for the water consumption goals established by the Board of Directors.

On June 1, 2013, the NTMWD initiated Stage 3 of its March 2008 Water Conservation and Drought Contingency and Water Emergency Response Plan, which established a ten percent (10%) reduction goal from fiscal year 2011 consumption (the last fiscal year with no water restrictions).
Beginning on November 1, 2013, the NTMWD initiated limited landscape watering with sprinklers or irrigation systems to once every two weeks. Therefore, at this time, the two additional criteria that would apply for the Board to consider entities are eligible for 2013-2014 rebates as proposed in the amended rebate policy would be:

1. Achieving a ten percent (10%) water reduction goal based on fiscal year 2011 consumption levels; and,
2. Limiting landscape irrigation to once every two weeks.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors amend District Policy No. 19, Water Rebate Procedures. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

SEPTEMBER 1993
DISTRICT POLICY NO. 19
AMENDED OCTOBER 2007
AMENDED JUNE 2014

WATER REBATE PROCEDURE

The Board of Directors of the NTMWD has determined it to be in the best interest of the Member Cities and Customers to adopt a policy providing for the consideration of water rebates, on an annual basis. This policy is intended to provide a framework which would allow the Board of Directors, on an annual basis, to consider a rebate of monies paid by the Member Cities and Customers, when their demands for water did not require NTMWD to meet or exceed its annual system volume requirement, and in an amount equal to the estimated variable costs (power, chemicals, etc.) savings for treated water service that were not incurred by the NTMWD. Implementation of this policy is intended to reward water conservation and assist the Member Cities and Customers when their actions resulted in reduced water deliveries.

SECTION I. SCOPE

This policy shall apply to all Member Cities and Customers of the NTMWD. This policy shall not be applied to Member Cities or Customers establishing annual requirements by contract negotiation.

SECTION II. WATER CONSERVATION

This policy is intended to provide a financial reward in the form of a rebate to Member Cities and Customers when reduction in their water demands below their annual minimums serve to reduce the need for the NTMWD to treat and transport potable water.

SECTION III. PROCEDURE

The following provides a description and the criterion for the rebate concept and the administrative procedures required in the process:

A. The "rebate", equated to a cents per 1,000 gallons, shall be based upon the estimated per unit reduction in expenditure for variable cost incurred by the NTMWD, as determined annually by the Board of Directors.

B. To be eligible for a rebate, the Member City or Customer shall:

   i) have had water demands supplied at volumes less than its annual minimum volume requirement,

   ii) not be excluded from rebate eligibility as set forth in Section I of this policy,
iii) have adopted and implemented those water management and drought response strategies approved by the Board of Directors, and,
iv) have met the minimum applicable water consumption goals established by the Board of Directors during the most recently completed twelve (12) month fiscal year (October 1 through September 30).

The volume eligible for rebate, if authorized by the Board of Directors, would be the difference between the annual minimum as established in the Budget Resolution and the actual usage by the Member City or Customer during the most recently completed twelve (12) month water year (August 1 through July 31). Any potential rebate monies paid by a Member City or Customer that is not eligible for a rebate shall, at the discretion of the Board of Directors, either:

i) be paid as an enhanced rebate to Member Cities or Customers who have achieved water conservation goals established by the Board of Directors in excess of the minimum applicable goals, or

ii) be retained in the Water System and be used to reduce future System expenditures.

C. Each year at the October Board of Directors meeting, the Board of Directors will be provided by the NTMWD staff a list of Member Cities and Customers eligible for rebate, if any, the estimated rate of the rebate, and the total amount of funds to be considered for rebate.

After considering the financial condition of the NTMWD and the Member Cities and Customers, the Board of Directors shall consider rebating funds to eligible Member Cities and Customers.

D. Should the Board of Directors elect to provide a rebate, the NTMWD staff is directed to notify those Member Cities and Customers eligible for the rebate and provide payment within thirty (30) days of the Board’s action.

E. The Board shall follow the above-referenced procedure on an annual basis.

SECTION IV. IMPLEMENTATION

This policy shall be implemented by its adoption as of October 1, 1993.

This policy passed and approved by the Board of Directors of the North Texas Municipal Water District in a regular meeting on the 23rd day of September 1993 and amended the 25th day of October 2007 and the 26th day of June 2014.

______________________________  _______________________________
TERRY ANDERSON, SECRETARY     DARWIN WHITSID, PRESIDENT
NORTH TEXAS MUNICIPAL WATER DISTRICT

SEPTEMBER 1993

WATER REBATE PROCEDURE

The Board of Directors of the NTMWD has determined it to be in the best interest of the Member Cities and Customers to adopt a policy providing for the consideration of water rebates, on an annual basis. This policy is intended to provide a framework which would allow the Board of Directors, on an annual basis, to consider a rebate of monies paid by the cities/customers, based upon the city/customer not requiring the Member Cities and Customers, when their demands for water did not require NTMWD to meet or exceed its annual system volume requirement, and in an amount equal to the estimated variable costs (power, chemicals, etc.) savings from treated water service that were not incurred by the NTMWD. Implementation of this policy is intended to reward water conservation and assist the cities/customers—Member Cities and Customers—when their actions resulted in reduced water sales, impact the city/customer financially, deliveries.

SECTION I. SCOPE

This policy shall apply to all Member Cities and Customers of the NTMWD. This policy shall not be applied to cities/customers—Member Cities or Customers establishing annual requirements by contract negotiation.

SECTION II. WATER CONSERVATION

This policy is intended to provide a financial reward in the form of a rebate to the cities/customers—Member Cities and Customers able when reduction in their water demands below their annual minimums serve to reduce the need for the NTMWD to treat and transport potable water.

SECTION III. PROCEDURE

The following provides a description and the criterion for the rebate concept and the administrative procedures required in the process:

A. The "rebate", equated to a cents per 1,000 gallons, shall be based upon the estimated per unit reduction in expenditure for variable cost incurred by the NTMWD, as determined annually by the Board of Directors.

B. To be eligible for the rebate, the city/customer must not meet Member City or Customer requirements.
i) have had water demands supplied at volumes less than its annual minimum volume requirement,

ii) not be excluded from rebate eligibility as set forth in Section I of this policy,

iii) have adopted and implemented those water management and drought response strategies approved required to be adopted and implemented by the Board of Directors, and

iv) have met the minimum applicable water consumption goals established by the Board of Directors during the most recently completed twelve (12) month fiscal year (October 1 through September 30).

The volume eligible for rebate, if authorized by the Board of Directors, would be the difference between the annual minimum as established in the Budget Resolution and the actual usage by the Member City or Customer during the most recently completed twelve (12) month water year (August 1 through July 31). Any potential rebate monies paid by a Member City or Customer that are not eligible for a rebate shall, at the discretion of the Board of Directors, either:

i) be paid as an enhanced rebate to Member Cities or Customers who have achieved water conservation goals established by the Board of Directors in excess of the minimum applicable goals, or

ii) be retained in the Water System and shall be used to reduce future System expenditures.

C. The Board of Directors Each year at the August-October Board of Directors meeting, the Board of Directors will be provided by the NTMWD staff a list of cities/customers Member Cities and Customers eligible for rebate, if any, the estimated rate of the rebate, and the total dollars amount of funds to be considered for rebate. The item would be a "discussion" item on the August agenda.

After considering the financial condition of the NTMWD and the cities/customers Member Cities and Customers, the Board of Directors could instruct the staff to place rebates on the September agenda for consideration or accept the report as information only shall consider rebating funds to eligible Member Cities and Customers.

D. Should the Board of Directors elect to provide a rebate, the NTMWD staff is directed to notify those cities/customers Member Cities and Customers eligible for the rebate and provide payment within forty-five thirty (4530) days of the Board's action.

E. The Board shall follow the above-referenced procedure on an annual basis.
SECTION IV. IMPLEMENTATION

This policy shall be implemented by its adoption as of October 1, 1993.

This policy passed and approved by the Board of Directors of the North Texas Municipal Water District in a regular meeting on this the 23rd day of September 1993 and amended the 25th day of October 2007 and on the 26th day of June 26, 2014.

____________________  ________________________
TERRY ANDERSON, SECRETARY  DARWIN WHITESIDE, PRESIDENT

(SEAL)
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

REGIONAL SOLID WASTE SYSTEM
LOOKOUT DRIVE TRANSFER STATION
PERMIT AMENDMENT APPLICATION
PROJECT NO. SWCF 06-1 (093)

ADDITIONAL ENGINEERING SERVICES

This administrative memorandum is for the Board of Directors consideration to authorize additional engineering services with Chiang, Patel & Yerby, Inc., (CP&Y) for additional out-of-scope efforts associated with the Texas Commission on Environmental Quality (TCEQ) application for expansion of the Lookout Drive Transfer Station facility. The Board is requested to authorize an increase to the engineering services agreement with CP&Y in the not-to-exceed amount of $39,600 for a total not-to-exceed amount of $574,732 for the Lookout Drive Transfer Station Expansion, Project No. SWCF 06-1 (093).

REVIEW

Through Administrative Memorandum No. 2944, the Board authorized the Executive Director to enter into an engineering services agreement with CP&Y to prepare the TCEQ permit amendment application to relocate and expand the Lookout Drive Transfer Station. In October 2010, the Board approved Resolution No. 10-26, which authorized the Executive Director to act on behalf of the NTMWD in submitting the permit application to the TCEQ.

The permit application was deemed technically complete in December 2012. In October 2013, the TCEQ Commissioners referred the application to the State Office of Administrative Hearing (SOAH) to settle certain contested issues through a contested case hearing. With the commencement of the hearing process, CP&Y is required to make available the engineer-of-record as a professional witness, prepare pre-filed testimony, and review pre-filed testimony of other NTMWD expert witnesses. In addition, the witness provided by CP&Y will need to prepare for, attend, and provide testimony at the SOAH Public Hearing scheduled to begin July 14, 2014.

ENGINEERING SERVICES FEE

CP&Y prepared a request for additional fees to perform these tasks. The amount requested, $39,600, is based on the estimated effort required for this work. The amount is based on an hourly fee basis and will not be exceeded without prior authorization from NTMWD. NTMWD staff has reviewed the addendum request and believes the cost submitted for the additional work is fair and reasonable.
FUNDING

Additional funding in the amount of $39,600 is available in the Regional Solid Waste System 2009 Construction Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize an increase to the engineering services agreement with Chiang, Patel, & Yerby, Inc., in the amount of $39,600 for a total not-to-exceed amount of $574,732 for the Lookout Drive Transfer Station Expansion, Project No. SWCF 06-1 (093). This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4207

REGIONAL WATER SYSTEM
ELECTRICAL IMPROVEMENTS AT
HIGH SERVICE PUMP STATION 1-1
PROJECT NO. 202

CHANGE ORDER NO. 1

This administrative memorandum is for the Board of Directors consideration of Change Order No. 1 for an increase of $11,581.80 resulting in a revised contract amount of $3,548,581.80 for Project No. 202, Electrical Improvements at High Service Pump Station (HSPS) 1-1 (Project No. 202).

REVIEW

In January 2010, the Board of Directors approved Administrative Memorandum No. 3436 authorizing an engineering services agreement with McCreary and Associates, Inc., (MAI) for the design of Project No. 202.

In September 2013, the Board of Directors approved Administrative Memorandum No. 4048 authorizing the award of a construction contract to Crescent Constructors, Inc., in the contract amount of $3,537,000 for Project No. 202.

PROPOSED CHANGE ORDER NO. 1

Proposed Change Order No. 1 consists of two items that impact the scope of work for Project No. 202.

Item No. 1 – Delete Pump Discharge Valves and Valve Actuators ($17,294.20)

- **Issue:** New discharge valves and actuators are to be provided on the eight pumps in HSPS 1-1. Four of the valves are installed in pipe that was found to be deteriorated to the extent that replacement of the valve alone is not possible without replacing the majority of the existing pump discharge piping.

- **Recommendation:** Delete the four valves and valve actuators from this contract and modify the existing valve actuators to operate correctly with the new motor starter controls. The four valves and actuators will be replaced under a future pump and discharge piping improvements project.

- **Proposed Cost:** The contractor has submitted a proposal to delete the four valves and valve actuators and modify the existing valve actuators for a total credit amount of $17,294.20
Item No. 2 – Replace Existing Telephone Cable

- **Issue:** The existing direct buried 100-pair telephone cable serving the Operations Building has deteriorated and no longer provides reliable service.

- **Recommendation:** Replace the 100-pair telephone cable with 520 feet of new 100-pair telephone cable routed in new four-inch conduit from the main telephone service panel south of the building to the telephone service board in the control room.

- **Proposed Cost:** The contractor has submitted a proposal to furnish and install the additional recommended work for the total amount of $28,876.

The issues associated with Change Order No. 1 result in an overall increase of $11,581.80 to the contract amount. The proposed costs have been reviewed and are recommended by both NTMWD staff and MAI as appropriate for the time and effort required.

**SUMMARY OF CHANGE ORDER NO. 1**

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<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Delete Pump Discharge Valves and Valve Actuators</td>
<td>($17,294.20)</td>
</tr>
<tr>
<td>2</td>
<td>Replace Existing Telephone Cable</td>
<td>28,876.00</td>
</tr>
<tr>
<td>Total</td>
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<td>$11,581.80</td>
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**SUMMARY OF ADJUSTMENTS TO CONTRACT**

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<th>Description</th>
<th>Contract Amount</th>
<th>Days to Substantial Completion</th>
<th>Days to Final Completion</th>
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<td>Original Contract</td>
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<td>465</td>
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<td>Proposed C.O. No. 1</td>
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<tr>
<td>Revised Contract</td>
<td>$3,548,581.80</td>
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<td>465</td>
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<td>February 14, 2015</td>
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**FUNDING**

Additional funding in the amount of $11,581.80 for Change Order No. 1 is available in the Regional Water System 2009D Construction Fund.
RECOMMENDATION

It is the recommendation of the Executive Director, NTMWD staff, and McCreary and Associates, Inc., that the Board of Directors authorize Change Order No. 1 for an increase of $11,581.80, resulting in a revised contract amount of $3,548,581.80, for the Electrical Improvements at High Service Pump Station 1-1, Project No. 202. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4208

REGIONAL WATER SYSTEM
WATER TREATMENT PLANTS I, II, III, AND IV OZONATION
PROJECT NO. 153

LEGAL SERVICES

This administrative memorandum requests that the Board of Directors authorize additional funding in the not-to-exceed amount of $50,000 for legal services with Saunders, Walsh & Beard, Attorneys & Counselors, (Saunders, Walsh & Beard) for review and evaluation of information submitted by McCarthy Building Companies, Inc., (McCarthy) in support of its claim for adjustment on Project No. 153, Water Treatment Plants I, II, III, and IV Ozonation (Project No. 153).

REVIEW

During the November 2013 Water Committee meeting, NTMWD Executive Director and legal counsel informed the Water Committee of a sizable claim for delay submitted by McCarthy on Project No. 153. Since that time, two sets of meetings have been ongoing regarding the claim negotiation. The Executive Director has met with McCarthy's regional manager in an effort to maintain open lines of communication, and NTMWD staff has met with McCarthy field personnel in an attempt to discuss individual items and specifics of the submitted claim. During these meetings, it has become apparent that the claim submitted by McCarthy is complicated. Although time and effort has been expended by the Executive Director and NTMWD staff in review of the information submitted by McCarthy, the complexity of the issues involved with the claim have precluded development of a recommendation for a proposed settlement.

Therefore, in order to perform a thorough review of the total claim of approximately $10 million, the Executive Director directed Saunders, Walsh & Beard to hire a construction claims specialist to provide professional assistance for review and evaluation of information submitted by McCarthy in support of their claim. In April 2014, the Board approved Administrative Memorandum No. 4179 ratifying the action of the Executive Director to authorize Saunders, Walsh & Beard to contract with a construction claims specialist in the not-to-exceed amount of $25,000. The scope of services with the construction claims specialist included: 1) review of the contract documents; 2) review of the project work schedule as submitted by McCarthy; 3) review of documents related to the claim; and, 4) consultation with NTMWD's legal counsel regarding recommended actions.

As stated in Administrative Memorandum No. 4179, additional services beyond that already authorized will be presented to the Board for separate approval. The construction claims specialist has reviewed monthly schedules submitted by McCarthy over the 42 months that this project has been underway. Each schedule is very detailed and has over 6,000 construction activities. Also, the claims specialist has reviewed over 1,000 daily construction reports prepared by NTMWD. Finally, all of the change orders
and change order documents have been reviewed or are currently under review. Additional funding is requested for Saunders, Walsh, & Beard and the claims specialist to review McCarthy's most recent information submittal supporting their claim. The Executive Director will keep the Board updated on the progress of activities associated with McCarthy's claim.

FUNDING

Funding in an amount not-to-exceed $50,000 for this project is available in the Regional Water System Capital Improvement Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize additional funding in the not-to-exceed amount of $50,000 for legal services with Saunders, Walsh & Beard, Attorneys & Counselors, for review and evaluation of information submitted by McCarthy Building Companies, Inc., in support of its claim for adjustment on Project No. 153, Water Treatment Plants I, II, III, and IV Ozonation. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4209

REGIONAL WATER SYSTEM
WATER TREATMENT PLANTS I, II, III, AND IV OZONATION
PROJECT NO. 153

CHANGE ORDER NO. 27

This administrative memorandum is for the Board of Directors consideration of Change Order No. 27 for Project No. 153, Water Treatment Plants (WTPs) I, II, III, and IV Ozonation (Project No. 153). The recommended changes will result in an increase of $25,988.91, resulting in a revised contract amount of $111,050,812.54. The interim milestone substantial completion dates and final completion date for this project will remain unchanged.

REVIEW

The use of ozone to supplement the treatment process has been discussed with the Board on several occasions. Ozone is an oxidation process that has several potential advantages including:

- Disinfection
- Disinfection byproduct control (THMs, HAA5, etc.)
- Micro-constituent oxidation
- Micro-floculation to reduce chemical usage
- Taste and odor control

In May 2009, the Board approved Administrative Memorandum No. 3346, which authorized the Executive Director to enter into an Engineering Services Agreement with Black & Veatch Corporation (B&V) for design of Project No. 153 in the amount of $10,620,000. Since March 2011, the Board has authorized additional engineering services with B&V in the amount of $383,419, resulting in a total engineering services fee of $11,003,419.

In October 2010, the Board approved Administrative Memorandum No. 3547-A, awarding a construction contract to McCarthy Building Companies for construction of Project No. 153 in the amount of $112,989,000. Since August 2011, the Board has approved 26 change orders totaling $3,035,823.63 in additional costs. Due to elimination of a $5,000,000 allowance included in the original bid (approved by the Board with Change Order No. 19 in July 2013), the total contract amount after approval of Change Order No. 26 is $111,024,823.63. Detailed information on all change orders can be found in Administrative Memorandum No. 4180, which was approved by the Board in April 2014, and can also be provided upon request.
CHANGE ORDER NO. 27

Change Order No. 27 consists of six items that impact the work scope and cost for Project No. 153. NTMWD staff is in discussions with B&V regarding their potential participation on Item Nos. 2, 4, 5, and 6.

Item No. 1 – Temporary Power for WTP II Sedimentation Basin No. 2 Plate Settlers

- **Issue:** Permanent power for WTP II Sedimentation Basin No. 2 plate settlers is shown in the contract drawings to be supplied from the South Ozone Operations Building (SOPS). The contract documents require completion of the plate settlers prior to completion of SOPS; therefore, SOPS was not ready nor could it have been ready for permanent power when McCarthy was required to have the plate settlers for Basin No. 2 available for service.

- **Recommendation:** Supply temporary power to the Basin No. 2 plate settlers and use an electric power submeter to meter the temporary electric power to the Basin No. 2 plate settlers. Record the number of kilowatt-hours used by the plate settlers prior to the installation of permanent power.

- **Proposed Cost:** McCarthy has submitted a cost proposal in the amount of $5,420.54 for the installation of temporary power circuits to power the Basin No. 2 plate settlers, plus the cost of the actual power used by the plate settlers. The actual power consumed by the plate settlers in the fourteen month period was 6,477 kilowatt-hours.

Item No. 2 – WTP IV Stairs Extension

- **Issue:** A conflict exists between the location of two chlorine gas lines and the proposed stairs at the east end of WTP IV Sedimentation Basin Nos. 1 and 4. The stairs need to be installed three feet from the sedimentation basins to avoid the conflict with the chlorine gas lines.

- **Recommendation:** Direct the contractor to provide a cost proposal to bridge the offset between the sedimentation basin walkway and stairs landing with a steel plate. Anchor the bridging to the sedimentation basin on one side and weld the steel plate to the stairs landing on the other side.

- **Proposed Cost:** McCarthy has submitted a cost proposal in the amount of $7,122.19 for the additional cost of extending two stairs landings to the sedimentation basin. McCarthy's cost proposal also includes a credit for not having to relocate a portion of the ductile iron plant water pipe, which was no longer required once the stairs were moved.
Item No. 3 – WTP I Clarifloculator No. 2 Floor to Wall Joint Repair

- **Issue:** NTMWD noticed excessive groundwater at several locations in WTP I, and the initial assessment of the cause of the excess groundwater indicated that there was a leak in Clarifloculator No. 2. The floor to wall joint in Clarifloculator No. 2 previously had been repaired by McCarthy as part of Change Order No. 2. In the repair of the floor to wall joint, McCarthy used a rubber sheet that is epoxied to both the existing concrete wall and floor to make a watertight seal. The clarifloculator was drained and NTMWD, McCarthy, and the manufacturer’s representative inspected McCarthy’s repair. The inspection revealed that the repair was in good condition but there were several locations where the lap joints of the rubber sheet had failed. These joints will be repaired by McCarthy at McCarthy’s cost. The inspection also revealed that there were four places where the grout floor failed where the rubber sheet was epoxied to the floor. These areas are to be repaired by McCarthy at NTMWD’s cost.

- **Recommendation:** Have McCarthy repair all areas that need repair. The areas of failed grout will be cleaned down to sound grout and a fresh layer of epoxy applied. McCarthy will remove the rubber sheets where the grout failed and attach new sheets to make one continuous repair sheet.

- **Proposed Cost:** McCarthy has submitted a cost proposal in the amount of $3,364.16 for repairing the rubber sheets where the grout floor failed.

Item No. 4 – Compressed Air Low Pressure Alarm at NOPS and SOPS

- **Issue:** NTMWD was operating the south portion of the North Ozone Operations Building (NOPS) when a power failure occurred and shut down all of the equipment in the NOPS. After the power failure cleared, NTMWD attempted to start the ozone generators and associated equipment but the equipment failed to start. The compressed air system that operates many of the valves in the ozone system lost pressure and did not have enough air supply to open the valves.

- **Recommendation:** Direct McCarthy to change the compressed air packaged units to provide a separate low pressure alarm with supervisory control and data acquisition (SCADA) indication. There are four compressed air packages that need additional microprocessor hardware, programming, and wire to provide compressed air low pressure alarms to SCADA.

- **Proposed Cost:** McCarthy has submitted a cost proposal in the amount of $6,944.19 for this additional work.

Item No. 5 – Fireman’s Switches Additional Wiring

- **Issue:** During one of the fire inspections of NOPS, the City of Wylie fire marshal noticed that the uninterruptible power supplies continued to provide power to certain receptacles and devices even after the fireman’s switch shut off the
power to the building. The purpose of the fireman's switch is to provide the fire department one location where all of the power in the building can be disconnected. Fireman's switches have been supplied at NOPS, SOPS, and all six ozone contactor buildings for this purpose. The fire marshal notified NTMWD that fireman's switches will have to disconnect power from the uninterruptible power supplies as well as the power being supplied to the building.

- **Recommendation:** Direct the contractor to provide the necessary wiring to disconnect the power supplied by the uninterruptible power supplies in the existing fireman’s switches at NOPS, SOPS, and all six ozone contactor buildings.

- **Proposed Cost:** McCarthy has submitted a cost proposal in the amount of $2,505.40 for additional wire and terminations from the fireman’s switches to the uninterruptible power supplies at NOPS, SOPS, and each contactor building.

**Item No. 6 – Back Pressure Sustaining Valves**

- **Issue:** The contract drawings show the contractor to provide pressure reducing valves to the quenching chemical system in three locations. In order to maintain a constant pressure on the quenching chemical transfer pumps, back pressure sustaining valves are needed in lieu of the pressure reducing valves.

- **Recommendation:** Direct the contractor to supply back pressure sustaining valves in the three areas where pressure reducing valves are shown.

- **Proposed Cost:** McCarthy has submitted a cost proposal in the amount of $632.43 as the difference in material cost for the back pressure sustaining valves in lieu of pressure relief valves.

**SUMMARY OF CHANGE ORDER NO. 27**

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<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
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### SUMMARY OF ADJUSTMENTS TO CONTRACT

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CURRENT STATUS OF NEGOTIATIONS WITH MCCARTHY

During the November 2013 Water Committee Meeting, NTMWD Executive Director and legal counsel informed the Water Committee of a sizable claim for delay submitted by McCarthy. Since that time, two sets of meetings have been ongoing regarding the claim negotiation: 1) the Executive Director has met with McCarthy’s regional manager in an effort to maintain open lines of communication; and, 2) NTMWD staff has met with McCarthy field personnel in an attempt to discuss individual items and specifics of the submitted claim. During these meetings, it has become apparent that the claim submitted by McCarthy is extremely involved. Although time and effort has been expended by the Executive Director and NTMWD staff in review of the information submitted by McCarthy, the complexity of the issues involved with the claim has precluded development of a recommendation for a proposed settlement. In order to provide professional assistance for review and evaluation of information submitted by McCarthy in support of its claim, Administrative Memorandum No. 4179 approved by the Board in April 2014 ratified the actions of the Executive Director to authorize Saunders, Walsh & Beard to contract with a claims specialist. Saunders, Walsh & Beard has retained a claims and scheduling specialist, and they are in the process of evaluating McCarthy’s claim.

FUNDING

Additional funding in the amount of $25,988.91 for this change order is available in the Regional Water System 2010A Construction Fund.

RECOMMENDATION

It is the recommendation of the Executive Director, NTMWD staff, and Black & Veatch Corporation that the Board of Directors approve Change Order No. 27 for Project No. 153, Water Treatment Plants I, II, III, and IV Ozonation, an increase in the amount of $25,988.91, resulting in a revised contract amount of $111,050,812.54. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

REGIONAL WATER SYSTEM
LAKE TAWAKONI WATER TREATMENT PLANT
SLUDGE LAGOON IMPROVEMENTS
PROJECT NO. 312

CHANGE ORDER NO. 1

This administrative memorandum is for the Board of Directors consideration of Change Order No. 1 for: 1) an increase of $44,020.34, resulting in a revised contract amount of $3,507,020.34; and, 2) an additional 45 days of contract time resulting in revised substantial and final completion dates of October 13, 2014, and November 12, 2014, respectively, for Project No. 312, Lake Tawakoni Water Treatment Plant (WTP) Sludge Lagoon Improvements (Project No. 312).

REVIEW

In January 2013, the Board approved Administrative Memorandum No. 3921 authorizing the Executive Director to execute an engineering services agreement with Black & Veatch Corporation for final design of Project No. 312.

In December 2013, the Board approved Administrative Memorandum No. 4106 authorizing the award of a construction contract to Crescent Constructors, Inc., for Project No. 312.

PROPOSED CHANGE ORDER NO. 1

Proposed Change Order No. 1 consists of one item that impacts the scope of work, cost, and contract time for this project.

Item No. 1 – Relocate Existing Fiber Optic Cable

$44,020.34
45 Calendar Days

- **Issue:** A direct-buried fiber optic cable that transmits data between the Lake Tawakoni Water Treatment Plant Control Room and the Intermediate Pump Station was found to interfere with construction of this project. The contractor encountered the cable, damaging it in the process. The damaged cable has been repaired by the contractor. Since the cable needs to be relocated in order to eliminate the conflict with the current construction, the overall design of the cable installation was reviewed. The recommendation developed from that review is to install the cable on power poles consistent with current design philosophy, resulting in an installation that provides the greatest access for maintenance and the highest degree of protection against damage in the future.
• **Recommendation:** Install a new fiber optic cable in conduit from the control room to the utility poles, install new aerial fiber optic cable on 12 utility poles and install new fiber optic cable in conduit from the last utility pole to the intermediate pump station. Approximately 3,000 feet of fiber optic cable is proposed to be installed with 2,000 feet to be installed on utility poles and 1,000 feet to be installed in underground conduit.

• **Proposed Cost:** The contractor has requested an additional $44,020.34 and 45 calendar days to install the recommended work.

### SUMMARY OF ADJUSTMENTS TO CONTRACT

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### FUNDING

Additional funding in the amount of $44,020.34 for Change Order No. 1 is available in the Regional Water System 2012 Construction Fund.

### RECOMMENDATION

It is the recommendation of the Executive Director, NTMWD staff, and Black and Veatch Corporation that the Board of Directors approve Change Order No. 1 for: 1) an increase of $44,020.34, resulting in a revised contract amount of $3,507,020.34; and, 2) an additional 45 days of contract time resulting in revised substantial and final completion dates of October 13, 2014, and November 12, 2014, respectively, for Project No. 312, Lake Tawakoni Water Treatment Plant Sludge Lagoon Improvements. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4211

REGIONAL WASTEWATER SYSTEM
WILSON CREEK REGIONAL WASTEWATER TREATMENT PLANT
PLANT II ODOR CONTROL IMPROVEMENTS
PROJECT NO. 349

TABULATION OF BIDS AND AWARD OF CONTRACT

This administrative memorandum is for the Board of Directors consideration of a tabulation of bids and recommendation to award a construction contract to Archer Western Construction, LLC, (AWC) in the contract amount of $656,700 for the Wilson Creek Regional Wastewater Treatment Plant (RWWTP), Plant II Odor Control Improvements, Project No. 349.

REVIEW

The Wilson Creek RWWTP was initially placed into service in 1987 as an eight million gallon per day (MGD) activated sludge treatment facility. The plant has undergone four subsequent major expansions and process upgrades to achieve the current average annual daily flow capacity of 56 MGD; 32 MGD in Plant I and 24 MGD in Plant II.

Plant II, originally built in 2003, has two primary clarifiers that are fully covered and equipped with air ducts and fans to remove the foul air from the air space under the cover. The foul air is currently ducted to the intake for the aeration blowers and is incorporated into the process air for the aeration basins. This approach of using foul air from the primary process to supplement the aeration basin supply air was, in general, used in 2003 because it is effective in removing significant odorous compounds from the air without the need for supplemental odor treatment.

Over the years, wastewater operations has experienced more frequent maintenance and parts replacement and shorter lifespan for the blowers that handle the foul air than for comparable blowers that do not utilize the foul air. Replacement parts and/or blowers that utilize the foul air also require specialized corrosion-resistant coatings that add cost and delivery time to the procurement process. The use of foul air also requires additional electrical design considerations in areas around air piping where leakage is possible. In 2012, NTMWD commissioned a study by Alan Plummer Associates, Inc., to evaluate the issues surrounding the use of foul air for supplemental aeration capacity at NTMWD facilities. The study recommended discontinuing the use of foul air to supplement aeration due to its increasing effect on blower seals and bearings and fouling of diffusers. In order to discontinue using foul air in the aeration process, it is necessary to install odor control equipment and related ductwork to treat the air prior to releasing it into the atmosphere.
In January 2014, the Board approved Administrative Memorandum No. 4110 authorizing an engineering services agreement with Perkins Engineering Consultants, Inc., (PECI) for design and construction phase services to install odor control equipment and related ductwork for the Plant II primary clarifier foul air.

TABULATION OF CONSTRUCTION BIDS

Sealed bids were received at 10:00 a.m. on Thursday, June 5, 2014, and are tabulated as follows:

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<th>Bidder</th>
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<tr>
<td>Associated Construction Partners, LTD</td>
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<tr>
<td>Felix Construction Company</td>
<td>$880,748</td>
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The engineer's Opinion of Probable Construction Cost for the project was $800,000.

The lowest responsive bid was received from AWC in the total amount of $656,700. AWC has completed numerous projects for NTMWD, including the recent Wilson Creek RWWT Expansion and Advanced Treatment Improvements project and installation of two bioscrubbers and all associated ductwork for the Wilson Creek Plant I primary clarifiers.

Based on AWC's previous successful completion of many similar projects for NTMWD, and their standing as the lowest responsive bidder, the NTMWD staff and PECI recommend that they be awarded the construction contract.

FUNDING

Funding for this project in the amount of $656,700 is available in the Regional Wastewater System 2013 Construction Fund.

RECOMMENDATION

It is the recommendation of the Executive Director, NTMWD staff and Perkins Engineering Consultants that the Board of Directors authorize award of the construction contract in the amount of $656,700 to Archer Western Construction, LLC, for the Wilson Creek Regional Wastewater Treatment Plant, Plant II Odor Control Improvements, Project No. 349. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4212

UPPER EAST FORK INTERCEPTOR SYSTEM
PRESTON ROAD LIFT STATION, PRAIRIE CREEK LIFT STATION AND
BECK BRANCH LIFT STATION
EMERGENCY GENERATORS
PROJECT NO. 361

ENGINEERING SERVICES AGREEMENT

This administrative memorandum requests the Board of Directors authorize an engineering services agreement (ESA) with Gupta and Associates, Inc., (GAI) for design and construction phase services for the Preston Road Lift Station, Prairie Creek Lift Station and Beck Branch Lift Station Emergency Generators, Project No. 361. The ESA would be in accordance with the standard NTMWD agreement in a not-to-exceed amount of $210,772.

REVIEW

A key element in the NTMWD’s ongoing effort to minimize sanitary sewer overflows (SSOs) within the Upper East Fork Interceptor System (UEFIS) is reliable power at all lift station sites. Emergency diesel-powered generators have been added as backup power protection at many lift stations in the UEFIS in recent years as a part of other scheduled improvement projects at those sites. NTMWD staff recommends that the installation of emergency generators at the remaining sites be continued with the advancement of three specific projects at this time.

The Preston Road, Prairie Creek, and Beck Branch lift stations are important junctures in the UEFIS where a loss of power could result in disruption of operations. These three sites are closely matched in terms of electrical loading and are anticipated to require generators and automatic transfer switches of approximately the same size. Combining these like-sized generators under one project is expected to save effort and expense in specifying the units and will likely result in favorable manufacturer and contractor per-unit pricing.

DESCRIPTION OF PROJECT

This project will include the following improvements to add emergency generators to the existing Preston Road, Prairie Creek, and Beck Branch lift stations:

- Provide a new automatic transfer switch connected to the power utility feeder circuit and to the generator feeder circuit to provide automatic transfer to the generator in the event of a power failure.

- Provide a new engine generator with sound enclosure and integral fuel tank.
• Provide a new slab-on-grade to support the generator and fuel tank along with an access platform and interconnecting underground electrical duct bank and circuits to interconnect both power conductors and control conductors.

• Modify each lift station programmable logic controller (PLC) to accept the additional generator and automatic transfer switch signals and transmit the signals to the Wilson Creek Regional Wastewater Treatment Plant control room.

The project will include the following special services:

• Power system studies for short-circuit protective device coordination and the determination of arc flash hazard levels.

• Geotechnical investigation for a new generator equipment pad and site surveying, as required.

The initial engineer’s estimate for construction of the anticipated improvements at all three lift stations is $2,540,000.

ENGINEERING SERVICES FEE

GAI has proposed to perform the basic engineering services in the not-to-exceed amount of $157,172 and special services for a power system study, geotechnical, and surveying in the not-to-exceed amount of $53,600. The total not-to-exceed amount for basic and special services being requested is $210,772. The NTMWD staff has reviewed the engineering fees submitted by GAI and believes them to be within the guidelines of the Consulting Engineers Council for this type of work and representative of the effort associated with this project. The proposed engineering services would be performed in accordance with the standard ESA.

FUNDING

Funding for this project in the amount of $210,772 is available in the Upper East Fork Interceptor System Capital Improvement Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize an engineering services agreement with Gupta and Associates, Inc., for design and construction phase services for the Preston Road Lift Station, Prairie Creek Lift Station, and Beck Branch Lift Station Emergency Generators, Project No. 361, in the not-to-exceed amount of $210,772. This will be an item on the regular agenda of the June 2014 Board meeting.
This administrative memorandum is for the Board of Directors consideration of a tabulation of bids and recommendation to award a construction contract for the High Service Pump Station (HSPS) 2-2 and 2-3 Mechanical Improvements, Project No. 261, to Garney Companies, Inc., (Garney), the lowest responsive bidder, in the amount of $4,506,127.

REVIEW

HSPS 2-2 was constructed in 1980 with six pumps. The pump station was expanded in 1987 with the addition of HSPS 2-3, which consists of eight additional pumps. The pump stations are supplied by three 84-inch suction pipes and discharge into 60-inch, 72-inch, and 78-inch transmission lines that deliver water to north Garland, Richardson, Plano, Allen, Frisco, and McKinney, as well as several customer cities. There are numerous butterfly valves, gate valves, check valves, and fittings on both the suction and discharge piping in the pump stations.

HSPS 2-2 and 2-3 are the most heavily used pump stations on the water treatment plant site and have the capability of pumping in excess of 400 million gallons per day (MGD). The pump stations were evaluated as part of the Water Transmission System Maintenance Study and Risk Assessment, Project No. 179, conducted by Freese and Nichols, Inc. One of the projects identified in the risk assessment was to improve the mechanical equipment in these pump stations. Freese and Nichols’ recommendations for mechanical improvements in HSPS 2-2 and 2-3 were incorporated into this project.

In August 2011, the Board approved Administrative Memorandum No. 3677 authorizing MWH Americas, Inc., (MWH) to perform preliminary engineering services associated with Project No. 261 in the not-to-exceed amount of $162,372.

In November 2012, the Board approved Administrative Memorandum No. 3855 authorizing the Executive Director to execute an engineering services agreement with MWH for final design of the project.

TABULATION OF CONSTRUCTION BIDS

The project generally consists of improvements to various mechanical and structural components within HSPS 2-2 and 2-3, such as the following:

- Carbon fiber repairs of 24-inch and 36-inch diameter steel pump discharge piping
- Replacement of 24-inch to 54-inch butterfly valves and 30-inch to 36-inch check valves
- Replacement of 60-inch, 72-inch, and 78-inch yard valves
- Replacement of 84-inch slide gates
- Surface preparation and painting of pipe gallery, pumps and structural elements

Sealed bids were received at 2:00 p.m. on Wednesday, June 4, 2014, and are tabulated as follows:

<table>
<thead>
<tr>
<th>Bidder</th>
<th>Base Bid</th>
<th>Base Bid and Alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garney Companies, Inc.</td>
<td>$3,058,000</td>
<td>$4,506,127</td>
</tr>
<tr>
<td>Archer Western Construction, LLC</td>
<td>$4,471,000</td>
<td>$5,823,950</td>
</tr>
</tbody>
</table>

**ALTERNATIVE BID ITEMS**

Condition assessment of certain equipment and appurtenances that are part of this work cannot reasonably be performed while the pump station is in service. Because this pump station cannot easily be removed from service, it is necessary that some of the assessment and determination for repair or replacement be made during the construction phase when portions of the station are out of service. The bid is structured with alternatives that include work that may or may not be required, depending on the results of the condition assessment.

Alternative bid items include repair of pump discharge piping, crack sealing for the concrete walls, and the replacement of isolation valves in the suction levels of HSPS 2-2 and 2-3. The total bid amount of $4,506,127 includes the alternative bid item cost. If, through the condition assessment, it is determined that the repair or replacement of individual alternative items should not or cannot be performed, that work would be deleted from the contract scope and contract price be reduced by the amount(s) established in the bid form for the alternative item(s) in question.

**LOW BID EVALUATION**

The engineer's opinion of probable construction cost was the range of $4,500,000 to $5,500,000. The lowest responsive bid was received from Garney Companies, Inc., (Garney) in the total amount of $4,506,127 for the base bid plus additive alternates. This total amount bid is on the low end of the engineer's opinion of probable cost and is very favorable for a project that includes extremely difficult tasks. It is recommended that all alternatives be included in the award of the project and later determinations be made following condition assessments on whether individual alternative bid items should be removed from the scope of work.

Garney has recently performed as Construction Manager at Risk (CMAR) for NTMWD on Project No. 268, Lake Texoma Outfall to Wylie Water Treatment Plant Raw Water Pipeline. In 2007, Garney successfully completed the east pipeline segment of the Lake
Tawakoni Water Transmission Facilities, Project No. WCF 05-10 (032). Additionally, they have completed the following projects:

- Water District No. 1 of Johnson County, KS Facility 3 (Phase V) Water Treatment Plant
- City of Topeka, KS South Kansas River Pump Station Rehabilitation
- Colorado River Municipal Water District (CRMWD) (Texas) Ward County Water Supply Expansion Project Pump Stations
- Johnson County Wastewater Blue River Wastewater Treatment Plant – 2 Phases
- City of Wichita, KS Mid-Continent Water Quality Reclamation Facility
- City of Midlothian, TX Water Treatment Plant No. 2, Phase II
- City of St. Joseph, MO Disinfection Facilities and Effluent Pump Station
- City of Midwest City, OK Pollution Control Facility Improvements

Based on NTMWD’s experience with Garney as the CMAR on the Lake Texoma Outfall to Wylie Water Treatment Plant Raw Water Pipeline, as well as their statement of qualifications, the Executive Director, NTMWD staff, and MWH recommend that the Board of Directors authorize the award of a construction contract for Project No. 261 in the amount of $4,506,127 for the base bid and additive alternates.

**FUNDING**

Funding in the amount of $4,506,127 for this project is to be provided from proceeds from the issuance of North Texas Municipal Water District Water System Revenue Refunding and Improvement Bonds, Series 2014.

**RECOMMENDATION**

It is the recommendation of the Executive Director, NTMWD staff, and MWH Americas, Inc., that the Board of Directors authorize a construction contract to Garney Companies, Inc., for the High Service Pump Station 2-2 and 2-3 Mechanical Improvements, Project No. 261, in the amount of $4,506,127. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014  ADMINISTRATIVE MEMORANDUM NO. 4214

REGIONAL WATER SYSTEM
LEGAL SERVICES FOR LOWER BOIS D'ARC CREEK RESERVOIR
POWER SUPPLY
PROJECT NO. 362

This administrative memorandum requests that the Board of Directors authorize funding in the not-to-exceed amount of $50,000 for legal services with Lloyd, Gosselink, Rochelle & Townsend, P.C., (Lloyd Gosselink) associated with obtaining electric power for the Lower Bois d'Arc Creek Reservoir (LBCR) Raw Water Pump Station and the Leonard Water Treatment Plant, Project No. 362.

BACKGROUND

The Board has approved several actions authorizing numerous activities relating to the LBCR program, including feasibility studies, permit applications, legal services, environmental services, engineering services, and property acquisition.

In November 2013, the Board approved Administrative Memorandum No. 4091 authorizing preliminary engineering services for the dam design by Freese and Nichols, Inc., (FNI), Project No. 344. This preliminary design of the dam is proceeding at this time.

In April 2014, the Board approved Administrative Memorandum No. 4183 authorizing engineering services with FNI for the LBCR Intake and Pump Station Configuration and Siting Engineering, Project No. 358. Following closely to the dam design, the purpose of Project No. 358 is to assure the intake tower and raw water pump station configuration are properly coordinated with the dam alignment. The raw water pump station and initial 3,000 linear feet of discharge pipe need to be located or sited as soon as possible to assure proper coordination between the location of the raw water pump station, discharge pipe, dam, and spillway. In order to complete siting of the raw water pump station and discharge pipe, FNI will need to site alternatives for the electric power supply line and substation.

The electric power supplier in the area of the raw water pump station and the Leonard Water Treatment Plant is Fannin County Electric Cooperative (FCEC). NTMWD has had several meetings with representatives of FCEC to start contract negotiations to bring power to both sites. FCEC will have to file a request to obtain a Certificate of Convenience and Necessity (CCN) from the Public Utility Commission of Texas before constructing the power lines to these two sites. Similar experiences indicate that this process can involve several years of work and processing.
PROPOSED LEGAL SERVICES

The NTMWD has received a proposal in the not-to-exceed amount of $50,000 from Lloyd Gosselink for legal assistance during the contract negotiations with FCEC. Upon completion of the draft contract for electric power, it will be presented to the Board for consideration. During FCEC's efforts to acquire the CCN, it is anticipated there will be times when NTMWD's legal counsel will provide assistance to FCEC's legal counsel.

The total cost for legal services associated with the FCEC's contract negotiations and assistance for their CCN hearing cannot be determined at this time due to uncertainty surrounding possible changing regulations or the amount of information and analysis to be requested by the Public Utility Commission of Texas during the application and review period. NTMWD staff has attempted to estimate a reasonable level of legal services required for the next 24 months, which is the basis for this current request. It is anticipated that a request for authorization of additional legal services will be presented to the Board for consideration at a later time as the total level of legal assistance is further defined. The NTMWD staff believes the requested authorization is a reasonable allowance based on the nature and extent of the legal services to be performed.

FUNDING

Funding in the amount of $50,000 for Project No. 362 is available in the Regional Water System Capital Improvement Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors approve funding in the amount of $50,000 for Lloyd, Gosselink, Rochelle & Townsend, P.C., to provide legal services associated with obtaining electric power for the Lower Bois d'Arc Creek Reservoir Raw Water Pump Station and the Leonard Water Treatment Plant, Project No. 362, in the not-to-exceed amount of $50,000. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4215

REGIONAL SOLID WASTE SYSTEM
121 REGIONAL DISPOSAL FACILITY
2014 PHASE 3 LANDFILL GAS SYSTEM EXPANSION
PROJECT NO. ENG 14-2

TABULATION OF BIDS AND AWARD OF CONTRACT

This administrative memorandum is for the Board of Directors consideration of a tabulation of bids and recommendation of award of a construction contract to Tri Con Works, L.P., (Tri Con) in the contract amount of $175,351.50 for the 121 Regional Disposal Facility 2014 Phase 3 Landfill Gas System Expansion, Project No. ENG 14-2.

REVIEW

Landfill gas (LFG) is a natural byproduct of solid waste resulting from chemical reactions and microbes acting upon the waste as the materials begin to break down in the landfill. LFG is approximately 40% to 60% methane, with the remainder being carbon dioxide and up to 5% trace elements. The constant production of gas within the landfill creates pressure that forces odorous gas into the atmosphere if not controlled.

Under the Federal Clean Air Act, landfills that have the potential to emit certain constituents greater than certain respective thresholds must comply with the Federal New Source Performance Standards (NSPS) by installing an LFG collection and control system to manage the potential for release of these constituents. The 121 RDF is a NSPS site. An additional benefit to the gas collection system is the management of odors from the landfill.

To initially comply with NSPS, in December 2011, Phase 1 of the 121 RDF LFG System was completed, consisting of 42 vertical gas extraction wells, piping, and a flare facility. The wells and piping collect and convey the gas to the flare facility where the gas is flared and the potential odor from the gas is eliminated.

After the initial installation, the facility is required to install LFG extraction wells in areas where the waste in place is five years old, or within two years after final grades are achieved. Therefore, in December 2012, Phase 2 of the 121 RDF LFG System was completed, increasing the capacity of the system with five additional gas extraction wells, condensate collection sumps, isolation valves, and related LFG piping.

This fall marks the five-year anniversary for waste in place at Sectors 3A-A and 3A-B; therefore, additional LFG extraction wells are required in that part of the landfill (Phase 3). During FY 2015, additional LFG extraction wells will need to be installed in Sector 3B, which is included in the proposed FY 2015 budget. After that, several
additional years will pass before LFG extraction wells will need to be installed in Sector 3C where current filling activities are occurring.

To address the required Phase 3 collection system, in February 2014, an engineering services agreement was executed with Weaver Boos Consultants, LLC-Southwest, (Weaver Boos) for professional services associated with design of the 2014 Phase 3 LFG System Expansion, Project No. ENG 14-2. This project is funded from the Solid Waste System Operating Budget.

SCOPE OF PROJECT

This project includes the installation of seven LFG extraction wells, LFG piping, isolation valves, and appurtenances for the Phase 3 expansion of the LFG collection and flaring system at the 121 Regional Disposal Facility in Melissa, Texas.

TABULATION OF CONSTRUCTION BIDS

Sealed bids were received at 2:00 p.m. on Thursday, May 29, 2014, and are tabulated as follows:

<table>
<thead>
<tr>
<th>Bidder</th>
<th>Total Bid Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tri Con Works, L.P.</td>
<td>$175,351.50</td>
</tr>
<tr>
<td>Advance One Development, L.L.C.</td>
<td>$193,330.00</td>
</tr>
<tr>
<td>American Environmental Group, Ltd.</td>
<td>$196,284.00</td>
</tr>
<tr>
<td>SCS Field Services</td>
<td>$219,787.00</td>
</tr>
</tbody>
</table>

The engineer's opinion of probable construction cost based on the final design was $188,900.

The lowest responsive bid was received from Tri Con Works, L.P., (Tri Con) in the total bid amount of $175,351.50. Tri Con has successfully completed several similar projects nationwide including the Phase 2 121 RDF LFG System Expansion, Project No. ENG 12-4 for the NTMWD. Tri Con has also assisted NTMWD on multiple emergency repair efforts in recent years. They have proven to be responsive and thorough in their work and have always worked well with NTMWD staff. Based on Tri Con's previous performance for NTMWD, and their standing as the lowest responsive bidder, the NTMWD staff and Weaver Boos is recommending the award of the construction contract to Tri Con in the amount of $175,351.50.

FUNDING

Funding in the amount of $175,351.50 for this project is available in the Regional Solid Waste System 2013-14 Operating Budget (Account 401-5523-54151 Landfill Development Cost – Contract).
RECOMMENDATION

It is the recommendation of the Executive Director, NTMWD staff, and Weaver Boos Consultants, LLC-Southwest, that the Board of Directors authorize award of a construction contract to Tri Con Works, L.P. for the 121 Regional Disposal Facility 2014 Phase 3 Landfill Gas System Expansion, Project No. ENG 14-2, in the amount of $175,351.50. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4216

REGIONAL WATER SYSTEM
MCCREE ROAD 6 MG GROUND STORAGE TANK
PROJECT NO. 357

ENGINEERING SERVICES AGREEMENT

This administrative memorandum requests the Board of Directors consideration to authorize employment of Lockwood Andrews & Newnam, (LAN) to provide design and construction phase services associated with the McCree Road 6 Million Gallon (MG) Ground Storage Tank, Project No. 357. The engineering services agreement (ESA) will be in accordance with the standard NTMWD agreement in a not-to-exceed amount of $509,800.

REVIEW

In March 2013, the Board of Directors approved Administrative Memorandum No. 3957 authorizing an ESA with LAN in the amount of $427,040 for the Apollo Delivery Point 5.5 MG Ground Storage Tank, Project No. 325. In September 2013, during a design coordination meeting with the City of Garland, NTMWD staff learned of an available alternate site near the intersection of McCree Road and IH 635 in Garland (McCree Road site) that will result in more favorable hydraulics from this proposed tank installation. NTMWD staff conducted a preliminary hydraulic analysis and concluded that the alternative site was a better option than the original Apollo site. The site on McCree Road was preferable to the City of Garland since it is located in a commercial area in the city along IH 635.

In December 2013, the Board approved Consent Agenda Item No. 13-12-02 authorizing additional engineering services with LAN. The purpose of the additional engineering services was to perform a detailed hydraulic analysis to confirm the benefits of the alternate McCree Road Site and determine the hydraulic parameters for the design of the tank. Since FNI performed the hydraulic analysis for the 2010 Water Transmission System Update and is very familiar with NTMWD’s water system, FNI performed the additional engineering services as a sub-consultant to LAN.

In April 2014, the Board approved Administrative Memorandum No. 4176 authorizing the funding to purchase approximately five acres of land as the McCree Road Site.

The NTMWD staff recommendation for installation of this tank is driven by guidance criteria issued by the Texas Commission on Environmental Quality (TCEQ), which recommends transmission systems maintain a minimum pressure on potable water transmission pipelines. While NTMWD uses a combination of methods to maintain the minimum pressure at various parts of the system, depending on specific hydraulic gradient and operating conditions, the proposed new 6 MG ground storage tank at the McCree Road site will meet this requirement by providing a minimum operating level
above the highest elevation in both the Apollo to Casa View pipeline system and the Wylie to Garland to Casa View pipeline system. The revised tank location will provide reserve system storage against emergency needs and will improve operations in the South Delivery System by providing better equalization of pressures.

Adoption of this revised tank location will allow existing Project No. 325 to be cancelled, and the scope of Project No. 324 to be significantly reduced. Project No. 324 had included design of a second ground storage tank at NTMWD's Wallace Street Delivery Point; however, the proposed McCree Road site will take the place of both the Apollo Site ground storage tank and the Wallace Street ground storage tank, and provide for the minimum pressures in this portion of the South System as recommended by TCEQ guidance. Elimination of one of the two ground storage tanks and relocation of the tank site to McCree Road will result in savings of millions of dollars as compared to the original concept.

DESCRIPTION OF PROJECT

The McCree Road ground storage tank improvements include the construction of a new 6 MG ground storage tank with associated yard piping, electrical and instrumentation improvements, additional piping appurtenances, overflow improvements, a new valve vault, and addition of an access driveway.

The engineer's opinion of probable construction cost for these improvements is $5,835,100.

ENGINEERING SERVICES FEE

LAN developed a proposal for preliminary design, construction contract documents, bid phase assistance, and certain construction phase services for Project No. 357. Basic engineering services would be provided for the not-to-exceed amount of $453,800.

Proposed Special Services in the not-to-exceed amount of $56,000 are:

a) Preliminary Field Survey $6,400
b) Environmental Assessment and Survey, Phase I $3,800
c) Environmental Assessment and Survey, Phase II $17,500
d) Site Plan, Platting, Zoning Coordination w/Garland $20,000
e) Geotechnical Study $8,300
Total $56,000

The total recommended not-to-exceed fee is $509,800. The NTMWD staff has reviewed the engineering fee submitted by LAN and recommends it as it is within the guidelines of the Consulting Engineers Council for this type of work. The services would be performed in accordance with the standard ESA.
ADMINISTRATIVE MEMORANDUM NO. 4216
PAGE 3

FUNDING

Funding in the amount of $509,800 for Project No. 357 is available in the Regional Water System Capital Improvement Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize the Executive Director to execute an engineering services agreement with Lockwood Andrews & Newnam for design and construction phase services associated with the McCree Road 6 MG Ground Storage Tank, Project No. 357, in the not-to-exceed amount of $509,800. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4217

NTMWD ADMINISTRATION BUILDING
STRUCTURAL REPAIRS, BUILDING RENOVATIONS, AND BUILDING ADDITIONS
PROJECT NO. 301

ADDITIONAL ENGINEERING SERVICES

This administrative memorandum is to request the Board of Directors authorize an increase in the scope and fee for Huitz-Zollars, Inc., (Huitz-Zollars) for additional design services associated with the NTMWD Administration Building Structural Repairs, Building Renovations, and Building Additions, Project No. 301, in the not-to-exceed amount of $59,922. This will result in a revised total not-to-exceed engineering services fee of $648,312.

REVIEW

In July 2013, the Board of Directors approved Administrative Memorandum No. 4019 authorizing an engineering services agreement (ESA) with Huitz-Zollars for the administration building additions. The approach that was recommended to the Board included construction of a three-story building attached to the existing administration building, renovation of the south wing of the existing administration building, and installation of a cutoff wall on the perimeter of the existing building that would result in stabilization of the subgrade below the existing building.

In February 2014, the Board of Directors approved Administrative Memorandum No. 4127 authorizing additional engineering services with Huitz-Zollars for changes in design concept to: 1) revise the scope of the three-story building design from an attached building to a three-story standalone building west of the existing administration building; and, 2) renovate the south wing of the existing administration building to relocate the boardroom and executive offices to the new standalone administration building.

PROPOSED SCOPE OF ADDITIONAL SERVICES

This request for the additional engineering services fee consists of the following three items:

Item No. 1 – Additional Design to Enlarge Boardroom

$3,560

A new boardroom will be constructed in the new standalone administration building. Based on previous authorization, NTMWD staff directed Huitz-Zollars to proceed with design details of the new administration building with the boardroom being similar in size to the existing boardroom. After further review, NTMWD staff requested Huitz-Zollars to enlarge the boardroom to accommodate future growth and include space for additional staff and visitors.
Huitt-Zollars has requested additional design fees in the total not-to-exceed amount of $3,560 for the redesign and additional building and site work design associated with the enlarged boardroom. The proposed cost has been reviewed and is recommended by the NTMWD staff as representative of the effort associated with this requested change in design.

Item No. 2 – Additional Exterior and Interior Building Renovations

$22,362

NTMWD staff requested that Huitt-Zollars revise the original scope of services to include exterior renovations and include an additional interior bathroom renovation of the existing building south wing. The additional scope items include:

- Removal of the fountain and renovation and landscaping in the area to create a usable patio space.
- Removal and reinstallation of caulking in the joints of the exterior concrete panels.
- Cleaning and patching of the exterior panels as needed.
- Replace and/or repair the weather seals on the existing south wing windows, with select full window replacement as needed.
- Total removal of the damaged skylights in the existing boardroom and in the executive conference room.
- Enlarging the north and south side walls of the existing restrooms.

Huitt-Zollars has requested additional design services in the total amount of $22,362 for these additional scope items. The proposed cost has been reviewed and is recommended by NTMWD staff as representative of the effort required.

Item No. 3 – Additional Furniture Specifications for the New Building and West Side of the Renovated Building

$34,000

NTMWD staff requested that Huitt-Zollars include furniture specifications in the bid documents for the first two floors of the new three-story administration building and the west side of the renovation project area, which includes the new training room, the new break room, the renovated reception area, and the patio area. The design time required to research, coordinate, and obtain approval for the various furniture pieces for the multiple types of use areas would, at this point, extend beyond the anticipated general construction bid date of August 1, 2014. Therefore, the recommended approach is to develop a separate package for furniture specifications, layout plans, placement schedule, and receive bids for these elements separate from the general construction in order to avoid impacting the construction schedule. Construction of the building is planned to be completed by August 2015 to allow the Administrative Department to
occupy the building prior to the expiration of the lease for the temporary office space on September 1, 2015. Apart from the additional effort needed to develop the furniture specifications and drawings, there will also be additional time associated with the separate procurement process.

Huitt-Zollars has requested additional services in the total amount of $34,000 for the furniture package design and additional contract administration. The proposed cost has been reviewed and is recommended by NTMWD staff as representative of the research, specification, and coordination effort required.

**SUMMARY OF ADDITIONAL ENGINEERING FEES**

The additional not-to-exceed engineering fee for these additional engineering services is summarized as follows:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Additional Design to Enlarge Boardroom</td>
<td>$3,560</td>
</tr>
<tr>
<td>2</td>
<td>Additional Exterior and Interior Building Renovations</td>
<td>22,362</td>
</tr>
<tr>
<td>3</td>
<td>Additional Furniture Specifications for the New Building and West Side of the Renovated Building</td>
<td>34,000</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$59,922</strong></td>
</tr>
</tbody>
</table>

**SUMMARY OF ESA**

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<tr>
<th>Description</th>
<th>Basic Services</th>
<th>Special Services</th>
<th>Additional Services</th>
<th>Total</th>
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</thead>
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<tr>
<td>Original ESA (Ad. Memo. No. 4019)</td>
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<td>$543,265</td>
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<tr>
<td>Additional Engineering Services (Ad. Memo. No. 4127)</td>
<td>45,125</td>
<td></td>
<td></td>
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<tr>
<td>Proposed Additional Engineering Services</td>
<td></td>
<td></td>
<td>59,922</td>
<td>59,922</td>
</tr>
<tr>
<td>Revised ESA Amount</td>
<td>$556,890</td>
<td>$31,500</td>
<td>$59,922</td>
<td>$648,312</td>
</tr>
</tbody>
</table>

The additional services would be performed in accordance with the existing ESA.

**FUNDING**

Additional funding in the amount of $59,922 for this project is available in the Regional Water System Capital Improvement Fund.
RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize an increase to the engineering services agreement with Huitz-Zollars, Inc., for the NTMWD Administration Building Structural Repairs, Building Renovations, and Building Additions, Project No. 301, in the not-to-exceed amount of $59,922, resulting in a revised total not-to-exceed engineering services fee of $648,312. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4218

REGIONAL WATER SYSTEM
METER VAULT STANDARDIZATION, PHASE II, SET-POINT CONTROL
PROJECT NO. 338

PRELIMINARY ENGINEERING SERVICES AGREEMENT

This administrative memorandum is for the Board of Directors consideration to employ Freese and Nichols, Inc., (FNI) to provide preliminary engineering design for Project No. 338, Meter Vault Standardization, Phase II, Set-Point Control. This second phase will be accomplished in two stages, short-term improvements and long-term improvements. The short-term improvements stage will determine the existing infrastructure at each delivery point and develop an implementation plan for a possible automated control strategy for each delivery point. Under the long-term improvements stage, FNI will model the transmission system and determine the full range of hydraulic conditions present at each delivery point and determine what long-term improvements are required at each delivery point to achieve set-point control. The engineering services agreement would be in accordance with the standard NTMWD agreement with a not-to-exceed amount of $260,600.

REVIEW

There are currently over 70 wholesale delivery points in NTMWD's water transmission system. Approximately half of them are for the Member Cities and the other half are for the Customers. There is generally one meter vault at each delivery point, while a few sites have multiple meters. The main components in each meter vault include a billing meter, a control valve, and Supervisory Control and Data Acquisition (SCADA) instruments. According to the potable water supply contracts between NTMWD and Member Cities and Customers, NTMWD is responsible for constructing the meter vaults at the Member Cities' delivery points and the Customers are responsible for constructing the NTMWD-approved meter vaults at their delivery points. The Customers’ meter vaults become NTMWD’s property following completion of construction.

In September 2013, the Board approved Administrative Memorandum No. 4043 authorizing an engineering services agreement with FNI for Project No. 338, Phase I. Project No. 338, Phase I, developed standard plans and specifications to provide optimized design and standard meter and control valve selection. This was done to ensure greater consistency among all delivery points, reduce the effort required for the detailed design of each individual meter vault, and provide efficiency in the review process by NTMWD staff. This uniformity of design will result in similar operating and maintenance requirements for the various meter vault designs.
Phase II of the project will be the development of an implementation plan for set-point control for meter vaults at the Member Cities' and Customers' delivery points in the Water Transmission System. The purpose of this project is to provide the instrumentation and feedback necessary to deliver a predetermined rate of delivery at each delivery point. These improvements will help in maintaining a more constant rate of delivery throughout the transmission system and at the water treatment plants, thereby, decreasing the number of daily flow changes and increasing the operating efficiency at the water treatment plants. This refined operational control will allow for daily delivery volumes to be set for each delivery site in the event maximum delivery rates are required due to stricter conservation levels.

DESCRIPTION OF PROJECT

Phase II of the project involves two distinct tasks, the short-term evaluation and the long-term evaluation. The short-term evaluation includes development of a multi-stage implementation plan and developing control strategies and implementation for the summer of 2014. NTMWD and FNI will visit approximately 70 Water System delivery points to document and assess existing infrastructure including the valve, valve actuator, programmable logic controller, and flow meter. This information will be used to develop an implementation plan with multiple stages. The first stage will include system modifications to be completed as soon as possible and include but not be limited to programming, SCADA modifications, and modulating valves where possible with existing infrastructure or minor improvements.

The second stage will include modulating all valves, and future stages will include strategies for automating remote pump stations and high service pumping at the water treatment plants. An evaluation of the advantages, risks, and mitigation of risks associated with an automated water system will be done. Set-point control strategies will be developed for short-term implementation. These control strategies will include an evaluation by system and subsystem and will include all subsystems within the north, east, and south systems. FNI will assist NTMWD staff with determining the daily maximum volume by delivery point and city and implementation strategy. Control narratives and control diagrams will be developed to set the maximum flow rate and maximum daily volume at each delivery point capable of being automatically controlled using existing valves and meters. A proposed not-to-exceed fee of $130,400 is associated with the short-term evaluation.

The long-term evaluation includes assessing the equipment at individual delivery points to determine recommended improvements with cost estimates and phasing. The recommended improvements will provide the ability to modulate valves at all delivery points. A water system hydraulic model will be created to determine the minimum, average, and peak flows, and the range of pressures at each delivery point. The model and the equipment assessment will ultimately lead to a list of recommended improvements for each delivery point, which will be incorporated into the Water System Capital Improvements Plan (CIP) as future project(s). Planning level opinions of probable construction costs will be developed for the recommended site improvements at the delivery points. Costs will include engineering (permitting, design, surveying, and
general engineering representation during construction), right-of-way, property, construction, and inspection. These opinions of probable construction cost will be coordinated with the CIP, existing facility capabilities and condition, and demand projections to prioritize the recommended improvements. A report will be prepared that summarizes the results of the hydraulic modeling; expected operating points, planning level costs, and prioritized projects. A not-to-exceed fee of $130,200 is associated with the long-term evaluation.

ENGINEERING SERVICES FEE

The total proposed not-to-exceed fee for Phase II is $260,600. The NTMWD staff has reviewed the engineering fee submitted by FNI and believes it to be fair and reasonable for the work associated with this project. The services would be performed in accordance with the standard engineering services agreement.

FUNDING

Funding in the amount of $260,600 is available from the Regional Water System Capital Improvement Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize the Executive Director to execute an engineering services agreement with Freese and Nichols, Inc., for preliminary engineering for Project No. 338, Meter Vault Standardization, Phase II, Set-Point Control in the not-to-exceed amount of $260,600. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4219

REGIONAL WASTEWATER SYSTEM
WILSON CREEK REGIONAL WASTEWATER TREATMENT PLANT
ELECTRICAL IMPROVEMENTS, PHASE I
FINAL DESIGN
PROJECT NO. 343

ENGINEERING SERVICES AGREEMENT

This administrative memorandum requests the Board of Directors authorize the Executive Director to execute an engineering services agreement with Mbroh Engineering, Inc., (MEI), to provide professional design and construction phase services associated with the Wilson Creek Regional Wastewater Treatment Plant (RWWTP) Electrical Improvements, Phase I, Final Design, Project No. 343. The engineering services agreement would be in accordance with the standard NTMWD agreement with a not-to-exceed amount of $409,960.

REVIEW

The Wilson Creek RWWTP was initially placed into service in 1987 with an 8 MGD treatment capacity and has undergone four major expansions and process upgrades to achieve the current average annual daily flow capacity of 56 MGD. In 2003, a secondary incoming power line from a separate ONCOR substation was built to address Texas Commission on Environmental Quality design guidelines for power reliability. Recently, the incoming utility power was upgraded with a pair of NTMWD-purchased 7,500 kVA transformers and associated equipment, the main electrical switchgear was serviced, and most of the original circuit breakers were replaced with refurbished breakers.

In November 2013, the Board approved Administrative Memorandum No. 4086 authorizing an engineering services agreement with MEI for preliminary design of the Phase I improvements.

PURPOSE

The electrical backbone equipment that distributes electrical power throughout the plant site is becoming old and has suffered from extended exposure to the corrosive conditions. This equipment and its current distribution configuration are based on outdated technology that does not offer the level of isolation flexibility provided by modern gear equipment. The existing distribution system is also installed mostly in buried duct banks. These duct banks have become compromised over time due to soil movement and a large amount of spot excavations, which is a necessary result of continuing growth and piping maintenance on a congested plant site. An overhead looped system allows the electrical conductors to be taken out of the ground and placed where they can be easily seen and accessed for maintenance and/or repair. The
combination of questionable reliability and the inability to isolate individual sections of the gear to perform maintenance or repair creates vulnerability for plant operations.

The purpose of the preliminary engineering effort was to evaluate replacing elements of the existing buried primary radial electrical feed system with a looped overhead configuration and provide the switching to isolate individual components for maintenance or repair without affecting the treatment process. The effort also considered the relative advantage of upgrading the existing electrical distribution equipment in several phases through replacement with modern gear that allows isolation of load centers and switchgear lineups, improving both flexibility and maintenance capability.

Preliminary engineering established corridors for two new overhead loops forming the backbone of the primary electrical distribution system, developed one-line schematic diagrams of the modified distribution system, evaluated the condition of and requisite loads of the various load center transformers, and developed general configurations for the individual load center conversions. The preliminary engineering effort also developed an estimated cost for the recommended improvements. Following up on these results, the purpose of this project is to develop construction documents for bidding and construction of the Phase I improvements.

In addition to the distribution system upgrades, two standby generators with automatic transfer switches will be installed in the final design to provide power to the UV disinfection equipment and plant water pump station in the event of a power outage.

Phase I would construct a loop interior to Plant I and upgrade the primary switches on six of the load centers. In Phase II, a second loop would be constructed on the outside of both Plant I and Plant II and replace the primary switches on another six load centers.

SCOPE OF SERVICES

Phase I of the electrical improvements is intended to establish one of the two proposed looped distribution systems and connect individual process area load control stations (LCS) in a phased manner. The conversion of the individual LCS to the new looped system will require both rewiring and replacement of equipment. It is anticipated that the current construction budget for this project will allow for construction of the Plant I overhead loop and conversion of the Plant I LCS at the same time.

The design will establish which LCS may be candidates for the initial conversion to the looped system and set the priority for tie-in of all of the various process areas. This prioritization will depend on condition of the gear, size and cost of each LCS conversion and how it fits the available budget, and the schedule for other process improvement projects where the conversions could take place.

Under basic services, MEI will develop an overhead looped medium voltage distribution system for Plant I and develop a standard methodology for connecting the existing LCS to the overhead distribution system.
One or two workshops will be held with the plant's Operations staff for coordination of pole line locations that will minimize the impact on plant operations. Special services include surveying for topographic and plan data in selected locations and updating the existing electrical power systems study.

ENGINEERING SERVICES FEE

MEI has proposed to perform the engineering basic services described above for the not-to-exceed amount of $339,460. Special services are included in the amount of $70,500 for a total not-to-exceed amount of $409,960. NTMWD staff has reviewed the proposed scope and engineering fee submitted by MEI and believes it is within the guidelines of the Consulting Engineers Council for this type of work. The services would be performed in accordance with the standard NTMWD engineering services agreement.

FUNDING

Funding for Project No. 343, Wilson Creek RWWTP Electrical Improvements, Phase I, Final Design, in the amount of $409,960 is available in the Regional Wastewater System 2013 Construction Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize the Executive Director to execute an engineering services agreement with Mbroh Engineering, Inc., for design and construction phase services associated with the Wilson Creek Regional Wastewater Treatment Plant Electrical Improvements, Phase I, Final Design, Project No. 343, in the not-to-exceed amount of $409,960. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4220

REGIONAL WATER SYSTEM

PLANO NO. 4 DELIVERY POINT METERING STATION UPGRADE

PROJECT NO. 316

ADDITIONAL ENGINEERING SERVICES

This administrative memorandum requests that the Board of Directors authorize additional engineering services with Birkhoff, Hendricks & Carter, LLP, (BHC) to provide professional services associated with rebidding Project No. 316, Plano No. 4 Delivery Point Metering Station Upgrade (Project No. 316) in the not-to-exceed amount of $30,210. This increase will result in a revised total not-to-exceed engineering services fee of $94,210.

REVIEW

In January 2013, the Board approved Administrative Memorandum No. 3926 authorizing an engineering services agreement (ESA) with BHC for design of Project No. 316 in the not-to-exceed amount of $64,000. The upgrade to Plano No. 4 was included in the City of Plano’s (City) Stadium Pump Station project as a separate line item in the bidding documents. The City’s Stadium Pump Station project is NTMWD’s Plano No. 4 Delivery Point (Plano No. 4). The City’s pump station improvements will require the pump station to be completely out of service for the improvements; therefore, the work was scheduled to be performed during the low demand period from November 2014 through April 2015. NTMWD was aware of the City’s schedule and coordinated the meter vault improvements to coincide with the City’s construction schedule.

The City advertised and bid the project in April 2014 but they received only one responsive bid. In addition, the line item cost for NTMWD’s meter vault improvements exceeded the engineer’s estimate by 37%. The City is moving forward with award of the bid for their project to the sole bidder; however, the NTMWD Executive Director and staff recommend that NTMWD’s portion, the delivery point metering station upgrade, be advertised again and rebid to gain the benefit of competitive bidding.

DESCRIPTION OF PROJECT

Project No. 316 will include the following:

- Demolition of the existing metering station above and below grade
- A new metering station to accommodate piping, reducers, flow meter, flow control valve, and other associated items
- Structural design of a vault
- Architectural design of a building, to be coordinated with City requirements
• Ventilation design for the station
• Electrical design for lighting of the station, operation of the meter, valve, SCADA, and alarms
• Driveway improvements

ADDITIONAL SCOPE OF SERVICES

The following general scope items will be required of the work as a standalone project when advertised again and rebid:

• Revise plan title blocks for NTMWD project as opposed to the City project
• Revise specification and bidding documents to reflect that this is an NTMWD project
• Provide separate bid phase services
• Provide separate construction phase services that must be coordinated with the separate City project
• Additional submittal review

Interviews with equipment suppliers and subcontractors associated with the bid revealed that the complexity of the delivery point metering improvements and the presence of other large bid advertisements made this project a less attractive bidding opportunity for contractors at that time. The consultant will coordinate with potential bidders and local suppliers to understand the bidding climate and seek to set a rebid date that will result in better interest.

ADDITIONAL ENGINEERING SERVICES FEE

BHC has requested additional engineering fees in the not-to-exceed amount of $30,210 to revise the bidding documents suitable to rebid and perform construction phase services associated with a standalone project. NTMWD still desires to construct the improvements to this delivery point during upcoming low flow period of November 2014 to April 2015 while the City is also performing their improvements and the Plano Stadium Pump Station project is out of service.

The NTMWD staff has reviewed the engineering fees submitted by BHC and recommends them as representative of the effort required and within the guidelines of the Consulting Engineer’s Council for this type of work. The services would be performed in accordance with the existing standard ESA.

The initial opinion of probable construction cost for this project was $800,000. Based on the discussions with contractors and suppliers about the current bidding environment and its immediate impact on bid pricing, BH&C has revised their opinion of probable construction cost upward to $1,000,000. This reflects the anticipation that the current local construction boom and other market pressures are beginning to ease construction prices higher. These pressures include rising steel prices, rising concrete prices due to shortages of sand, and strong local competition for the construction labor force.
SUMMARY OF ENGINEERING FEES

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<th>Description</th>
<th>Basic Services</th>
<th>Additional Services</th>
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<td>$64,000</td>
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<td>(Ad Memo No. 3926)</td>
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<tr>
<td>Proposed Additional Services</td>
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<td>Revised ESA Amount</td>
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<td>$30,210</td>
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FUNDING

Additional funding in the amount of $30,210 is available in the Regional Water System Capital Improvement Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize additional engineering services with Birkhoff, Hendricks & Carter, LLP, to provide professional services associated with rebidding the Plano No. 4 Delivery Point Metering Station Upgrade, Project No. 316, in the not-to-exceed amount of $30,210. This increase will result in a revised total not-to-exceed engineering services fee of $94,210. This will be an item on the regular agenda of the June 2014 Board meeting.
NORTH TEXAS MUNICIPAL WATER DISTRICT

JUNE 2014

ADMINISTRATIVE MEMORANDUM NO. 4221

UPPER EAST FORK INTERCEPTOR SYSTEM
INDIAN CREEK/PRESTON ROAD FORCE MAIN SURGE IMPROVEMENTS
PROJECT NO. 334

ENGINEERING SERVICES AGREEMENT

This administrative memorandum requests the Board of Directors authorize the Executive Director to execute an engineering services agreement with Alan Plummer Associates, Inc., (APAI) to provide design and construction phase services associated with the Indian Creek/Preston Road Force Main (FM) Surge Improvements, Project No. 334, in a not-to-exceed amount of $59,000.

REVIEW

The Indian Creek/Preston Road Force Main was completed in 2011 to transfer raw wastewater from the Preston Road Lift Station (LS) to the Wilson Creek Regional Wastewater Treatment Plant (RWWTP). The Indian Creek/Preston Road FM added conveyance capacity from the west side of Plano and parts of Frisco to the Wilson Creek RWWTP.

The original Indian Creek/Preston Road FM design included a level of surge analysis necessary to verify pressure spikes would be within the pipe design rating, and an advanced surge analysis was not seen as critical for that purpose. During the first two and one half years of operation of this force main, several pipeline leaks occurred within a short distance of the Preston Road LS. This damage, in an essentially brand new facility, suggested that it may be advantageous to provide for assured operations with pressure fluctuations below the original design allowance and led to a recommendation from the NTMWD staff for additional engineering analysis for potential determination of the cause of the pipeline problems being encountered and alternate operational solutions.

In July 2013, the Board approved Consent Agenda Item No. 13-07-06 authorizing engineering services by Flow Science, Inc., (Flow Science) to perform an advanced surge analysis of the force main. Surge occurs in a pressure pipeline when there is a sudden change in the water velocity such as on an abrupt pump startup or shutdown. Surge events can often be managed through operational approaches that start and stop pumps in an orderly fashion. The notable exception is sudden loss of power to the pumps that does not allow for controlled shutdown. In their report, Flow Science noted extremely high surge values occurred during a sudden shutdown of the pumps, and these high surge values were a potential cause for the damage seen in the force main. Based on the surge conditions that were observed, Flow Science recommended two options for mitigating the surge. The first option would supplement the existing air/vacuum valves along the Indian Creek/Preston Road FM with 11 additional
strategically placed air/vacuum valves. The second option would utilize a surge tank at the Preston Road LS along with four additional air/vacuum relief valves on the force main.

Issues that must be considered in evaluating these two options include preventive maintenance requirements for air/vacuum valves for wastewater service, additional air introduced into and expelled from the force main pipeline, and having additional odor control facilities at locations where air is expelled. Air release and vacuum valves must be checked and maintained routinely to verify that they will function as designed when needed, and operational experience demonstrates that this requires significant time and effort. Based on these operational considerations, the option of installing 11 additional valves was excluded.

DESCRIPTION OF PROJECT

The purpose of this ESA with APAI is to develop contract documents for construction of surge control facilities at the Preston Road LS (Option 2 from the Flow Science study) and at least one of the air/vacuum valves on the Indian Creek/Preston Road FM. APAI has proposed a phased approach beginning with a concept development phase, followed by detailed design, bid phase, and construction phase services.

The concept development phase will develop a conceptual design technical memorandum for a surge tank at the Preston Road LS. The technical memorandum will contain control schematic and sketches, conceptual design criteria, a listing of recommended manufacturers, and an opinion of probable construction cost (OPCC).

Design and bid phase services comprise traditional tasks to prepare plans and specifications for a competitive bid, assist with advertising, pre-bid meeting, bid evaluation, responses to bidder questions, and producing conformed documents for the construction contract. Design phase special services include site surveying and geotechnical investigation. Reviews would be held for the 80% and final documents at which point the OPCC would also be updated.

Construction phase services consist of traditional tasks to review submittals, attend construction progress meetings, review progress payment applications, respond to requests for information, final walkthrough, and prepare record drawings.

ENGINEERING SERVICES FEE

APAI has proposed a not-to-exceed fee of $50,500 for basic services and $8,500 for special services for a total not-to-exceed fee of $59,000. The services would be performed in accordance with the standard engineering services agreement. A preliminary estimate of the construction cost of this project is $500,000.
FUNDING

Funding in the amount of $59,000 is available in the Upper East Fork Interceptor System 2009 Construction Fund.

RECOMMENDATION

It is the recommendation of the Executive Director and NTMWD staff that the Board of Directors authorize the Executive Director to execute an engineering services agreement with Alan Plummer Associates, Inc., for engineering services associated with Indian Creek/Preston Road Force Main Surge Improvements, Project No. 334, in the not-to-exceed amount of $59,000. This will be an item on the regular agenda of the June 2014 Board meeting.
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<th>Member Cities</th>
<th>Water Used May 14 1000 Gallons</th>
<th>Daily Avg May 14</th>
<th>Total 13-14 Aug - May 1000 Gallons</th>
<th>% of Annual Maximum</th>
<th>Water Used May 13 1000 Gallons</th>
<th>Daily Avg May 13</th>
<th>Total 12-13 Aug - May 1000 Gallons</th>
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### Lake Elevations

**Lawton (Conservation Pool 492.0)**
- 95.4% (113,528) acre-ft Remaining Water Right
  - Maximum: 480.66
  - Minimum: 479.85
  - Average: 480.46

**Chapman (Conservation Pool 440.0)**
- 44.9% (25,704) acre-ft Remaining Water Right
  - Maximum: 433.16
  - Minimum: 428.84
  - Average: 431.91

**Tawakoni (Conservation Pool 437.5)**
- 0.0% (0) acre-ft Remaining Water Right
  - Maximum: 429.34
  - Minimum: 427.30
  - Average: 428.83

### Precipitation

**Lawton**
- May 2014: 5.42
- May 2013: 6.06

**Chapman**
- May 2014: 5.62
- May 2013: 4.24

**Tawakoni**
- May 2014: 3.34
- May 2013: 4.61
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# NORTH TEXAS MUNICIPAL WATER DISTRICT

## REGIONAL WASTEWATER SYSTEM FLOW REPORT

### MAY 2014

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* Report does not include nonmember city flows.
## NORTH TEXAS MUNICIPAL WATER DISTRICT
### REGIONAL WASTEWATER SYSTEM FLOW REPORT

#### MAY 2014

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### NORTH TEXAS MUNICIPAL WATER DISTRICT
### WASTEWATER QUALITY REPORT
### MAY 2014

#### CARB. BIOCHEMICAL OXYGEN DEMAND

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<th>REGIONAL SYSTEM</th>
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<th>FINAL EFFLUENT (mg/L)</th>
<th>TCEQ LIMIT (mg/L)</th>
<th>% REMOVAL</th>
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* Final Effluent Reported as BOD5.

#### AMMONIA-NITROGEN

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NORTH TEXAS MUNICIPAL WATER DISTRICT
REGIONAL SOLID WASTE SYSTEM
TONNAGE REPORT

May 2014

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SOURCE

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<td>67,150.25</td>
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## WATER SYSTEM

**PROJECT: NO. WCF 07-4**  
LAKE TAWAKONI WATER TREATMENT PLANT  
CONTRACTOR: BAR CONSTRUCTORS, INC.  
CONTRACT DATE: JUNE 26, 2008  
NOTICE TO PROCEED DATE: JULY 17, 2008  
ORIGINAL COMPLETION DATE: JUNE 30, 2010  
REVISED COMPLETION DATE: JANUARY 14, 2013  
TIME LAPSED: 130%  

**BID AMOUNT:** $61,316,420.00  
**CHANGE ORDERS:**  
1. $(88,876.76)  
2. $83,334.34  
3. $24,913.52  
4. $35,890.05  
   Time Ext.-100 Days  
5. $532,186.58  
   Time Ext.-401 Days  
6. $262,271.96  
7. $55,586.52  
8. $50,285.76  
   Time Ext.-56 Days  
9. $82,627.19  
   Time Ext.-98 Days  
10. $16,211.07  
   Time Ext.-237 Days  
11. $24,693.03  
   Time Ext.-37 Days  

**CURRENT CONTRACT AMOUNT:** $62,395,543.26  
**AMOUNT EARNED TO DATE:** $62,385,543.26  
**% CONTRACT AMOUNT EARNED:** 99%

**REMARKS:** The contractor has completed all major components of construction except for the sedimentation basin sludge lagoon. A discharge from the lagoon was discovered in December 2013. NTMWD technical services has constructed containment berms and installed submersible pumps to arrest the discharge and return the leaking water back to the lagoon. In May 2014, NTMWD staff received a letter from the contractor's attorney, Canterbury, Gooch, Surratt, Shapiro, Stein & Gaswirth, P.C., requesting a partial release of retainage while negotiations for corrective action are underway. NTMWD staff also received a verbal proposal from the contractor to install a new liner over the lagoon floor and side slopes. NTMWD staff has forwarded the letter from Mr. Gooch and the contractor's proposal to Black & Veatch (B&V) and Saunders, Walsh & Beard for review. NTMWD staff and B&V continue to monitor the leak while negotiations continue with the contractor.

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**PROJECT NO. 128**  
LAKE TEKOMA PUMP STATION MODIFICATIONS  
CONTRACTOR: ARCHER WESTERN CONTRACTORS, LLC  
CONTRACT DATE: JANUARY 13, 2009  
NOTICE TO PROCEED DATE: JANUARY 14, 2009  
COMPLETION DATE: AUGUST 1, 2010  
TIME LAPSED: 347%  

**BID AMOUNT:** $6,479,702.00  
**CHANGE ORDERS:**  
1. $37,046.13  
2. $82,116.00  
3. $51,085.65  

**CURRENT CONTRACT AMOUNT:** $6,646,959.78  
**AMOUNT EARNED TO DATE:** $6,419,797.53  
**% CONTRACT AMOUNT EARNED:** 97%
REMARKS: Since the two new vertical pumps were stored onsite for an extended period, the option to undertake a factory inspection prior to installation was recommended to the Board at the July 2013 meeting. The Board approved Change Order No. 2 in the amount of $82,116 to have the pumps returned to the pump manufacturer for inspection prior to installation. In January, the pumps were inspected by the pump manufacturer and the NTMWD was given the inspection report. In February, the Board approved Change Order No. 3 in the amount of $51,095.65 to have the pump manufacturer recoat the pumps and repair a galled shaft, both per the pump manufacturer's recommendation following completion of the inspection report. In March, the pump manufacturer repaired the galled shaft and recoated the pumps. In April, the pumps were shipped back to the Lake Texoma pump station. In May, the contractor worked to complete the new eight-inch bypass piping, and discharge piping, on the two existing pumps. In addition, the startup of one of the existing 4,000hp pumps was successful and this was used to fill the new balancing reservoir constructed under Project No. 268.

PROJECT NO. 153
WATER TREATMENT PLANTS I, II, III AND IV OZONATION

CONTRACTOR: MCCARTHY BUILDING COMPANIES, INC.

CHANGE ORDERS: 1 - $87,737.15
2 - $30,000.00
3 - ($48,178.06)
4 - $120,288.62
5 - $85,531.62
6 - $102,863.15
7 - $252,716.53
8 - $179,303.48
9 - $128,065.21
10 - $111,463.32
11 - $155,596.10
12 - $160,584.35
13 - $269,575.51
14 - $76,130.23
15 - $54,251.21
16 - $144,688.77
17 - $58,405.59
18 - $475,186.93
19 - ($4,756,650.01)
20 - $52,692.05
21 - $70,404.74
22 - $72,815.57
23 - $35,120.49
24 - $38,373.02
25 - $103,555.41
26 - (24,697.35)

CURRENT CONTRACT AMOUNT: $111,024,823.63
AMOUNT EARNED TO DATE: $106,162,890.55
% CONTRACT AMOUNT EARNED: 96%

REMARKS: McCarthy has achieved substantial completion for Milestone No. 2, which is both ozone contactors at WTP III and the remaining portion of North Ozone Operations Building (NOPS). Witness testing of all equipment and instruments in WTP I and II contactors as well as all of the equipment in the South Ozone Operations Building (SOPS) is complete. The site acceptance test of the SCADA system for SOPS also is complete. The functional testing of the complete ozone system in SOPS and all of the WTP I and II contactors is underway. McCarthy also is working on deficiencies identified at NOPS, WTP III north and south contactors, and WTP IV contactor.
PROJECT NO. 188
EXPAND HIGH SERVICE PUMP STATION 3-1 TO 350 MGD
CONTRACTOR: BAR CONSTRUCTORS, INC.

CHANGE ORDERS: 1 - $136,720.94
Time Ext.-75 Days

CURRENT CONTRACT AMOUNT: $7,857,298.94

AMOUNT EARNED TO DATE: $7,721,976.16

% CONTRACT AMOUNT EARNED: 98%

REMARKS: The pumps are scheduled for startup during the month of June. The contractor is in the processing of repairing an existing broken duct bank in order to pull the necessary cables for the flow meter.

PROJECT NO. 202
ELECTRICAL IMPROVEMENTS AT HIGH SERVICE PUMP STATION NO. 1-1
CONTRACTOR: CRESCENT CONSTRUCTORS, INC.

CHANGE ORDERS: NONE

CURRENT CONTRACT AMOUNT: $3,537,000.00

AMOUNT EARNED TO DATE: $605,525.22

CONTRACT AMOUNT EARNED: 17%

REMARKS: House power transformer pads are installed and construction of the main power feed duct bank is underway. A shutdown form requesting authorization to cross the service road south of HSPS 1-1, with the duct bank construction, has been submitted and is currently pending NTMWD coordination with other work in the area. Cable tray installation is 90% complete.

PROJECT NO. 205
SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM UPGRADES AND OPERATIONS
CONTRACTOR: PRIME CONTROLS, LP

CHANGE ORDERS: 1 - $21,083.16
Time Ext.-90 Days
2 - $94,505.21
Time Ext.-120 Days

CURRENT CONTRACT AMOUNT: $2,830,320.37

AMOUNT EARNED TO DATE: $2,557,041.33

CONTRACT AMOUNT EARNED: 90%

REMARKS: The contractor has completed installing all PLCs, and has tested all except two. All PLCs are in operation. The fiber optics network is complete and in operation and awaiting third party testing. HMI and server work is in operation and awaiting final acceptance test.
PROJECT NO. 210
NORTH MCKINNEY PIPELINE PHASES I AND II
CONTRACTOR: S.J. LOUIS CONSTRUCTION OF TEXAS, LTD.
CONTRACT DATE: JANUARY 23, 2014
NOTICE TO PROCEED DATE: FEBRUARY 26, 2014
ORIGINAL COMPLETION DATE: JANUARY 22, 2015
REVISED COMPLETION DATE: FEBRUARY 21, 2015
TIME LAPPED: 25%

REMARKS: The contractor continues tunneling and pipe installation operations in McKinney. The tunnels along Airport Road in McKinney are complete. Tunneling operations in Fairview and Lucas have commenced. The contractor has installed approximately 3,000 LF of 36-inch pipe and approximately 5,200 LF of 60-inch pipe.

PROJECT NO. 251
WATER TREATMENT PLANT IV CONVERSION TO BIOLOGICALLY ACTIVE FILTRATION
CONTRACTOR: ARCHER WESTERN CONTRACTORS, LLC
CONTRACT DATE: MARCH 22, 2012
NOTICE TO PROCEED DATE: MARCH 29, 2012
COMPLETION DATE: DECEMBER 29, 2013
REVISED COMPLETION DATE: APRIL 28, 2014
TIME LAPPED: 104%

REMARKS: All major work on this project is complete. Archer Western is working on punchlist items generated during the final inspection, as well as the final operations and maintenance manuals. Final payment, as authorized by the Board, will be made after all punchlist items are complete.

PROJECT NO. 259
WATER TREATMENT PLANT I CONVERSION TO BAF AND IMPROVEMENTS OF EXISTING UNDERDRAINS
CONTRACTOR: PCL CONSTRUCTION, INC.
CONTRACT DATE: NOVEMBER 15, 2012
NOTICE TO PROCEED DATE: DECEMBER 6, 2012
COMPLETION DATE: MAY 5, 2015
TIME LAPPED: 61%

REMARKS: This project includes work in all 12 filters and 4 clariflocculators at WTP I. Work is complete on Clariflocculator Nos. 1 and 4, and Filter Nos. 2, 4, 8, 10, and 12. Startup of completed filters was performed the first week of March 2014. Filter No. 6 is complete and media installation on Filter Nos. 11, 9, and 7 is underway. Contractor plans to return these 4 filters to operation in early June 2014.
PROJECT NO. 266
42-INCH AND 24-INCH WATERLINE RELOCATION ALONG STACY ROAD (FM 2788) FROM SH 5 (GREENVILLE DRIVE) TO FM 1378 (COUNTRY CLUB ROAD)

CONTRACTOR: MOUNTAIN CASCADE OF TEXAS, LLC

CONTRACT DATE: DECEMBER 19, 2013

NOTICE TO PROCEED DATE: JANUARY 14, 2014

COMPLETION DATE: DECEMBER 10, 2014

TIME LAPSED: 40%

REMARKS: The contractor continues to perform tunneling operations and began open trench pipe installation on May 28. The contractor has received approval from the City of Allen and the Town of Fairview to perform tunneling operations on a 24-hour basis provided neither receive complaints from their residents.

PROJECT NO. 268
LAKE TEXOMA OUTFALL TO WYLIE WATER TREATMENT PLANT RAW WATER PIPELINE

CONTRACTOR: (CMAR): GARNEY CONSTRUCTION

CMAR NOTICE TO PROCEED DATE: JUNE 29, 2012

CONTRACT DATE: JUNE 26, 2012

COMPLETION DATE: JUNE 30, 2014

TIME LAPSED: 95%

REMARKS: In January 2013, through approval of Administrative Memorandum No. 3931, the Board approved an adjustment to the allowance for Garney Companies, Inc., (the CMAR) for additional funding for bonds, insurance, contingency, and construction in the amount of $20,075,609. This requested additional funding and set the guaranteed maximum price at $282,323,495 based on the current scope for the project.

BIDS RECEIVED & AWARDED
Plant Work Bid Package No. 6 was completed and approved in February; there are no planned additional bid packages required for completion of this project.

CONSTRUCTION
All pipeline sections (A, B, C, D, and E) are complete and passed hydrostatic testing. Pipeline contractors are finishing work on easement restoration. The fiber optic cable contractor completed the fiber optic cable installation and it was successfully tested. The balancing reservoir contractor successfully completed the site acceptance test, and they continue to work on miscellaneous punchlist work items. The balancing reservoir was placed into service when the existing 4,000hp pump at the Texoma Pump Station was used to fill the reservoir.

On the Wylie water treatment plant site, the surge tank, all four blend tanks, and all four mixing boxes are substantially complete. All four plant raw water pipelines are tied in to the new mixing boxes and blend tanks, and all Lake Lavon water now flows through the new blending facilities. On May 27, Plant IV
successfully began blending Texoma water with Lavon water, and the Plant III blending facilities were started up and tested the following day. Work continued in the north and south electrical buildings at Raw Water Pump Station No. 3, the reclaim electrical buildings, and other electrical buildings. Work continued on various meter vaults, flow meter installations, and miscellaneous plant piping. The electrical contractor continued work on miscellaneous items including equipment testing, setting panels, and various duct banks throughout the plant site.
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<th>Amendment</th>
<th>Date Bid</th>
<th>Date Authorized</th>
<th>Item</th>
<th>Budget</th>
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PROJECT NO. 275
CHAPMAN LAKE WATER ACCESS TASK B (DREDGING)

CONTRACTOR: KALLAN INDUSTRIES, INC.

CONTRACT DATE: JANUARY 10, 2014
NOTICE TO PROCEED DATE: JANUARY 16, 2014
COMPLETION DATE: JUNE 5, 2014
REVISED COMPLETION DATE: JUNE 25, 2014

TIME LAPSED: 81%

BID AMOUNT: $1,762,206.00
CHANGE ORDERS: 1 - $56,033.75
Time Ext.-20 Days
CURRENT CONTRACT AMOUNT: $1,818,239.75
AMOUNT EARNED TO DATE: $757,800.85
% CONTRACT AMOUNT EARNED: 42%

REMARKS: The contractor has completed installation of the dewatering system and turbidity protection screens. Dredging has commenced and turbidity readings have been acceptable. Dredging is approximately 20% complete.

PROJECT NO. 276
WYLIE WATER TREATMENT PLANT FINISHED WATER RESERVOIR AND FLOW METERING IMPROVEMENTS

CONTRACTOR: BAR CONSTRUCTORS, INC.

CONTRACT DATE: AUGUST 22, 2013
NOTICE TO PROCEED DATE: OCTOBER 1, 2013
COMPLETION DATE: JULY 23, 2015

TIME LAPSED: 37%

BID AMOUNT: $14,720,800.00
CHANGE ORDERS: 1 - ($568,496.03)
2 - $18,439.98
CURRENT CONTRACT AMOUNT: $14,170,743.95
AMOUNT EARNED TO DATE: $4,429,676.37
% CONTRACT AMOUNT EARNED: 31%

REMARKS: Excavation for the 4-2 clearwell is complete and several footings have been poured. NTMWD is awaiting pricing from BAR to repair and coat the underside of the deteriorated roof of Clearwell 3-1 and replace the fallen baffie walls. At Plant I, the clariflocculator influent piping and butterfly valves have been installed and the vaults are under construction.

PROJECT NO. 277
WATER TREATMENT PLANT III FILTER UNDERDRAIN IMPROVEMENTS AND CONVERSION TO BAF

CONTRACTOR: ARCHER WESTERN CONTRACTORS, LLC

CONTRACT DATE: JANUARY 24, 2013
NOTICE TO PROCEED DATE: FEBRUARY 7, 2013
ORIGINAL COMPLETION DATE: DECEMBER 9, 2015
REVISED COMPLETION DATE: JANUARY 9, 2016

TIME LAPSED: 45%

BID AMOUNT: $6,452,461.00
CHANGE ORDERS: 1 - $104,527.71
Time Ext.-31 Days
2 - $53,132.85
3 - $69,072.15
4 - $135,947.25
CURRENT CONTRACT AMOUNT: $6,815,140.95
AMOUNT EARNED TO DATE: $3,701,347.38
% CONTRACT AMOUNT EARNED: 54%

REMARKS: This project includes work in all 40 filters at WTP III and Filter No. 21 at WTP II. Filters completed to date are Nos. 1-3 and 36-40. A substantial completion walkthrough was performed in April for the completed filters and two filters had defective paint on the gullet floors. The paint manufacturer’s representative has visited the site and we are awaiting recommendations. Filter No. 23 is out of service.
pending approval of a change order to replace the underdrain blocks. Filter No. 26, which requires extensive repairs, is out of service until next winter when a large portion of the plant can be out of service for the period of time required to complete the repairs. Filter Nos. 9 and 10 are currently out of service and are scheduled to be completed in June. Filter No. 8 is also out of service and requires repainting. Work on Filter No. 21 at Plant II was halted due to water leaking into the filter through the demolished area that was to be repaired. A diving crew was hired to inspect the filter effluent flume at Plant II and, a large crack was found in the concrete wall. The divers were able to use epoxy to stop the flow of water so that work can continue next fall after chemical pipes are relocated for the modified repair plan.

**PROJECT NO. 284**
WYLIE WTPs I AND II SLUDGE LINE IMPROVEMENTS

**CONTRACTOR:** PCL CONSTRUCTION, INC.

**CONTRACT DATE:** JUNE 27, 2013

**NOTICE TO PROCEED DATE:** AUGUST 8, 2013

**ORIGINAL COMPLETION DATE:** JANUARY 9, 2014

**REVISED COMPLETION DATE:** APRIL 25, 2014

**TIME LAPSED:** 112%

**REMARKS:** Sludge pipeline installation is complete, and pipeline is in service. Walkthrough and inspection punchlist was performed on April 24, 2014. Acceptance walkthrough was performed on May 22, 2014. Request for final payment was approved at the May Board meeting. Final payment will be processed upon completion of all punchlist items.

**PROJECT: NO. 289**
SOUTH DELIVERY POINT IMPROVEMENTS, PRIORITY NO. 2

**CONTRACTOR:** ARCHER WESTERN CONSTRUCTION, LLC

**CONTRACT DATE:** NOVEMBER 21, 2013

**NOTICE TO PROCEED DATE:** DECEMBER 9, 2013

**COMPLETION DATE:** AUGUST 6, 2014

**TIME LAPSED:** 78%

**REMARKS:** During the month of May, the contractor completed the roof on the College Mound delivery vault and slab and walls on the Rose Hill delivery vault. The contractor continues to process submittals.
PROJECT NO. 293
BONHAM WATER TREATMENT PLANT
SLUDGE LAGOON IMPROVEMENTS

CONTRACTOR: HARRISON WALKER & HARPER, LP

CONTRACT DATE: APRIL 25, 2013

NOTICE TO PROCEED DATE: MAY 8, 2013

COMPLETION DATE: APRIL 3, 2014

TIME LAPSED: 115%

REMARKS: Contractor is currently installing the pumps, piping, and handrail for the decant pump station. Mow strip for the fence has been poured. Trench for electrical duct bank is complete, and conduit is being installed. The skid mounted polymer feed system has been delivered to the site and will be installed in June.

PROJECT NO. 296
WYLIE WATER TREATMENT PLANT IMPROVEMENTS
FCC LAGOONS 1, 2, AND 3

CONTRACTOR: PCL CONSTRUCTION, INC.

CONTRACT DATE: SEPTEMBER 19, 2013

NOTICE TO PROCEED DATE: OCTOBER 7, 2013

COMPLETION DATE: MAY 5, 2014

TIME LAPSED: 109%

REMARKS: The contractor was able to dewater Lagoon No. 2 and completed the tie-in of the decant line under the lagoon. The sludge header has been installed and the sludge outlets are approximately 50% complete.

PROJECT NO. 298
HIGH SERVICE PUMP STATION 2-2 AND 2-3
ELECTRICAL IMPROVEMENTS

CONTRACTOR: WHF ELECTRICAL CONTRACTORS, INC.

CONTRACT DATE: OCTOBER 17, 2013

NOTICE TO PROCEED DATE: NOVEMBER 7, 2013

ORIGINAL COMPLETION DATE: JUNE 5, 2015

REVISED COMPLETION DATE: JULY 20, 2015

TIME LAPSED: 32%

REMARKS: The submittal process continues. Demolition of existing duct bank was halted due to buried shoring left over from the original pump station construction. The demolition will resume once the contractor removes the shoring. Light fixtures in the stair ways are installed and fixture installation in the electrical room is underway.
PROJECT NO. 299
LAKE TAWAKONI WATER TREATMENT PLANT
CHLORINE DIOXIDE SYSTEM

CONTRACTOR: RED RIVER CONSTRUCTION CO.

CONTRACT DATE: JANUARY 24, 2013
NOTICE TO PROCEED DATE: MARCH 1, 2013
ORIGINAL COMPLETION DATE: SEPTEMBER 7, 2013
REVISED COMPLETION DATE: JANUARY 19, 2014

TIME LAPSED: 145%

REMARKS: All equipment is functioning properly and two additional items have been proposed for Change Order No. 3, which will be presented to the Board for consideration in June. The majority of the punchlist items are complete leaving a small amount of chemical pipe painting and approval of O&M manuals.

PROJECT NO. 301 TASK 1
ADMINISTRATION BUILDING STRUCTURAL REPAIRS,
BUILDING RENOVATIONS, AND BUILDING ADDITION

CONTRACTOR: MART, INC.

CONTRACT DATE: DECEMBER 19, 2013
NOTICE TO PROCEED DATE: FEBRUARY 5, 2014
COMPLETION DATE: APRIL 6, 2014
REVISED COMPLETION DATE: APRIL 27, 2014

TIME LAPSED: 134%

REMARKS: The contractor has completed the installation of the cut-off wall and concrete cap. All punchlist items and final cleanup items have also been completed. Currently waiting on the contractor to submit the project closeout paperwork and final pay request.

PROJECT NO. 312
LAKE TAWAKONI WATER TREATMENT PLANT
SLUDGE LAGOON IMPROVEMENTS

CONTRACTOR: CRESCENT Constructors, Inc.

CONTRACT DATE: JANUARY 23, 2014
NOTICE TO PROCEED DATE: FEBRUARY 10, 2014
COMPLETION DATE: SEPTEMBER 28, 2014

TIME LAPSED: 47%

REMARKS: The pump station foundation, walls, and deck have been poured. While laying out the lagoon, a conflict was discovered between the fiber optic line and the excavation adjacent to the lagoon berm, which is being made to improve drainage along the road. Black & Veatch reviewed and recommended relocating the fiber optic line. The excavation subcontractor also discovered a small wet area near the middle of the lagoon. The water was tested for metals and all results were below the...
maximum contamination limit. The contractor excavated the wet area and found tires and burned debris. Soil samples were taken, for toxicity characteristic leaching procedure testing, as a precaution. After evaluation and if appropriate, a change order will be prepared for consideration by the Board for disposal of the materials off-site.

**PROJECT NO. 314**  
FARMERSVILLE PUMP STATION  
PUMP NO. 2  

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**REMARKS:** The contractor continues the submittal process. The pump is not expected to arrive on site until October 2014.

**PROJECT NO. 318**  
WYLIE NO. 3 DELIVERY POINT METERING STATION UPGRADE  

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**REMARKS:** The contractor has achieved substantial completion by successfully installing the yard valves, the electrical items, and the meter vault items. The contractor is now restoring the site by seeding the areas disturbed.

**PROJECT NO. 320**  
WYLIE WATER TREATMENT PLANT II  
IMPROVEMENTS FOR BASIN NOS. 3 AND 4  

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| CHANGE ORDERS | 1 - $21,637.00  
2 - ($30,179.23)  
Time Ext.-16 Days |
| CURRENT CONTRACT AMOUNT | $5,438,493.77 |
| AMOUNT EARNED TO DATE | $2,463,529.08 |
| % CONTRACT AMOUNT EARNED | 45% |
| TIME LAPSED | 47% |

**REMARKS:** The entire floor of Basin No. 4 has been installed and support columns are being installed for the baffle wall as well as the settled water troughs. Several clarifier parts have been placed into the basin in preparation for installation. The contractor has begun demolition work in Basin No. 3. The excavation around the 120-inch manhole, for the drain valve vault, has been partially backfilled. Work is
progressing on the new stuffing boxes in the flocculation drive pit and on valves in the sludge drain building.

PROJECT NO. 323
WYLIE WATER TREATMENT PLANT III VARIABLE FREQUENCY DRIVES FOR WASHWATER PUMPS

CONTRACTOR: WHF ELECTRICAL CONTRACTORS, INC.
CONTRACT DATE: APRIL 24, 2014
NOTICE TO PROCEED DATE: MAY 5, 2014
COMPLETION DATE: JULY 4, 2015
TIME LAPSED: 4%

REMARKS: This contract was awarded at the March 2014 Board meeting. The preconstruction conference was held on May 5, 2014. The contractor is in the process of preparing submittals.

PROJECT NO. 222
ROWLETT CREEK RWVTP 2011 IMPROVEMENTS

CONTRACTOR: ARCHER WESTERN CONSTRUCTION, LLC
NOTICE TO PROCEED DATE: MAY 29, 2012
ORIGINAL COMPLETION DATE: AUGUST 22, 2013
REVISED COMPLETION DATE: DECEMBER 10, 2013
TIME LAPSED: 125%

REMARKS: All work is complete and record drawings have been submitted.

PROJECT NO. 223
PRAIRIE CREEK RELIEF SEWER CONTROL STRUCTURE FLOW METERING IMPROVEMENTS

CONTRACTOR: LEGACY CONTRACTING, LP
CONTRACT DATE: SEPTEMBER 19, 2013
NOTICE TO PROCEED DATE: NOVEMBER 12, 2013
COMPLETION DATE: JULY 10, 2014
TIME LAPSED: 83%

REMARKS: Contractor has completed construction of the electrical building, odor control pad, and driveway / parking area. Interior of vault has had surface preparation for installation of the coating system. Conduit duct bank has been installed between the electrical building and the vault.
PROJECT NO. 227A
UPPER WHITE ROCK CREEK PARALLEL FORCE MAIN
CONTRACTOR:  S.J. LOUIS CONSTRUCTION OF TX, LTD
CONTRACT DATE:  FEBRUARY 28, 2013
NOTICE TO PROCEED DATE:  MARCH 21, 2013
ORIGINAL COMPLETION DATE:  FEBRUARY 24, 2014
REVISED COMPLETION DATE:  APRIL 20, 2014
TIME LAPSED:  100%
REMARKS:  S.J. Louis continued the construction of the valve vault, installed the hot tap on the existing force main, and continued restoration.

PROJECT NO. 227B
UPPER WHITE ROCK CREEK LIFT STATION IMPROVEMENTS
CONTRACTOR:  ARCHER WESTERN CONSTRUCTION, LLC
CONTRACT DATE:  MARCH 28, 2013
NOTICE TO PROCEED DATE:  MAY 1, 2013
ORIGINAL COMPLETION DATE:  MAY 26, 2014
REVISED COMPLETION DATE:  SEPTEMBER 1, 2014
TIME LAPSED:  81%
REMARKS:  Archer Western installed the access hatch doors, began the odor control improvements, and poured back the jogging trail.

PROJECT NO. 228
COTTONWOOD CREEK OUTFALL SEWER IMPROVEMENTS
CONTRACTOR:  INSITUFORM TECHNOLOGIES, LLC
CONTRACT DATE:  NOVEMBER 15, 2012
NOTICE TO PROCEED DATE:  DECEMBER 12, 2012
COMPLETION DATE:  DECEMBER 17, 2013
TIME LAPSED:  145%
REMARKS:  Insituform continued manhole testing and restoration. There will be a time extension due to coordination of an alignment issue.
PROJECT NO. 234
ASAP GRAVITY INTERCEPTOR IMPROVEMENTS, SECTION 1

CONTRACTOR: REPIPE CONSTRUCTION, LLC

CONTRACT DATE: JUNE 28, 2012

NOTICE TO PROCEED DATE: AUGUST 20, 2012

ORIGINAL COMPLETION DATE: FEBRUARY 16, 2013

REVISED COMPLETION DATE: MAY 31, 2013

TIME LAPSED: 229%

REMARKS: Final payment was sent on May 12, 2014.

BID AMOUNT: $1,633,117.20

CHANGE ORDERS: 1 - $48,680.00
Time Ext.-40 Days
2 - (87,681.20)
Time Ext.-64 Days

CURRENT CONTRACT AMOUNT: $1,594,116.00

AMOUNT EARNED TO DATE: $1,594,116.00

% CONTRACT AMOUNT EARNED: 100%

PROJECT NO. 245
UPPER ROWLETT CREEK LIFT STATION
FLOW METERING IMPROVEMENTS

CONTRACTOR: ARCHER WESTERN CONSTRUCTION, LLC

CONTRACT DATE: SEPTEMBER 19, 2013

NOTICE TO PROCEED DATE: OCTOBER 22, 2013

COMPLETION DATE: SEPTEMBER 17, 2014

TIME LAPSED: 67%

REMARKS: Contractor has completed tie-ins to the lift station wetwell and placed the flowable fill up to the top of pipe elevation. Interior stairs and hatches have been installed. Precast sewer manhole has been installed and grouted in preparation for making tie-in to redirect flow through new magnetic flow meter in early June.

BID AMOUNT: $2,070,000.00

CHANGE ORDERS: NONE

CURRENT CONTRACT AMOUNT: $2,070,000.00

AMOUNT EARNED TO DATE: $1,653,834.83

% CONTRACT AMOUNT EARNED: 80%

PROJECT NO. 254
SOUTH MESQUITE RWWT
ELECTRICAL IMPROVEMENTS

CONTRACTOR: ACME ELECTRIC COMPANY

CONTRACT DATE: JANUARY 24, 2013

NOTICE TO PROCEED DATE: JANUARY 29, 2013

COMPLETION DATE: FEBRUARY 28, 2014

TIME LAPSED: 122%

REMARKS: Duct banks at LCS 1A and 1B is complete. The installation of control wiring between the generator and switchgear continues. Overhead pole line work is complete, pending a final walkthrough inspection.

BID AMOUNT: $4,664,000.00

CHANGE ORDERS: NONE

CURRENT CONTRACT AMOUNT: $4,664,000.00

AMOUNT EARNED TO DATE: $4,287,072.64

% CONTRACT AMOUNT EARNED: 92%
PROJECT NO. 255E
FORNEY MUSTANG CREEK INTERCEPTOR SYSTEM
FORNEY PARALLEL INTERCEPTOR

CONTRACTOR: S.J. LOUIS CONSTRUCTION
OF TEXAS, LTD.

CONTRACT DATE: APRIL 25, 2013
NOTICE TO PROCEED: MAY 6, 2013
COMPLETION DATE: MARCH 8, 2014
REVISED COMPLETION DATE: MAY 20, 2014
TIME LAPSED: 95%

REMARKS: Final payment was sent on May 12, 2014.

PROJECT NO. 255F
FORNEY MUSTANG CREEK INTERCEPTOR SYSTEM
FORNEY LIFT STATION IMPROVEMENTS

CONTRACTOR: ARCHER WESTERN CONSTRUCTION, LLC

CONTRACT DATE: AUGUST 22, 2013
NOTICE TO PROCEED: SEPTEMBER 9, 2013
COMPLETION DATE: AUGUST 5, 2014
TIME LAPSED: 80%

REMARKS: Archer Western has installed the FRP doors, air handling units, supply duct, and positive pressure unit for the electrical building. They have painted the inside walls for the electrical building. Their electrical subcontractor installed the panelboard, VFDs, lighting panel, PLC, and lighting for the electrical building. They have installed cable tray and pulled and terminated the main power feeders for the electrical building.

PROJECT NO. 270
SOUTH MESQUITE CREEK REGIONAL WASTEWATER TREATMENT PLANT AERATION SYSTEM IMPROVEMENTS, PHASE 1

CONTRACTOR: GRACON CONSTRUCTION

CONTRACT DATE: SEPTEMBER 19, 2013
NOTICE TO PROCEED: OCTOBER 15, 2013
COMPLETION DATE: FEBRUARY 7, 2015
TIME LAPSED: 48%

REMARKS: Gracon Construction's electrical subcontractor is installing the medium voltage duct banks to the electrical building and the duct banks to the aeration basins.
PROJECT NO. 278
WILSON CREEK GRAVITY INTERCEPTOR IMPROVEMENTS
PHASE 1

CONTRACTOR: INSITUFORM TECHNOLOGIES, LLC

CONTRACT DATE: AUGUST 22, 2013

NOTICE TO PROCEED DATE: SEPTEMBER 11, 2013

COMPLETION DATE: JUNE 8, 2014

REVISED COMPLETION DATE: NOVEMBER 5, 2014

TIME LAPSED: 62%

REMARKS: Insituform continued the submittal process.

BID AMOUNT: $3,043,905.10

CHANGE ORDERS: 1 - $61,124.08
Time Ext.-150 Days

CURRENT CONTRACT AMOUNT: $3,105,029.18

AMOUNT EARNED TO DATE: $0.00

% CONTRACT AMOUNT EARNED: 0%

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PROJECT NO. 279
UPPER EAST FORK INTERCEPTOR SYSTEM
FUGITIVE EMISSIONS CONTROL

CONTRACTOR: ARCHER WESTERN CONSTRUCTION, LLC

CONTRACT DATE: DECEMBER 19, 2013

NOTICE TO PROCEED DATE: JANUARY 13, 2014

COMPLETION DATE: DECEMBER 9, 2014

TIME LAPSED: 42%

REMARKS: Contractor continued to work on equipment submittals.

BID AMOUNT: $1,684,000.00

CHANGE ORDERS: NONE

CURRENT CONTRACT AMOUNT: $1,684,000.00

AMOUNT EARNED TO DATE: $111,260.00

% CONTRACT AMOUNT EARNED: 7%

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PROJECT NO. 288
SOUTH MESQUITE CREEK RWWT SOLIDS
BUILDING ODOR CONTROL IMPROVEMENTS

CONTRACTOR: ASSOCIATED CONSTRUCTION PARTNERS

CONTRACT DATE: MAY 23, 2013

NOTICE TO PROCEED: JUNE 19, 2012

COMPLETION DATE: JUNE 14, 2014

REVISED COMPLETION DATE: SEPTEMBER 20, 2014

TIME LAPSED: 76%

REMARKS: Associated Construction Partners (ACP) finished installation of the wear plate in Sludge Loading Bay Area No. 4. They installed the check valves for the belt filter press area drains. ACP is installing the new makeup air unit, odor control equipment, and chemical tanks. Electrical subcontractor is installing the duct banks, above ground conduits, and wire.
PROJECT NO. 294
SOUTH MESQUITE CREEK REGIONAL WASTEWATER TREATMENT PLANT OPERATIONS BUILDING
CONTRACTOR: BIG SKY CONSTRUCTION CO.
CONTRACT DATE: DECEMBER 19, 2013
NOTICE TO PROCEED: JANUARY 22, 2014
FINAL COMPLETION DATE: DECEMBER 18, 2014
TIME LAPSED: 39%
BID AMOUNT: $1,439,000.34
CHANGE ORDERS: NONE
CURRENT CONTRACT AMOUNT: $1,439,000.34
AMOUNT EarnED TO DATE: $700,138.00
CONTRACT AMOUNT EarnED: 49%
REMARKS: Big Sky formed and poured the side parking lot. They installed the metal roof trusses, and exterior metal framing with the sheathing. Big Sky is installing the CMU wall, roofing system, and interior metal framing. Their electrical subcontractor is installing the ductbanks.

PROJECT NO. 300
ASAP GRAVITY INTERCEPTOR IMPROVEMENTS, SECTION 2 AND 3
CONTRACTOR: INSITUFORM TECHNOLOGIES, LLC
CONTRACT DATE: OCTOBER 17, 2013
NOTICE TO PROCEED DATE: NOVEMBER 19, 2013
COMPLETION DATE: JULY 17, 2014
TIME LAPSED: 80%
BID AMOUNT: $3,272,042.25
CHANGE ORDERS: NONE
CURRENT CONTRACT AMOUNT: $3,272,042.25
AMOUNT EarnED TO DATE: $1,096,113.55
% CONTRACT AMOUNT EarnED: 33%
REMARKS: Insituform continued the CCTV and cleaning of the interceptor. Insituform installed 2,553 linear feet of 27-inch cured-in-place pipe, 798 linear feet of 33-inch cured-in-place pipe, and continued bypass pumping.

PROJECT NO. 311
UPPER EAST FORK INTERCEPTOR SYSTEM MANHOLE IMPROVEMENTS
CONTRACTOR: FUQUAY, INC.
CONTRACT DATE: DECEMBER 19, 2013
NOTICE TO PROCEED DATE: JANUARY 14, 2014
COMPLETION DATE: JULY 13, 2014
TIME LAPSED: 76%
BID AMOUNT: $995,830.00
CHANGE ORDERS: NONE
CURRENT CONTRACT AMOUNT: $995,830.00
AMOUNT EarnED TO DATE: $196,638.40
% CONTRACT AMOUNT EarnED: 20%
REMARKS: Fuquay completed coating of 13 manholes on the West Rowlett Creek Trunk Sewer Sections 1 and 2, and seven manholes on the Indian Creek Interceptor.
PROJECT NO. 233  
121 REGIONAL DISPOSAL FACILITY  
FLEET MAINTENANCE WELD SHOP  
BID AMOUNT: $830,214.81  
CHANGE ORDERS: NONE  
CURRENT CONTRACT AMOUNT: $830,214.81  
AMOUNT EARNED TO DATE: $246,813.00  
CONTRACT AMOUNT EARNED: 30%  
CONTRACTOR: TEGRITY CONTRACTORS, INC.  
DATE: JULY 25, 2013  
NOTICE TO PROCEED: AUGUST 28, 2013  
COMPLETION DATE: MAY 25, 2014  
TIME LAPSED: 100%  
REMARKS: All submittals, except the pre-engineered building submittal, have been approved. The engineer has revised the design to accommodate the fire suppression system and has submitted it to the City of Melissa for approval.

PROJECT NO. 322  
121 REGIONAL DISPOSAL FACILITY  
SCALE HOUSE MODIFICATIONS  
BID AMOUNT: $100,016.00  
CHANGE ORDERS: 1 - $11,273.52  
Time Ext. - 117 Days  
CURRENT CONTRACT AMOUNT: $111,289.52  
AMOUNT EARNED TO DATE: $50,000.00  
CONTRACT AMOUNT EARNED: 45%  
CONTRACTOR: ROBIN L. BROWN, INC.  
DATE: DECEMBER 19, 2013  
NOTICE TO PROCEED: JANUARY 20, 2014  
COMPLETION DATE: MARCH 2, 2014  
REVISED COMPLETION DATE: JUNE 27, 2014  
TIME LAPSED: 79%  
REMARKS: Construction of the north scale house wall extension is complete. Demolition of the south scale house wall is complete and construction of the wall extension is underway.

PROJECT NO. 331  
CUSTER ROAD TRANSFER STATION  
TIPPING FLOOR IMPROVEMENTS  
BID AMOUNT: $526,390.00  
CHANGE ORDERS: NONE  
CURRENT CONTRACT AMOUNT: $526,390.00  
AMOUNT EARNED TO DATE: $101,784.00  
CONTRACT AMOUNT EARNED: 19%  
CONTRACTOR: NORTH TEXAS CONTRACTING, INC.  
DATE: FEBRUARY 27, 2014  
NOTICE TO PROCEED: MARCH 17, 2014  
COMPLETION DATE: OCTOBER 13, 2014  
TIME LAPSED: 33%  
REMARKS: Construction of the tipping floor is complete on the east side of the building. Demolition of the west tipping floor will begin in early June 2014.
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