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NORTH TEXAS MUNICIPAL WATER DISTRICT
501 E. Brown Street • Wylie, Texas 75098
(972) 442-5405 – Phone • (972) 295-6440 – Fax

WASTEWATER COMMITTEE MEETING MINUTES
APRIL 27, 2022

The Presiding Officer will be present at the meeting location, the NTMWD Administrative Offices, 501 E. Brown Street, Wylie, Texas 75098, with two-way video and audio communication between Board members participating by videoconference, establishing a quorum. The public may attend the meeting in person at the meeting location. Audio and video of Board members participating by videoconference will be visible to members of the public in attendance at the meeting location. The meeting will be recorded, and the audio recording will be available on the NTMWD website after the meeting.

Members of the public wishing to listen to live audio from the meeting may do so by calling in at (469) 210-7159 or toll free (844) 621-3956 and entering the following access code: 928 587 040. Please note this line will not provide for two-way communication and public comment at the meeting must be made in person at the meeting location.

I. CALL TO ORDER

Chairman George Crump served as the Presiding Officer and called the meeting of the North Texas Municipal Water District (NTMWD) Wastewater Committee to order at 1:00 p.m. on Wednesday, April 27, 2022. General instructions were provided to attendees. Any reference to unanimous votes refers to a unanimous vote of the Committee members present.

The following Wastewater Committee members were present; therefore, a quorum was present.

	Wastewater Committee Members	Attendance
1	George Crump, Chair	Present
2	Robert Appolito	Absent
3	Marvin Fuller	Remote
4	John Murphy	Remote
5	Lynn Shuyler	Remote (video on 1:15 p.m.)
6	Jody Sutherland	Absent
7	Larry Thompson	Remote

Members of the Executive Committee were present as well as other Board members. Executive Director Jenna Covington and other members of the NTMWD management team were in attendance.

The following consultants participated by videoconference:

- Lauren Kalisek – Lloyd Gosselink Rochelle & Townsend
- Lewis Isaacks – Saunders Walsh & Beard
- Tom Gooch – Freese and Nichols, Inc.

II. PUBLIC COMMENTS

Prior to the start of the meeting, speakers must complete and submit a “Public Comment Registration Form.” During the public comment portion of the meeting, speakers will be recognized by name and asked to provide their comments. The time limit is three (3) minutes per speaker, not to exceed a total of thirty (30) minutes for all speakers. The Committee may not discuss these items but may respond with factual or policy information.

There were no requests for public comment.

III. OPENING REMARKS

- A. Chairman/Executive Director/Committee Champion Status Report concerning legislation and regulatory matters, budgets, current projects and ongoing Wastewater System programs of the District

Deputy Director Billy George reviewed the following:

- Board Consent Agenda Item No. 22-04-04 authorizing an engineering services agreement for design of the primary clarifier and blower improvements at the Stewart Creek Wastewater Treatment Plant. This item was previously discussed by the Wastewater Committee at the February meeting.
- The NTMWD Operations Challenge Team “Centrifugal Force” won the Manager’s Trophy at the state competition during the Texas Water Conference. They will be recognized at the next Board meeting and will compete in the national competition.
- On next month’s Board agenda there will be a multi-jurisdictional pretreatment agreement with the City of Richardson.

Executive Director Jenna Covington announced that today is National Administrative Professional’s Day and recognized District staff members who are instrumental in supporting the Committees and the Board of Directors.

IV. ACTION ITEMS

- A. Consider Approval of Wastewater Committee meeting minutes – February 23, 2022

Upon a motion by Director Marvin Fuller and a second by Director George Crump, the Wastewater Committee voted unanimously to approve the meeting minutes for February 23, 2022.

[Director Lynn Shuyler was not present for the vote.]

B. Authorize execution of an engineering services agreement for the Muddy Creek Wastewater Treatment Plant (WWTP) Peak Flow Storage and Expansion project - Administrative Memorandum No. 5830

- Consider recommendation on authorizing the Executive Director to execute an engineering services agreement with Garver, LLC in the amount of \$5,283,500 for final engineering design for Project No. 310-0592-21, Muddy Creek WWTP Peak Flow Storage and Expansion

Assistant Deputy Mark Simon presented this item. He advised this item is to recommend to the Board of Directors to authorize an engineering services agreement for final design of the Muddy Creek Wastewater Treatment Plant peak flow storage and expansion project.

Mr. Simon reviewed that the Muddy Creek Wastewater Treatment Plant services the cities of Murphy and Wylie. It was originally built in 2001 with a capacity of 5 million gallons per day (MGD) annual average daily flow and a peak 2-hour flow of 15 MGD. It was later expanded to 10 MGD annual average daily flow and 30 MGD peak 2-hour flow.

Mr. Simon advised that master planning efforts identified the need improve the reliability of the existing plant, provide peak flow storage, and expand the capacity to 12.5 MGD annual average daily flow and 37.5 MGD peak 2-hour flow. Two construction contracts were recommended during the preliminary engineering. A site map was reviewed.

Mr. Simon advised that the Peak Flow improvements will include influent pumping, headworks, and peak flow storage; replacement of filters and UV; and Operations Building improvements. The planning level construction cost for this project is \$65.2 million. The expansion to 12.5 MGD portion of the project will include primary and secondary treatment facilities, solids handling facilities, and other supporting improvements. The planning level construction cost is \$30.7 million.

Mr. Simon advised that staff is recommending Garver, LLC for this final engineering design for the amount of \$5,283,500.

In response to a Director's question regarding the cost to expand an additional 2.5 MGD, Mr. Simon advised that a new effluent pump station is included as well as additional filtration capacity. He noted that selection of an engineering firm includes evaluating the current workload of the engineering firms and other projects of the District. He added that this overall project is adding significant elements to the plant.

In response to a Director's question regarding the cost of this project, Executive Director Covington advised that strategic plans and costs were provided to the affected City Managers and Finance departments. She added that next Monday there will be a City Managers' Breakfast and this project will be discussed at that time.

Upon a motion by Director Marvin Fuller and a second by Director Lynn Shuyler, the Wastewater Committee voted unanimously to recommend approval to the Board of Directors.

V. DISCUSSION ITEMS

A. Review amendment to the agreement for reclaimed water with B.C. Golf Limited

Assistant Deputy R.J. Muraski presented this item. He advised the Buffalo Creek Golf Club has been purchasing reclaimed water from the Buffalo Creek Wastewater Treatment Plant for its use since 1991. Amendments to their agreement since that time were reviewed. Mr. Muraski noted that the Plant is scheduled for decommissioning between 2028 and 2030.

This requested extension is for eight (8) years and will provide Buffalo Creek Golf the ability to plan for irrigation sources when the Plant is decommissioned. No changes or conditions to the terms are included in this amendment.

Mr. Muraski advised this amendment will be on the May Board of Directors meeting agenda. In response to questions from a Director in attendance, there was a brief discussion as to the future supply of water for this golf course.

B. Review Master Planning results for Wilson Creek and Floyd Branch Regional Wastewater Treatment Plants

Shela Chowdhury, Assistant Planning Program Manager, presented this item. She reviewed that in 2019 the Board of Directors authorized the development of wastewater treatment plant master plans. The projects were to assess existing facilities at Wilson Creek and Floyd Branch Regional Wastewater Treatment Plants.

Components of the agreements included:

- Condition Assessment of all existing facilities and supporting facilities
- Evaluate process and hydraulic limitations with upcoming facilities in mind
- Perform Electrical and SCADA evaluation for each facility
- Develop site master plan
- Develop scope and schedule of project list based on assessment, priority, drivers and triggers

Ms. Chowdhury advised that the Master Plan for Wilson Creek recommended projects for the next 20 years as follows:

- By 2025: Primary Clarifier, UV & Centrifuge additions \$61.2M (High priority)

- By 2028: Secondary Clarifier & Electrical Improvements for \$44.9M (Medium Priority)
- By 2028: Building Improvements for \$10.8M (Medium Priority)

Future improvements include a Tertiary system at the Plant 2 Blower Building, Bio-Contact basin and others. These would be in service by 2031 with a construction estimate of \$49 million.

The Master Plan for Floyd Branch recommended the following projects over 20 years:

- By 2026: UV Improvements for \$3M (High priority)
- By 2026: Peak Flow, Filter and Operations Building for \$26.13M (High priority)
- By 2027: Primary Clarifier & Grit Removal for \$15M pending Richardson project (Medium priority)

Maps for each Plant were provided as well as previous major improvements and permitted flows.

C. Discuss Floyd Branch Regional Wastewater Treatment Plant Peak Flow Management and Improvements

Mark Simon presented this item. He advised the Floyd Branch Regional Wastewater Treatment Plant Peak Flow Management and Improvements project is a Master Plan recommendation that was identified as an immediate need. The preliminary and final design will be done as one action and will be on the May Board of Directors meeting agenda.

Mr. Simon advised that the Floyd Branch Regional Wastewater Treatment Plant serves Richardson and was originally built in the 1950s. The plant capacity is currently 4.75 MGD annual average daily flow and 10 MGD peak 2-hour flow.

Mr. Simon advised that the first design phase of this project is to address reliability of outdated UV equipment, filter improvements, and provide peak flow storage needed to store wet weather flows above the rated 10 MGD capacity. A new operations building is also recommended to provide adequate facilities for staff and SCADA equipment as the existing building is beyond its useful life.

Details of this project were reviewed as follows:

- Replacement UV system no longer supported by the manufacturer
- New Operations Building
- Influent lift station, screening, and peak flow storage tank
- Replacement of traveling bridge filters with cloth media filters
- Demolition of abandoned facilities

Mr. Simon advised that the UV system will be designed and bid as an early package with a planning level cost estimate of \$4 million. The remaining items will be delivered under a separate construction package with a planning level construction cost estimate is \$30 million.

In response to a Director's question, staff responded that this plant was put into service in 2012, and that ten (10) years is the normal life-cycle for this type of equipment. Executive Director Covington added that the current UV equipment was a unique design at the time however the manufacturer has discontinued making the replacement parts available.

D. Discuss residential development impacts to Sister Grove Regional Water Resource Recovery Facility Outfall Pipeline

Mark Simon presented this item. He reviewed that the CMAR amendments related to the Sister Grove Regional Water Resource Recovery Facility Outfall Pipeline were approved in late 2020. At the time, the District had not yet secured the permanent easement and development plans for the property were not known. After alignment had been established a tract of rural property just west of FM 75 near the Town of New Hope was purchased by a developer. The District acquired a 120-ft permanent easement within the developer's property, but the property developer was not agreeable to a temporary easement for the installation of the outfall pipeline. The developer started utility installation in the spring of 2021.

Mr. Simon advised that the District has worked with the developer from January 2021 through January 2022 to negotiate a temporary construction easement. During this time development of the site continued at a rapid pace, including installation of buried utility infrastructure and roadways. Construction plans show a temporary easement for the CMAR use that facilitates open-cut construction, soil removal and placement. Due to progress of the development, a restricted temporary easement would no longer provide the same benefits due to limited use and would expose the District to damages. An aerial photograph of the site was provided that provided a view of the area planned for the pipeline.

Without the unrestricted use of a temporary easement, the CMAR will incur additional costs due to:

- Changes in construction methods
- Replacement and restoration of utilities already installed
- Removal and replacement of pavement crossing our easement

Mr. Simon advised that the current cost estimate from the CMAR for changes in construction method resulting from not have a temporary construction easement is \$2.1 million. The CMAR has estimated the additional costs that will be incurred due to progress of the development is \$5.6 million. Committed funds (allowances and unused ROW program funds) of \$2.6 million can be applied to reduce the cost of this amendment to the Guaranteed Maximum Price. Mr. Simon advised that negotiations are ongoing between the District, CMAR, Developer and the City of Princeton for the final cost. He noted that an Amendment will be presented to the Board in May 2022 for approximately \$5.1 million of additional funding.

In response to a Director's question, Attorney Lewis Isaacks advised that he is not aware of another project with similar circumstances. Mr. Simon noted that Phase

IV of the Sister Grove project will be in the same area and will require tunneling rather than an open-cut installation.

In response to a Director's question, Assistant Deputy Muraski advised that the District shares its planned projects with affected cities on a multi-year basis. Meetings with Princeton are held quarterly.

- E. Opportunity for Committee members to provide feedback on Wastewater Committee meeting or request potential future agenda items

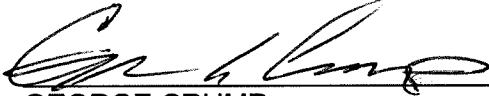
Director Chip Imrie, who attended the meeting, advised the Committee Members that the Buffalo Creek Golf Club owners are aware of the timeline for the effluent water becoming unavailable and are working on other sources.

Director Marvin Fuller commented that going forward financing for wastewater projects should be carefully considered.

VI. ADJOURNMENT

There being no further business, the Wastewater Committee meeting was adjourned at 1:55 p.m.

APPROVED:



GEORGE CRUMP
Chairman