HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 50

NOTICE

In accordance with Chapter 551, Texas Government Code, and Section 49.063, Texas Water Code, both as amended, take notice that the Board of Directors of Harris County Municipal Utility District No. 50 will meet in regular session for Operations and Engineering matters, open to the public, at 12900 Crosby Lynchburg Road, Crosby, Texas, at **6:00 p.m.** on **TUESDAY, March 3, 2020**. At such meeting, the Board will consider the following:

1. Public Comments;
2. Discuss developer reimbursement with representatives of Holcomb Properties and take necessary action;
3. Discuss Cybersecurity training;
4. Receive Lago Bello MUD's report and take necessary action;
5. Approve single audit letter for filing with Clearinghouse;
6. Approve minutes of a meeting held on February 4, 2020;
7. Review Engineer's Report, including, but not limited to approval of plans and specifications, authorize advertisement for bids and/or solicitation of bids, award contracts, approve proposals, approve pay estimates and/or change orders for District projects, and approve capacity commitments;
8. Review Operations Report and authorize repairs;
9. Review Identity Theft Program (aka Red Flag Program) and authorize necessary action, if needed;
10. Discuss District matters;

and any other matters as may properly come before it.

(DISTRICT SEAL)

Kathleen Ellison

NORTON ROSE FULBRIGHT US LLP
Attorneys for the District

If, during the course of the meeting covered by this Notice, the Board should determine that a closed or executive session of the Board should be held or is required in relation to any agenda item included in this Notice, then such closed or executive meeting or session, as authorized by the Texas Open Meetings Act, will be held by the Board at the date, hour, and place given in this Notice concerning any and all subjects for any and all purposes permitted by Sections 551.071-551.084 of the Texas Government Code and the Texas Open Meetings Act, including, but not limited to, Section 551.071 - for the purpose of a private consultation with the Board's attorney on any or all subjects or matters authorized by law.

CERTIFICATE OF POSTING NOTICE
OF MEETING OF BOARD OF DIRECTORS

THE STATE OF TEXAS §
COUNTY OF HARRIS §
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 50 §

I hereby certify that on February 26, 2020 I posted the Notice of a Regular Meeting of the Board of Directors of Municipal Utility District No. 50, a true copy of which is attached hereto, at a place convenient to the public at 12900 Crosby Lynchburg Road, Barrett Station, Texas 77532 no less than 72 hours prior to the meeting date and time, as required by law.

EXECUTED this 26th day of February, 2020.

MINUTES OF MEETING OF BOARD OF DIRECTORS
MARCH 3, 2020

THE STATE OF TEXAS §
COUNTY OF HARRIS §
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 50 §

The Board of Directors (the "*Board*") of Harris County Municipal Utility District No. 50 (the "*District*") met in regular session for Operation and Engineering matters, open to the public, at 12900 Crosby Lynchburg Road, Barrett Station, Texas, at 6:00 p.m. on March 3, 2020, whereupon the roll was called of the Directors, to-wit:

Martin Lemond, President
Andrew Sonnier, Vice President
Daryl Johnson, Treasurer
Alice Dangerfield, Secretary
Elyard David, Assistant Secretary

All members of the Board were present, except President Lemond, thus constituting a quorum. Also attending all or parts of the meeting were Ms. Dara Eng, District Manager; Mr. John Hall, District Advisor; Mr. Reggie Wilson and Jane Maher of Norton Rose Fulbright US LLP ("NRF"), attorneys for the District; Ms. Kandy Pfeffer of ETI Bookkeeping Services ("*ETI*"), bookkeeper for the District; Ms. Amber Hurd, of Cobb Fendley & Associates, Inc. ("Cobb Fendley"), engineer for the District; Mr. John Montgomery of Municipal Operations & Consulting, operator for the District; Ms. Elizabeth Harris of Environmental Allies, landscaper for Kodiak Crossing; and Ms. Megan Crutcher of Odyssey Engineering Group and Mr. David Glunt of Gidco GP, LLP, engineer and investor, respectively, for developers of Lago Bello Municipal Utility District No. 1 ("Lago Bello").

The meeting was called to order, and in accordance with notice posted pursuant to law, copies of certificates of posting of which are attached hereto as *Exhibit A*, the following business was transacted:

1. **Public comments**. The were no public comments.

2. **Discuss developer reimbursement with representative of Holcomb Properties and take necessary actions.** Director Sonnier recognized Ms. Hurd, who recommended the Board approve the start of the feasibility study after a payment was made by Holcomb Properties. Upon motion by Director Dangerfield, seconded by Director David, after full discussion and the question being put to the Board, the Board voted unanimously to authorize the feasibility study for Holcomb Properties.

3. **Discuss Cybersecurity training.** Mr. Wilson presented to and reviewed with the Board a memo regarding cybersecurity training, a copy of which is attached hereto as *Exhibit B*. He informed the Board that House Bill 3834 requires that all individuals of the District who have access to customers' personal information, must complete the cybersecurity training. Mr. Wilson recommended the Board move forward with selecting a Cybersecurity training program to be completed by all employees and Directors of the District by June 14, 2020.

4. **Receive Lago Bello MUD's report and take necessary action.** Ms. Hurd presented to the Board the Feasibility Study for Lago Bello, a copy which is attached hereto as *Exhibit C*. After considering the items needed on the proposed project, she summarized that in order to service Phase 1 of Lago Bello, the District would need to upgrade the water system

with 800 gpm booster pumps, to receive approval from the Harris Galveston Subsidence District ("HGSD") for the well supply and to meet the Texas Commission on Environmental Quality ("TCEQ") 85% rule exception for elevated storage tank capacity. She reported that the needed upgrades would cost a total of $4,000,000.00, which equates to $10,000.00 per connection. Discussion ensued.

Upon motion by Director Johnson, seconded by Director Dangerfield, after full discussion and the question being put to the Board, the Board voted unanimously to authorize Mr. Wilson to negotiate with Lago Bello regarding the Feasibility offer.

5. **Approve single audit letter for filing with Clearinghouse.** Mr. Wilson reported that the approval was completed at the last meeting.

6. **Approve Minutes from February 4, 2020.** The Board reviewed the minutes of the meeting held on February 4, 2020, a copy of which was previously distributed to the Board.

Upon motion by Director Johnson, seconded by Director David, after full discussion and the question being put to the Board, the Board voted unanimously to approve to minutes of February 4, 2020, as presented.

7. **Review and approve Engineer's Report and take such other action that may be necessary for District projects.** Director Sonnier recognized Ms. Hurd, who presented to and reviewed with the Board for approval of the Engineer's Report, a copy of which is attached hereto as *Exhibit D*.

Construction Projects:

Wastewater Treatment Plant No 2 – Ms. Hurd reported that Black Castle's Final Pay Application No. 12 in the amount of $89,370.62 was attached and already approved at the previous meeting.

2016 Water Plant Improvements – Ms. Hurd stated the contractors are nearing completion of major work items at Water Plant 2 and will move to Water Plant 2 in mid-March. Ms. Hurd recommended the approval of Pay Estimate No. 5 in the amount of $89,219.50. Upon motion by Director David, seconded by Director Johnson, after full discussion and the question being put to the Board, the Board voted unanimously to approve Pay Estimate No. 5 in the amount of $89,219.50.

Development Projects:

Barrett Station – Ms. Hurd provided a utility commitment letter for two homes at 12418 Judge Street and reported that the lot is in process for replatting. Ms. Hurd recommended the Board approve the utility commitment letter.

Upon motion by Director Sonnier, seconded by Director David, after full discussion and the question being put to the Board, the Board voted unanimously to approve the utility commitment letter for 12418 Judge Street.

Kodiak Crossing Section 1 – Ms. Hurd reported the District's consultants are working with the District's auditor on the developer reimbursement audit.

Kodiak Crossing Section 4 – Ms. Hurd stated the contractor is working on a roadway subgrade.

Pendleton Development – Ms. Hurd informed the Board that the Sleep Inn plat recordation is complete and that Cobb Fendley is waiting on the approved plans from Harris County.

Upon motion by Director Johnson, seconded by Director Dangerfield, after full discussion and the question being put to the Board, the Board voted unanimously to approve the Engineer's Report.

8. **Review Operations Report and authorize repairs.** Mr. Montgomery presented to and reviewed with the Board the Operation's Report, a copy which is attached hereto as *Exhibit E*. He reported that the District's water accountability, with leaks and flushing, were at 79%. He stated that the equipment for locating leaks has been received and that seven minor leaks have been repaired.

Mr. Montgomery reported on issues at Wastewater Plant 1. He stated that gear box 4 is out of service. He quoted that the cost to repair the gear box to be no more than $6,000.00. He recommended that the Board approve the repair.

Upon motion by Director Johnson, seconded by Director David, after full discussion and the question being put to the Board, the Board voted unanimously to approve to repair of gear box 4 at Wastewater Plant 1 at a price not to exceed $6,000.00.

Upon motion by Director David, seconded by Director Dangerfield, after full discussion and the question being put to the Board, the Board voted unanimously to approve the Operations Report.

9. **Review Identity Theft Program and authorize necessary action, if needed.** Mr. Montgomery presented the Annual Red Flag Policy report, which requires all employees with access to customer accounts to sign a copy, which is attached hereto as *Exhibit F*. Ms. Eng stated the purpose of the policy is to ensure that the District's employees have been trained in collecting, handling and verifying customer information. Ms. Eng recommended the Board approve the required Red Flag Policy to be put into place and signed each year.

Upon motion by Director Johnson, seconded by Director David, after full discussion and the question being put to the Board, the Board voted unanimously to approve to approve to Red Flag Policy to be distributed and signed annually.

10. **Discuss District Matters.** Ms. Eng presented to the Board a report for District Matters, a copy of which is attached hereto as *Exhibit G*. Ms. Eng reviewed a timeline of events, which lists projects, issues and concerns occurring within the District. Ms. Eng discussed the penalty and extra meter request from Mr. John Windfont. Ms. Eng reminded the Board that an extra meter is not permitted due to the lot not being platted to serve more than one trailer. The Board discussed the customer's dispute on the penalty. The customer disputes the penalty claiming that the water lines existed before he purchased the property. Discussion ensued. Upon motion by Director Johnson, seconded by Director David, after full discussion and the question being put to the Board, the Board voted unanimously to approve that Mr. John Windfont receive a multiplier on the water account servicing 328 Reuben White and to offer a payment plan to pay off the $1,000.00 penalty adjusted to the account.

Director Sonnier recognized Ms. Harris who provided a report of the landscaping work at Kodiak Crossing's retainage, a copy which is attached hereto as *Exhibit H*. No action was taken.

THERE BEING NO FURTHER BUSINESS TO COME BEFORE THE BOARD, the meeting was adjourned.

* * *

The above and foregoing minutes were passed and approved by the Board of Directors on April 7, 2020.

President, Board of Directors

ATTEST:

Secretary, Board of Directors

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 50

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and any other matters as may properly come before it.

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 50

Kathleen Ellson

NORTON ROSE FULBRIGHT US LLP
Attorneys for the District

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environmental allies

Harris County MUD 50 Kodiak Crossing HOA
February Work – March 2020 Meeting

SWQ Pond

18 feb. 2020 3:10:40 p. m.
330 American Black Bear Drive
Crosby
Harris County
Texas

SWQ Pond

18 feb. 2020 3:14:23 p. m.
306 American Black Bear Drive
Crosby
Harris County
Texas

SWQ Pond

18 feb. 2020 3:09:57 p. m.
13819 Kodiak Brown Bear Street
Crosby
Harris County
Texas

Detention Basin

Detention Basin

HARRIS COUNTY MUD 50

LAGO BELLO MUD
PHASE 1

FEASIBILITY STUDY

CobbFendley Project No. 1612-043-01

MARCH 2020

3/2/2020

STATE OF TEXAS
AMBER R. HURD
94679
LICENSED PROFESSIONAL ENGINEER

Submitted By:

CobbFendley

TBPE Firm Registration No. 274 | TBPLS Firm Registration No. 100467

Construction Management ▪ Geographic Information Systems ▪ Hydraulics and Hydrology ▪ Land Development
Public Works ▪ Right-of-Way Acquisition ▪ Site Development ▪ Subsurface Utility Engineering
Surveying ▪ Telecommunications ▪ Transportation ▪ Utility Coordination and Design

13430 Northwest Freeway, Suite 1100 | Houston, Texas 77040 | 713.462.3242 | fax 713.462.3262 | www.cobbfendley.com

FEASIBILITY STUDY
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT No. 50
LAGO BELLO

1.0 INTRODUCTION

This feasibility study was authorized by the Board of Directors of Harris County Municipal Utility District No. 50 (HCMUD 50) February 11th, 2020. The request for service was made by Lago Bello MUD. The purpose of this study is to determine the feasibility of serving Lago Bello Phase 1, a proposed single family 1,353-acre development, located south and east of the HCMUD 50 boundary. Phase 1 of the proposed development is planned to have 400 homes, on 150-acres, resulting in 400 water connections and 400 equivalent single-family connections (ESFC) of sanitary connections.

This Study will consider:

1. Capacity of water and wastewater treatment facilities to serve proposed development.
2. Capacity of existing water lines and sanitary sewers to serve proposed development.
3. Cost of accessing existing facilities and upgrading existing facilities if projected capacity is not available.
4. Financial impact of proposed development.

Capacity will be analyzed in terms of HCMUD 50's existing connection count plus all current committed utility capacity reservations.

2.0 LOCATION AND FEATURES

Lago Bello is a 1,353-acre development bounded on the north by FM 1942, on the east by Sralla Road, on the south by Barbers Hill Road, and on the west by Eagleton Lane and Crosby-Lynchburg Road. Phase 1 of the proposed development is anticipated to be located south of Farm to Market 1942 Road between Eagleton Lane and Sralla Road, directly east and south of HCMUD 50. See attached preliminary land plan.

3.0 WATER UTILITES

Water Treatment Facilities

HCMUD 50 supplies drinking water from three groundwater plants and is under contract with the San Jacinto River Authority (SJRA) to purchase 500,000 gallons per day of raw water. HCMUD 50 is currently upgrading water plants 1 and 2, the Crosby Lynchburg and St. Charles Water Plant, this report considers the capacity of the water plants after these upgrades are complete.

The water supply is provided by three groundwater wells which have a total capacity of 2,548 ESFC and an effective capacity of 2,165 ESFC after considering TCEQ's 85% rule. Therefore, the available capacity of water supply in the system is 361 ESFC. With the addition of 400 ESFC to serve the proposed development HCMUD 50 would have a deficit capacity of 39 ESFC. HCMUD

50 does not have sufficient water supply capacity to serve the proposed development. HCMUD 50 can serve up to 361 connections without violating TCEQ's 85% capacity rule but would not be able to serve any additional development within the District. Pending TCEQ approval of an 85% rule exception, HCMUD 50 would have an available capacity of 744 ESFC before serving Lago Bello and 344 ESFC after serving Lago Bello.

Water supply within the District is governed by the Water Conservation Plan that is in place with the Harris-Galveston Subsidence District (HGSD). According to the agreement with HGSD, HCMUD 50 may not serve any additional entities outside of the MUD boundary without notification to HGSD. This agreement also limits HCMUD 50 to the three wells that are currently in operation. Due to this fact, no additional groundwater supply can be added to the District.

The system capacity of ground storage tanks is 3,065 ESFC and an available capacity of 1,261 ESFC. With the addition of 400 ESFC to serve the proposed development, the remaining capacity would be 861 ESFC. HCMUD 50 has sufficient ground storage tank capacity to serve the proposed development.

The system capacity of booster pumps is 1,500 ESFC and has no available capacity. TCEQ requires 2 gpm per connection. To provide service for an additional 400 ESFC, HCMUD 50 would need an additional 800 gpm of booster pump capacity added to Water Plants 1 and 2. HCMUD 50 does not have booster pump capacity to serve the proposed development without upgrades.

The pressure in the system is supplied by an elevated storage tank and hydropneumatic pressure tanks. The hydropneumatic tanks have a total capacity of 1,275 ESFC. The elevated storage tank has a total capacity of 2,500 ESFC and an effective capacity of 2,125 ESFC after considering the TCEQ 85% rule. Therefore, the available capacity of pressure in the system is 321 ESFC. With the addition of 400 ESFC to serve the proposed development, HCMUD 50 would have a deficit capacity of 79 ESFC. HCMUD 50 does not have sufficient pressure capacity to serve the proposed development. HCMUD 50 can serve up to 321 connections without violating TCEQ's 85% capacity rule but would not be able to serve any additional development within the District. Pending TCEQ approval of an 85% rule exception, HCMUD 50 would have an available capacity of 696 ESFC before serving Lago Bello and 296 ESFC after serving Lago Bello.

Water Distribution Lines

An existing 12-inch waterline along Melville Drive that is approximately 215 LF from the western border of the proposed development is available for water service connections needed to serve the proposed development. A pipe model was not created to analyze pressures in pipes.

4.0 SANITARY UTILITES

Wastewater Treatment Facilities

HCMUD 50 provides wastewater treatment from two wastewater treatment plants. Lago Bello would be served by Wastewater Treatment Plant No. 1 (WWTP 1), which is currently using 83% of its total capacity of 1,719 ESFC on average and has a remaining capacity of 292 ESFC. During rain events WWTP 1 operates at full capacity, having no remaining connections. With the addition of 400 ESFC required to serve Lago Bello, HCMUD 50 would have a deficit capacity of 108 ESFC

on average and 400 ESFC during rain events. WWTP 1 does not have capacity to serve Lago Bello. To accommodate 400 ESFC at a peaking factor of 4, HCMUD 50 would need to upgrade the headworks, clarifier, chlorine contact basin and digester and add aeration basins. A permit amendment will be required for average daily flow of 0.90 MGD.

Sanitary Sewer

An existing 10" gravity sanitary sewer along Zinn drive that is approximately 200 LF from the north east border of the proposed development is available for the sewer tap needed to serve the proposed development. The sanitary sewer for Lago Bello would flow from an existing manhole at the end of Zinn Drive, through the existing 10" gravity sewer line, to the lift station at Zinn Drive. The flow must then be pumped by force main under the San Jacinto River Authority channel to an existing manhole. From this manhole, a 10" sanitary sewer line flows along Zinn Drive, which transitions to a 15" gravity sewer line along Oak Avenue before entering the Elm lift station. Elm lift station then pumps to HCMUD 50 WWTP 1. The maximum number of service connections a 10-inch gravity sanitary sewer can serve, at minimum grade and a peak factor of 4, is 810 ESFC. The 10" sewer currently serves 94 ESFC. With the addition of 400 ESFC, the 10-inch sewer would be serving 494 ESFC, resulting in a remaining capacity of 316 ESFC.

Lift Station

The existing HCMUD 50 lift station at Zinn Drive has a capacity of 1,000 ESFC and is currently serving approximately 600 ESFC. With the addition of 400 ESFC for the proposed development the lift station would have no remaining capacity to serve remaining lots within the District and is therefore not feasible for HCMUD 50. To maintain existing system capacity the lift station must be upgraded for 400 additional connections at peak flow. The proposed upgrades include new lift station pumps and a new wet well.

The existing HCMUD 50 lift station at Elm Avenue has a maximum capacity 2,448 ESFC and is currently serving 973 ESFC. With the addition of 400 ESFC to serve the proposed development, the lift station would have a remaining capacity of 1,475 ESFC. The lift station has capacity to serve the proposed development. The pump cycle time would need to be adjusted to accommodate the additional flow.

Force Main

The existing 6-inch force main from the Zinn Drive lift station, under the SJRA channel, to a manhole on Elm Avenue would need to be upgraded to an 8" force main to meet the maximum velocity standard of 8 fps.

The existing 4-inch force main from the Elm Avenue lift station to WWTP 1 would need to be increased to a 10-inch force main to meet the maximum velocity standard of 8 fps.

5.0 OPINION OF PROBABLE COST

To serve the proposed development, HCMUD 50 would need to upgrade Water Plant No. 1, Water Plant No. 2, WWTP 1, the Zinn Drive lift station, the 6-inch force main from the Zinn Drive lift station under the SJRA channel, and the 4-inch force main from the Elm Avenue lift station to WWTP 1. See the attached opinion of probable costs for the facility cost breakdown. The cost

estimate assumes that the developer is responsible for development drainage, detention and connecting to existing water and sanitary lines.

6.0 FINANCIAL IMPACT

Lago Bello lies outside of the HCMUD 50 boundary and will not be annexed, therefore the District will not receive any taxable value. However, water and sewer revenue would be generated by the 400 homes. Assuming the current base water and sewer rates, HCMUD 50 could anticipate approximately $35,800 per year in revenue.

Construction costs of all the needed upgrades totals $4,000,000 as shown on the detailed estimates following this report, which equates to $10,000 per connection.

7.0 SUMMARY

In order to serve Phase 1 of Lago Bello MUD, HCMUD 50 would need to upgrade their water system with:

1. 800 gpm of booster pumps
2. TCEQ 85% rule exception and HGSD approval for well supply
3. TCEQ 85% rule exception for elevated tank capacity

Sanitary sewer system upgrades would include:

1. WWTP1 permit amendment and upgrades
2. Zinn Lift Station upgrades
3. Zinn forcemain upsize
4. Elm forcemain upsize

A reasonable timeline to accomplish the necessary upgrades is approximately two years. Rule exception requests to the TCEQ are not always granted and could potentially make this project not feasible.

CobbFendley

HARRIS COUNTY MUD 50 IMPROVEMENTS TO SERVE LAGO BELLO PHASE I - 400 HOMES MARCH 2020			
1	Wastewater Treatment Plant No. 1 Upgrades	$	2,275,900
2	Lift Station and Force Main Improvements	$	1,424,200
3	Water Plant Improvements	$	299,900
Total		$	4,000,000
Cost per connection		$	10,000

Harris County MUD 50
WWTP 1 EXPANSION TO 0.9 MGD To Serve Lago Bello
Opinion of Probable Cost
March 2020

Item No.	Item Description	Unit Measure	Unit Quantity	Unit Price	Total in Figures
GENERAL					
1	Mobilization (5% Maximum)	LS	1	$77,100	$77,100
2	Site Work Including Driveway and Yard Piping	LS	1	$100,000	$100,000
				TOTAL - GENERAL	**$177,100**
HEADWORKS MODIFICATION					
1	Mechanical Barscreen Replacement	LS	1	$125,000	$125,000
2	Manual Barscreen Replacement	LS	1	$10,000	$10,000
3	Piping Modifications	LS	1	$4,000	$4,000
4	Splitter box and Weir structure	LS	1	$40,000	$40,000
5	Pumps to new Aeration Basins	LS	1	$15,000	$15,000
				TOTAL - HEADWORKS MODIFICATION	**$194,000**
AERATION BASIN ADDITION					
1	Aeration Basin - 21,600 cubic feet; Including Air Drops, Piping, Valves, Fittings, Protective Coatings, Etc.	EA	2	$115,000	$230,000
2	Foundation	EA	2	$15,000	$30,000
3	Centrifugal Blowers	EA	2	$30,000	$60,000
				TOTAL - AERATION BASIN ADDITION	**$320,000**
CLARIFIER UPGRADES					
1	Bridges, Walkways, Stairs, Internal Components	LS	1	$75,000	$75,000
2	Clarifier Control Panel and Electrical Modifications	LS	1	$35,000	$35,000
				TOTAL - CLARIFIER UPGRADES	**$110,000**
CHLORINE CONTACT BASIN EXPANSION					
1	Concrete Walls and floor for Additional Basin (1,450 cubic feet) Complete in Place	EA	3	$75,000	$225,000
2	Aluminum Slide Gate	EA	3	$7,000	$21,000
3	Blower with air piping and concrete foundation	EA	2	$20,000	$40,000
4	Chlorine gas equipment with scales in a 10'X10' Fiberglass room with concrete foundation	LS	1	$60,000	$60,000
				TOTAL - CHLORINE CONTACT BASIN EXPANSION	**$346,000**
DIGESTER REPLACEMENT					
1	Steel Digester (9,000 cubic feet) Complete in Place	EA	2	$125,000	$250,000
2	Foundation	EA	2	$15,000	$30,000
3	Removal of existing digester	EA	1	$8,000	$8,000
4	Blower with air piping and concrete foundation	EA	2	$30,000	$60,000
				TOTAL - DIGESTER REPLACEMENT	**$348,000**
ELECTRICAL					
1	Electrical upgrades	LS	1	$125,000	$125,000
				TOTAL - ELECTRICAL	**$125,000**

TOTAL (BASE)	$	**1,620,100**
CONTINGENCY (15%)	$	**243,100**
ENGINEERING (20%)	$	**372,700**
WWTP PERMIT AMMENDMENT	$	**40,000**
OVERALL TOTAL	$	**2,275,900**

Harris County MUD 50
LIFT STATION AND FORCE MAIN IMPROVEMENTS
Preliminary Construction Cost Estimate
March 2020

Item No.	Item Description	Unit Measure	Unit Quantity	Unit Price	Total in Figures
GENERAL					
1	Mobilization (5% Maximum)	LS	1	$49,100	$49,100
2	SWPPP	LS	1	$10,000	$10,000
3	Site Restoration	LS	1	$15,000	$15,000
4	Bypass Pumping	Day	30	$2,500	$75,000
				TOTAL GENERAL	**$149,100**
DEMOLITION					
1	Zinn Lift Station - Demolish all existing piping and electrical items, haul and dispose offsite; salvage existing pumps to District	LS	1	$10,000	$10,000
2	Fill and abandon existing 6" forcemain	LF	310	$15	$4,650
3	Fill and abandon existing 4" forcemain	LF	2,130	$15	$31,950
				TOTAL UNIT PRICES - DEMOLITION	**$46,600**
ZINN LIFT STATION					
1	All Weather Access Driveway	SY	30	$150	$4,500
2	8-foot diameter Lift Station Structure - Complete in Place including connection to Gravity Sewer	LS	1	$250,000	$250,000
3	Electrical System Upgrades	LS	1	$100,000	$100,000
4	Lift Station Pumps - Complete in place (850 gpm)	EA	2	$55,000	$110,000
5	Replace Fence and Gate	LF	100	$80	$8,000
				TOTAL UNIT PRICES - ZINN LIFT STATION	**$472,500**
FORCE MAIN FROM ZINN LIFTSTATION					
1	8-inch Force Main No Casing (trenchless)	LF	310	$140	$43,400
2	8-inch Force Main Including 16-Inch Steel Casing (trenchless)	LF	200	$300	$60,000
				TOTAL - FORCE MAIN FROM ZINN LIFTSTATION	**$103,400**
FORCE MAIN FROM ELM LIFTSTATION					
1	10-inch Force Main (open cut)	LF	1,980	$100	$198,000
2	10-inch Force Main Including 16-Inch Steel Casing (trenchless)	LF	150	$350	$52,500
3	Trench safety	LF	1,980	$5	$9,900
				TOTAL - FORCE MAIN FROM ELM LIFTSTATION	**$260,400**
TOTAL (BASE)					**$ 1,032,000**
CONTINGENCY (15%)					**$ 154,800**
ENGINEERING (20%)					**$ 237,400**
OVERALL TOTAL					**$ 1,424,200**

Harris County MUD 50
Water Plant Improvements To Serve Lago Bello
Preliminary Construction Cost Estimate
March 2020

Item No.	Item Description	Unit Measure	Unit Quantity	Unit Price	Total in Figures
UNIT PRICES - GENERAL					
1	Mobilization (5% Maximum)	LS	1	$10,300	$10,300
				TOTAL - GENERAL	**$10,300**
WATER PLANT NO. 1 - CROSBY LYNCHBURG					
1	Site Preparation and Restoration	LS	1	$2,000	$2,000
2	TDPES Requirements	LS	1	$500	$500
3	Booster Pump - 550 gpm	EA	1	$9,000	$9,000
4	Piping and Valves	LS	1	$25,000	$25,000
5	Electrical upgrades	LS	1	$35,000	$35,000
				TOTAL - WATER PLANT NO. 1 - CROSBY LYNCHBURG	**$71,500**
WATER PLANT NO. 2 - ST. CHARLES					
1	Site Preparation and Restoration	LS	1	$2,000	$2,000
2	TDPES Requirements	LS	1	$500	$500
3	Booster Pump - 300 gpm	EA	1	$8,000	$8,000
4	Piping and Valves	LS	1	$20,000	$20,000
5	Electrical upgrades - Including Service Upgrade	LS	1	$105,000	$105,000
				TOTAL - WATER PLANT NO. 2 - ST. CHARLES	**$135,500**
TOTAL (BASE)					**$ 217,300**
CONTINGENCY (15%)					**$ 32,600**
ENGINEERING (20%)					**$ 50,000**
OVERALL TOTAL					**$ 299,900**

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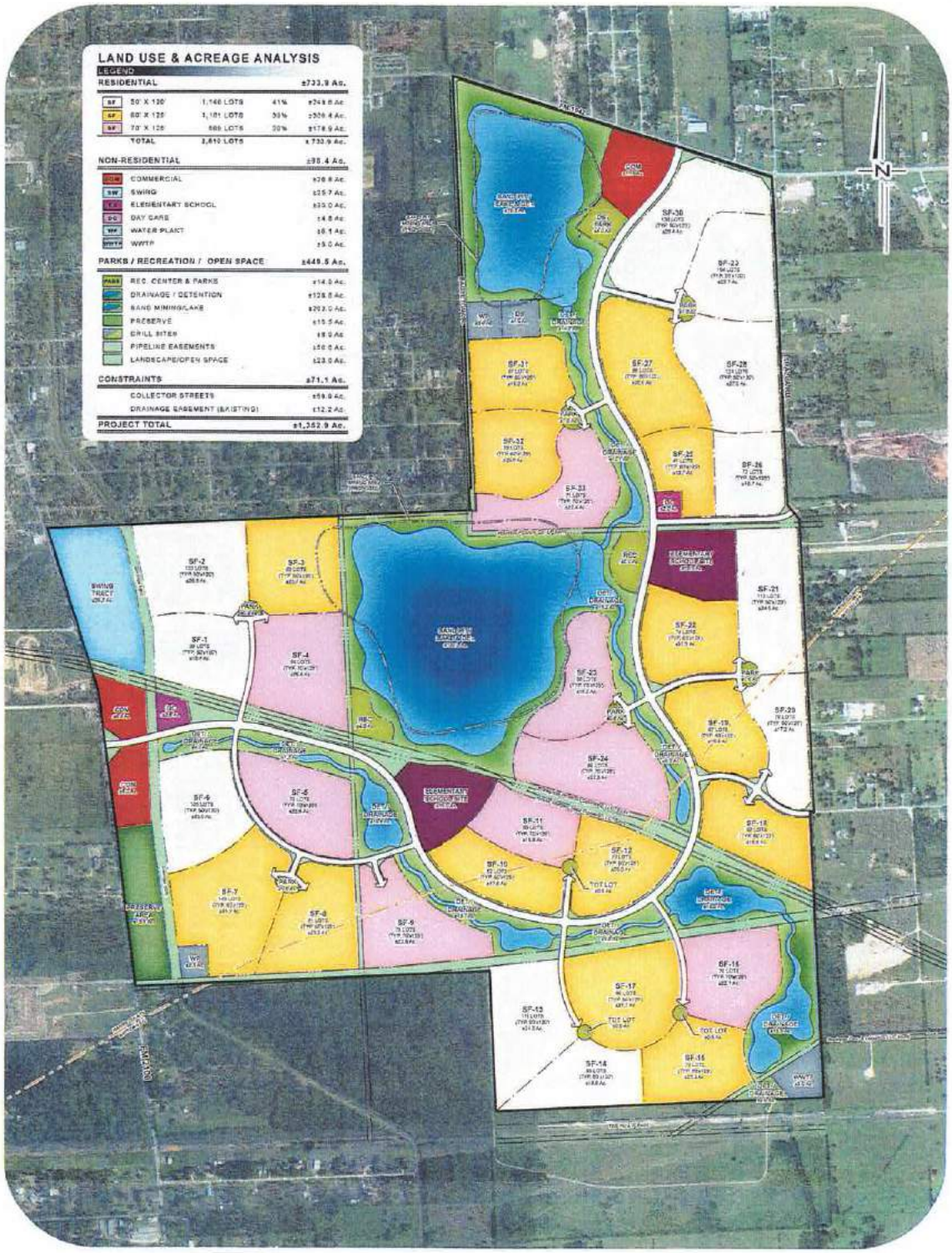

OPTION **B**

LOT SUMMARY

50'x120'	1,140 LOTS	41%
60'x125'	1,101 LOTS	39%
70'x125'	569 LOTS	20%

2,810 LOTS

a conceptual development plan for

± 1,300 AC. HIGHLANDS TRACT

± 1,352.9 ACRES OF LAND

prepared for

SILVESTRI INVESTMENTS

BGE KERRY R. GILBERT & ASSOCIATES
– Land Planning Consultants –
23501 Cinco Ranch Blvd., Suite A-250
Katy, Texas 77494
7500 North Mopac, Suite 330
Austin, TX 78731
2905 Dallas Parkway, Suite 304
Frisco, TX 75034
Tel: 281-579-0340

SCALE

APRIL 12, 2016
NDA #25500

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HARRIS COUNTY MUD 50

BARRETT STATION, TEXAS

OVERALL UTILITY MAP

LEGEND

- Existing Lift Station
- Existing WWTP
- Water Plants
- Manholes
- Fire Hydrants (Approximate Location)
- Water Valves
- Water Distribution
- Force Main
- Sanitary Sewer
- District Boundary
- Tracts

CobbFendley

CobbFendley

HARRIS COUNTY MUD 50 ENGINEER'S REPORT
COBBFENDLEY PROJECT NO. 1612-043-01, TASK 01

Meeting Date: Tuesday, March 3, 2020 at 6:00 p.m.

From: Amber Hurd, P.E.
To: Board of Directors

DISTRICT PROJECTS

Design Projects:

Wastewater Treatment Plant No. 2 Phase 2 – We received comments from Harris County on the plans and have revised plans to address them. We resubmitted to the County for final approval.

Drinking Water State Revolving Fund (DWSRF) 2016 Water Plant 3 Site Acquisition
No update.

Construction Projects:

Wastewater Treatment Plant No. 2 – We are working through final documents with Black Castle. Pay Application No. 12 Final is attached for your approval in the amount of $89,370.62.

Drinking Water State Revolving Fund (DWSRF) 2016 Smart Meters – Project is complete and under warranty until July 23, 2020.

Drinking Water State Revolving Fund (DWSRF) 2016 Water Plant Improvements – Contractor is nearing completion of major work items at Water Plant 2. They will move to Water Plant 1 mid-March. We recommend approval of Pay Estimate No. 5 in the amount of $89,219.50.

2019 Sanitary Sewer Rehabilitation – TWDB approved the construction contract. Notice to proceed was issued February 24th. Contractor has been pipe bursting on Wisdom and Gulf Pump Road. See attached work schedule from CZ Construction.

DEVELOPMENT PROJECTS

Applications for Service:

Barrett Station – Utility commitment letter for 2 homes at 12418 Judge Street is attached for approval. They are in the process of replatting.

Kodiak Crossing Section 1 – We are working with McCall Gibson on the developer reimbursement audit.

Kodiak Crossing Sections 2 and 3 – None.

Kodiak Crossing Section 4 – Contractor is working on roadway subgrade.

Pendleton Development –Sleep Inn Plat recordation is complete. Waiting on County approved plans.

Church of the Nazarene – No update.

Highway 90 Apartments – No update.

20 Acres Adjacent to Kodiak – Developer is requesting a feasibility study to serve the tract.

David Ryland Homes – No update.

Lago Bello MUD – Feasibility Study attached.

Friendswood Development – They are looking at a tract of land south of the District on the west side of Crosby Lynchburg Road. Asked if we have capacity to serve water and sewer. I told them a feasibility study would be required, or we can allow them to review the Lago Bello study.

GENERAL DISTRICT ENGINEERING:

Capital Improvement Plan – No update.

Water Conservation Plan – HGSD has approved the new 5-year exemption but want a few modifications to the plan.

Water/Sewer Capacity Status – No update.

February 27, 2020

Mr. Martin Lemond, President
Harris County Municipal Utility District No. 50
12900 Crosby Lynchburg Road
Crosby, Texas 77532

Re: HC MUD 50
Wastewater Treatment Plant No. 2 (Phase 1) – Pay Estimate No. 12 (FINAL)
TWDB Project ID: 73706

Dear Mr. Lemond,

We have received and reviewed Pay Estimate No. 12 (FINAL) for the above referenced project in the amount of $114,370.62. We recommend payment of $89,370.62 for the attached pay estimate due to the deduction amount stipulated below. There are no outstanding change orders. A short tabulation below summarizes the final contract amounts, including the deductions per the Settlement Agreement. Please note that Pay Estimate 12 (FINAL) includes payment of retainage in the amount of 5% of the contract amount after all change orders.

Contract Amount (including change orders)	$2,287,412.40
Final Work-In-Place	$2,287,412.40
Previous Payments	$2,173,041.78
Retainage amount	$114,370.62
Settlement Deduction	($25,000.00)
Amount Due (Pay Estimate 12 FINAL)	**$89,370.62**

If you have any questions, please call me at 936-224-7114.

Sincerely,

COBB, FENDLEY & ASSOCIATES, INC.

Amber R. Hurd, P.E.

cc: Rodney Schwarzlose – Black Castle General Contractor
Reginald Wilson – Norton Rose Fulbright
Jessica Taylor – TWDB

APPLICATION FOR PAYMENT

ESTIMATE NO. 12 & Final DATE: 2/27/2020

HARRIS COUNTY MUD 50
Wastewater Treatment Plant No. 2 (Phase 1)

PROJECT NO. 1612-043-04 CONTRACT AMOUNT $2,287,412.40

CONTRACTOR: Black Castle General Contractor

OWNER: Harris County MUD 50

NTP Issued 10/29/2018 Rain Days This Period 0 Concurred Days to Date 86

CONTRACT TIME 220 CONTRACT DAYS USED 378

ESTIMATE PERIOD 10/26/2019 to 11/11/2019 PERCENT COMPLETE 100%

Submitted on the following pages is the estimate of work completed and materials used on the above referenced project as of the end of the Estimate Period specified.

SUMMARY OF WORK COMPLETED

Total amount of work completed	$2,287,412.40
Materials on hand, not in place	$0.00
Sub-Total	$2,287,412.40
Less 0% Retained	$0.00
Difference	$2,287,412.40
LESS Previous Payment	$2,173,041.78
LESS Settlement Deductions	$25,000.00
TOTAL AMOUNT DUE THIS ESTIMATE	$89,370.62

MAKE CHECK PAYABLE TO:
Black Castle General Contractor
2115 Stephens Place, Suite 210
New Braunfels, TX 78130

Recommended for Approval

COBB, FENDLEY & ASSOC., INC.
Glen Crocker

Black Castle General Contractor
Rodney Schwarzlose, President

Harris County MUD 50
Rachel Broom,PE, Engineer for District

Black Castle General Contractor

SOV AP 12

BLACKCASTLE
GENERAL CONTRACTOR

INVOICE

Project: **Harris County MUD 50**
Wastewater treatment Plant No.2(phase1)

Date: 2-Dec-19

For Period: 10.26.2019 to 11.11.2019

Payable To: **Black Castle General Contractor**
2115 Stephens Place, Suite 210
New Braunfels, TX 78130

Engineer: **Rachel Broom**
Project : **1612-043-04**

Cobb Fendley
13430 Northwest Freeway
Suite 1100
Houston, TX 77040-6138

Original Contract Amount:	**$2,310,193.00**
Change Order(s) Approved:	**($22,780.60)**
Total Contract Amount:	**$2,287,412.40**
Change Order Percentage	**-0.99%**

		% Complete To Date
Total Water Work Completed to Date on Original Bids:	**$2,287,412.40**	100.00%
Change Orders Completed:		0.00%
Materials Stored on Site:		NA
Total Value of Work To Date:	**$2,287,412.40**	$2,287,412.40
Less 0% Retained:		
Less Settlement Deductions :	**$25,000.00**	
Less Previous Payment(s):	**$2,173,041.78**	0
Final Amount Due:	**$89,370.62**	$ 2,287,412.40

Certification is hereby made that this estimate is true and correct and eligible for payment

3-Feb-20

Contractor Rodney Schwarzlose, President — Date

2/4/2020

Manager, Construction — Date

Construction Inspector / Observer — Date

FOR OWNER INTERNAL USE

Harris County Municipal Utility District No.50
Wastewater Treatment Plant No.2
SCHEDULE OF VALUES

BLACKCASTLE
GENERAL CONTRACTOR

Pay Ap No: 12
Project No: 1612-043-04-01
Black Castle Job: 11-15
2,310,193.00
C O difference $ (21,029.40)

Contractor: Black Castle General Contractor
Address: 101 Southwestern Blvd Suite 218
Sugar Land, TX 77478

Item No	Description	Estimated Quan	Unit	Unit Price	Total Price	Quan Comp This Pd	Dollar total this period	Amt Comp To Date	Dollar Total
						-		-	
	Site Work								
1	Mobilization	1	LS	$ 115,000	$ 115,000		$0.00	100%	$ 115,000
2	Traffic Control and regulation	1	LS	$ 1,700	$ 1,700		$0.00	100%	$ 1,700
3	SWPPP	1	LS	$ 2,800	$ 2,800		$0.00	100%	$ 2,800
4	Clearing, grubbing and disposing of trees	2	AC	$ 10,200	$ 20,400		$0.00	2	$ 20,400
5	12ft All weather access Road	2738	SY	$ 27	$ 73,926		$0.00	2738	$ 73,926
6	Swale @ 0.05% slope with 3:1 side slope	1625	LF	$ 3	$ 4,875		$0.00	1625	$ 4,875
7	6' Cham Link Fence with 3-strand barbed wire	705	LF	$ 26	$ 18,330		$0.00	705	$ 18,330
8	Asphaltic concrete pavement for pavement removal and repair	125	SY	$ 83	$ 10,375		$0.00	125	$ 10,375
9	Trench Safety System	5717	LF	$ 1	$ 5,717		$0.00	5717	$ 5,717
	Storm Sewer								
10	Storm sewer junction box	0	EA		$ -		$0.00		$ -
11	RCP	9	LF	$ 193	$ 1,737		$0.00	9	$ 1,737
	Sanitary Sewer								
12	10" Sanitary gravity sewer pipe	1217	LF	$ 49	$ 59,633		$0.00	1217	$ 59,633
13	10" Sanitary gravity sewer trenchless with casing	120	LF	$ 297	$ 35,640		$0.00	120	$ 35,640
15	6" Sanitary forcemain with casing	95	LF	$ 221	$ 20,995		$0.00	95	$ 20,995
17	Sanitary manholes	5	EA	$ 4,200	$ 21,000		$0.00	5	$ 21,000
18	Air realease manholes	2	EA	$ 8,100	$ 16,200		$0.00	2	$ 16,200
	WWTP package Plant								$ -
	WWTP Fabrication and installation								$ -
19a	Deliver, offload and set equipment	1	LS	$ 160,000	$ 160,000		$0.00	100%	$ 160,000
19b	(1) 35'-0" x 13'-6" clarifier with internals	1	LS	$ 122,000	$ 122,000		$0.00	100%	$ 122,000
19c	Gear drive and transmission	1	LS	$ 12,000	$ 12,000		$0.00	100%	$ 12,000
19d	(1) 48'-0" x 12'-0" x 12'-2" aeration basin	1	LS	$ 85,000	$ 85,000		$0.00	100%	$ 85,000
19e	(1) 30'-0" x 12'-0" x 12'-2" digester basin	1	LS	$ 60,000	$ 60,000		$0.00	100%	$ 60,000
19f	(1) 20'-0" x 10'-0" x 12'-2" chlorine contact basin	1	LS	$ 70,000	$ 70,000		$0.00	100%	$ 70,000
19g	Manual bar screen box	1	LS	$ 6,000	$ 6,000		$0.00	100%	$ 6,000
19h	Bridges, walkways, and stairs	1	LS	$ 36,000	$ 36,000		$0.00	100%	$ 36,000
19i	Air drops and diffusers	1	LS	$ 6,000	$ 6,000		$0.00	100%	$ 6,000
19j	Pipes, valves and fittings	1	LS	$ 40,000	$ 40,000		$0.00	100%	$ 40,000
19k	(2) centrifugal blowers	1	LS	$ 55,000	$ 55,000		$0.00	100%	$ 55,000
19l	Chlorination, NPW, flow measuring equipment	1	LS	$ 65,000	$ 65,000		$0.00	100%	$ 65,000
19m	Blower and clarifier control panels, autodialer	1	LS	$ 30,000	$ 30,000		$0.00	100%	$ 30,000
19n	Protective coatings - field	1	LS	$ 15,000	$ 15,000		$0.00	100%	$ 15,000
	19 Total	**$ 762,000**					$0.00		
20a	Crushed concrete under aeration basin,Digester, chlorine contact and clarifier	1	LS	$ 20,000	$ 20,000		$0.00	100%	$ 20,000
20b	Concrete slab under blowers	1	LS	$ 2,500	$ 2,500		$0.00	100%	$ 2,500
	20 Total	**$ 22,500**					$0.00		
21	10" outflow piping from disinfection to effluent LS	1	LS	$ 9,900	$ 9,900		$0.00	100%	$ 9,900
	Lift stations								
	INFLUENT Lift Station								$ -
22a	Sink Wet Well	1	LS	$ 105,700	$ 105,700		$0.00	100%	$ 105,700
22b	Wet Well Top with Hatches	1	LS	$ 51,000	$ 51,000		$0.00	100%	$ 51,000
22c	Lift Station Piping	1	LS	$ 40,000	$ 40,000		$0.00	100%	$ 40,000
22d	Install Pumps	1	LS	$ 35,000	$ 35,000		$0.00	100%	$ 35,000
	22 Total	**$ 231,700**							
	EFFLUENT Lift Station								$ -
23a	Sink Wet Well	1	LS	$ 80,300	$ 80,300		$0.00	100%	$ 80,300
23b	Wet Well Top with Hatches	1	LS	$ 51,000	$ 51,000		$0.00	100%	$ 51,000
23c	Lift Station Piping	1	LS	$ 39,000	$ 39,000		$0.00	100%	$ 39,000
23d	Install Pumps	1	LS	$ 35,000	$ 35,000		$0.00	100%	$ 35,000
	23 Total	**$ 205,300**							
	Electrical								$ -
	Influent Lift station Electrical								$ 1,500
24a	Service entrance	1	LS	$ 1,500	$ 1,500		$0.00	100%	$ 10,000
24b	Switchgear	1	LS	$ 10,000	$ 10,000		$0.00	100%	$ 1,500
24c	Instrumentation	1	LS	$ 1,500	$ 1,500		$0.00	100%	$ 1,500
24d	Control panel installation	1	LS	$ 1,500	$ 1,500		$0.00	100%	

GC

24e	Motors Pumps	1	LS	$ 2,600	$ 2,600		$0.00	100%	$ 2,600
24f	Site lighting	1	LS	$ 6,000	$ 6,000		$0.00	100%	$ 6,000
24g	Underground conduit	1	LS	$ 20,000	$ 20,000		$0.00	100%	$ 20,000
24h	Underground conduit wire	1	LS	$ 11,400	$ 11,400		$0.00	100%	$ 11,400
24i	Exposed outdoor conduit	1	LS	$ 9,000	$ 9,000		$0.00	100%	$ 9,000
24j	Exposed outdoor conduit wire	1	LS	$ 4,000	$ 4,000		$0.00	100%	$ 4,000
24k	In slab conduit	1	LS	$ 3,000	$ 3,000		$0.00	100%	$ 3,000
24l	Generator connection	1	LS	$ 2,600	$ 2,600		$0.00	100%	$ 2,600
24m	Grounding	1	LS	$ 3,000	$ 3,000		$0.00	100%	$ 3,000
	WWTP Electrical								
24n	Switchgear	1	LS	$ 7,000	$ 7,000		$0.00	100%	$ 7,000
24o	Instrumentation	1	LS	$ 1,500	$ 1,500		$0.00	100%	$ 1,500
24p	Control panel Intallation	1	LS	$ 4,000	$ 4,000		$0.00	100%	$ 4,000
24q	Motors Pumps	1	LS	$ 500	$ 500		$0.00	100%	$ 500
24r	Site lighting	1	LS	$ 7,000	$ 7,000		$0.00	100%	$ 7,000
24s	Underground conduit	1	LS	$ 85,000	$ 85,000		$0.00	100%	$ 85,000
24t	Underground wire	1	LS	$ 26,000	$ 26,000		$0.00	100%	$ 26,000
24u	Exposed Outdoor Conduit	1	LS	$ 20,000	$ 20,000		$0.00	100%	$ 20,000
24v	Exposed Outdoor Conduit wire	1	LS	$ 10,000	$ 10,000		$0.00	100%	$ 10,000
24w	Grounding	1	LS	$ 8,000	$ 8,000		$0.00	100%	$ 8,000
	Effluent Lift station Electric								
24x	Instrumentation	1	LS	$ 1,500	$ 1,500		$0.00	100%	$ 1,500
24y	Control panel installation	1	LS	$ 1,500	$ 1,500		$0.00	100%	$ 1,500
24z	Motors Pumps	1	LS	$ 2,600	$ 2,600		$0.00	100%	$ 2,600
24zz	In slab conduit	1	LS	$ 3,000	$ 3,000		$0.00	100%	$ 3,000
	Alternates								
A.1	Fine screen system	1	LS	$ 63,400	$ 63,400		$0.00	100%	$ 63,400
A.2	Stand-by 300KW Diesel Generator with foundation and 600amp, 3 pole ATS	1	LS	$ 104,700	$ 104,700		$0.00	100%	$ 104,700
A.3	6" Forcemain trenchless technology	4150	LF	$ 39	$ 161,850		$0.00	4150	$ 161,850
	Cash Allowances								
C.1	Electrical Service	1	LS	$ 50,000	$ 50,000		$0.00	12.38%	$ 6,190
C.2	Phone line installation	0	LS	$ 20,000	$ -		$0.00		$ -
	Change Orders								
	30" Storm Sewer Box	1	LS	$ 7,250	$ 7,250		$0.00	1	$ 7,250
	30" RCP	55	LF	$ 214	$ 11,770		$0.00	55	$ 11,770
	30" SETs	2	EA	$ 1,800	$ 3,600		$0.00	2	$ 3,600
	Remove Driveway	1	LS	$ 1,500	$ 1,500		$0.00	100%	$ 1,500
	Well Point Sanitary Sewer	370	LF	$ 32	$ 11,655		$0.00	370	$ 11,655
	Well Point Influent Lift Station	1	LS	$ 5,175	$ 5,175		$0.00	100%	$ 5,175
CO2	additional 24" RCP along access road	1	LS	$ 16,894	$ 16,894		$0.00	100%	$ 16,894
					$ 2,331,222	$0.00	$0.00		$ 2,287,412

$0.00

$0.00

CobbFendley
TBPE Firm Registration No.274
13430 Northwest Freeway, Suite 1100 | Houston, Texas 77040
Phone: (713) 462-3242 | Fax: (713) 462-3262

Application and Certificate for Payment

PROJECT: Harris County MUD 50 Water Plant Improvements

OWNER: Harris County MUD 50
ADDRESS: 12900 Crosby-Lynchburg
Crosby, TX 77532

PAY PERIOD: From 1/21/2020 **To** 2/20/2020

ENGINEER: Rachel Broom, PE

Estimate No 5

7/15/2019	Notice to Proceed
6/14/2020	Substantial Completion Date
7/14/2020	Final Completion Date

Initial Contract Time	365	days
Current Approved Extensions	0	days
Previous Approved Extensions	0	days
Total Contract Time	365	days
Spent Days	220	days
Days Remaining	145	days
Rain Days To Date	0	days

Change Orders:

	NO.	Date:	Amount:
Approved Change Orders:	1	9/3/2019	$2,500.00
Total Change Orders:			$2,500.00

Payment Calculation:

Original Contract Sum:	$	1,328,690.00
Net Change by Change Orders:	$	2,500.00
Contract Sum to Date:	$	1,331,190.00
Total Completed and Stored to Date:	$	387,380.00
Retainage:		
% of Completed Work:		5%
Total Retainage:	$	19,369.00
Total Earned Less Retainage:	$	368,011.00
Less Previous Certificates of Payment:	$	280,791.50
Current Payment Due:	**$**	**87,219.50**

The foregoing estimate of work completed is true and correct to the best of my knowledge and belief.

Approved by: Rachel Broom
Engineer

Date: 2/21/2020

Application and Certificate for Payment

CobbFendley

To Owner: Harris County MUD 50 | Application No: 5 | Date: 2/20/2020
Contractor: Schier Construction Company, Inc. | Project Job No: 1612-043-09-01 | Pay Period: From: 1/21/2020 To: 2/20/2020
Project: Water Plant Improvements

Item No.	Item Description	Unit	Contract Quantity	Unit Price	Scheduled Price	Quantities		Completed and Stored to Date			Comment
						Previous Estimate	This Period	Quantity	Amount	%	
SECTION 1 - MOBILIZATION											
1	Mobilization (Max 5% of Total Construction Contract)	LS	1	$33,900.00	$33,900.00	1	0	1	$ 33,900.00	100%	
SECTION 2 - WATER PLANT NO. 1 - CROSBY LYNCHBURG											
2	Demolition of Existing Booster Pumps, Yard Piping, Disinfection Equipment, Electrical MCC, and Misc Electrical										
2a	Booster Pumps and Yard Piping	LS	1	$9,400.00	$9,400.00	0	0	0	$ -	0%	
2b	Electrical	LS	1	$11,400.00	$11,400.00	0	0	0	$ -	0%	
2c	Disinfection Equipment	LS	1	$1,500.00	$1,500.00	0	0	0	$ -	0%	
3	Site Preparation, Clearing and Final Grading										
3a	Site Prep and Clearing	LS	1	$3,300.00	$3,300.00	1		1	$ 3,300.00	100%	
3b	Final Grading	LS	1	$4,500.00	$4,500.00	0	0	0	$ -	0%	
4	TPDES Requirements	LS	1	$1,600.00	$1,600.00	0.19	0	0.19	$ 300.00	19%	
5	16' Swing Gate, Complete in Place	EA	1	$2,900.00	$2,900.00	1	0	1	$ 2,900.00	100%	
6	Concrete Foundation for Booster Pumps, MCC and Chlorine Room, Complete in Place										
6a	Booster Pump Pad	SF	640	$36.00	$23,040.00	640	0	640	$ 23,040.00	100%	
6b	Chemical Bldg. Slab	SF	36	$36.00	$1,296.00	0	0	0	$ -	0%	
6c	MCC Pad	SF	39	$36.00	$1,404.00	0	0	0	$ -	0%	
7	Sidewalk, Complete in Place	SF	230	$15.00	$3,450.00	0	0	0	$ -	0%	
8	6" Gravel Drive Including Lime and Subgrade as Specified in the Geotechnical Report, Complete in Place	SY	105	$66.00	$6,930.00	0	0	0	$ -	0%	
9	Booster Pump Awning, Complete in Place	LS	1	$10,900.00	$10,900.00	0	0	0	$ -	0%	
10	Chlorine Disinfection System in Fiberglass Enclosure, Complete in Place	LS	1	$39,300.00	$39,300.00	0	0	0	$ -	0%	
11	Emergency Eye Wash/Shower, Complete in Place	LS	1	$1,300.00	$1,300.00	0	0	0	$ -	0%	
12	Yard Piping and Connection to Distribution System, Complete in Place										
12a	Piping Installation	LS	1	$140,000.00	$140,000.00	0	0	0	$ -	0%	
12b	Paint	LS	1	$6,000.00	$6,000.00	0	0	0	$ -	0%	
13	Provide and install 550 gpm Booster Pump	EA	4	$7,400.00	$29,600.00	0	0	0	$ 1,600.00	5%	
14	Electrical System, Including MCC, Conduit, Ductbank and Wire, Complete in Place										
14a	New 600A Service Pole w/ SPD, Grounding	LS	1	$17,000.00	$17,000.00	0	0	0	$ -	0%	
14b	MCC w/ Controls	LS	1	$91,300.00	$91,300.00	0	0	0	$ -	0%	
14c	Mini-Power Centers - Office, Generator	LS	1	$15,300.00	$15,300.00	0	0	0	$ -	0%	
14d	Conduit, Fittings, Ductbank	LS	1	$66,500.00	$66,500.00	0.1	0	0	$ 6,650.00	10%	
14e	Wiring & Terminations	LS	1	$37,900.00	$37,900.00	0	0	0	$ -	0%	
14f	Lighting	LS	1	$9,500.00	$9,500.00	0	0	0	$ -	0%	
14g	Testing, Startup, Documentation	LS	1	$3,800.00	$3,800.00	0	0	0	$ -	0%	
SECTION 3 - WATER PLANT NO. 2 - ST. CHARLES											
15	Demolition and Proper Disposal of Existing Ground Storage Tank, Hydropneumatic Tank, Yard Piping, Driveway, Fence, and Chlorine Enclosure and Equipment										
15a	GST	LS	1	$12,000.00	$12,000.00	0	0	0	$ -	0%	
15b	Hydrotank	LS	1	$5,000.00	$5,000.00	0	0	0	$ -	0%	
15c	Yard Piping	LS	1	$4,000.00	$4,000.00	0	0	0	$ -	0%	
15d	Driveway	LS	1	$1,000.00	$1,000.00	0	0	0	$ -	0%	
15e	Fence	LS	1	$500.00	$500.00	1		1	$ 500.00	100%	
16	Site Preparation, Clearing and Final Grading Including Drainage										
16a	Site Prep and Clearing	LS	1	$7,000.00	$7,000.00	1	0	1	$ 7,000.00	2/21/2020	
16b	Final Grade	LS	1	$3,500.00	$3,500.00	0	0	0	$ -	0%	
16c	Hydro-Mulch	LS	1	$800.00	$800.00	0	0	0	$ -	0%	
17	TPDES Requirements	LS	1	$6,400.00	$6,400.00	0.61	0	1	$ 3,900.00	61%	
18	8' Chain Link Fence, Complete in Place	LF	510	$39.00	$19,890.00	0	0	0	$ -	0%	
19	16' Swing Gate, Complete in Place	EA	2	$2,700.00	$5,400.00	0	0	0	$ -	0%	
20	Concrete Foundation for Booster Pumps, MCC and Chlorine Room, Complete in Place	SF	675	$38.00	$25,650.00	675	0	675	$ 25,650.00	100%	
21	83,000 Gallon Bolted Steel Ground Storage Tank and Foundation	NOT AWARDED									
22	15,000 Gallon Hydropneumatic Tank and Foundation										
22a	Foundation	LS	1	$33,500.00	$33,500.00	1.00	0	1.00	$ 33,500.00	100%	
22b	Set Tank	LS	1	$50,000.00	$50,000.00	1	0	1	$ 50,000.00	100%	
23	Asphalt Access Apron, Complete in Place	SY	35	$72.00	$2,520.00	0	0	0	$ -	0%	
24	6" Gravel Drive Including Lime and Subgrade as Specified in the Geotechnical Report, Complete in Place	SY	135	$66.00	$8,910.00	0	0	0	$ -	0%	
25	Booster Pump Awning, Complete in Place	LS	1	$10,900.00	$10,900.00	0	0	0	$ -	0%	
26	Chlorine Disinfection System in Fiberglass Enclosure, Complete in Place	LS	1	$40,600.00	$40,600.00	0	0	0	$ -	0%	
27	Emergency Eye Wash/Shower, Complete in Place	LS	1	$2,400.00	$2,400.00	0	0	0	$ -	0%	
28	Yard Piping and Connection to Distribution System, Complete in Place										
28a	Piping Installation	LS	1	$130,900.00	$130,900.00	0	0.4	0	$ 52,360.00	40%	
28b	TS&V	LS	1	$4,000.00	$4,000.00	0	0	0	$ -	0%	
28c	Paint	LS	1	$6,000.00	$6,000.00	0	0	0	$ -	0%	
29	Provide and install 300 gpm Booster Pump	EA	3	$5,800.00	$17,400.00	0	3	3	$ 17,400.00	100%	

Application and Certificate for Payment

CobbFendley

To Owner: Harris County MUD 50
Contractor: Schier Construction Company, Inc.
Project: Water Plant Improvements

Application No: 5
Project Job No: 1612-043-09-01
Pay Period: Date: 2/20/2020 From: 1/21/2020 To: 2/20/2020

Item No.	Item Description	Unit	Contract Quantity	Unit Price	Scheduled Price	Quantities Previous Estimate	Quantities This Period	Completed and Stored to Date Quantity	Completed and Stored to Date Amount	%	Comment
30	Electrical System, Including MCC, Conduit, Ductbank and Wire, Complete in Place										
30a	Demo & Rework Electrical Service w/SPD	LS	1	$12,400.00	$12,400.00	0	0	0	$ -	0%	
30b	MCC w/ Controls	LS	1	$85,000.00	$85,000.00	0	0	0	$ -	0%	
30c	Conduit, Fittings, Ductbank	LS	1	$30,800.00	$30,800.00	0.1	0.0	0	$ 3,080.00	10%	
30d	Wiring and Terminations	LS	1	$14,000.00	$14,000.00	0	0	0	$ -	0%	
30e	Lighting	LS	1	$9,600.00	$9,600.00	0	0	0	$ -	0%	
30f	Testing, Startup & Documentation	LS	1	$3,800.00	$3,800.00	0	0	0	$ -	0%	
CASH ALLOWANCES											
31	Upgrade and Relocation of Electrical Services by Electric Service Provider – Water Plant No. 1	CA	1		$75,000	0	0	0	$ -	0%	
ALTERNATE BID ITEMS											
A-1	83,000 Gallon Epoxy Coated Bolted Steel Ground Storage Tank and Foundation										
A-1a	Foundation	LS	1	$34,100.00	$34,100.00	1.00	0.00	1.00	$ 34,100.00	100%	
A-1b	Tank Installation	LS	1	$88,200.00	$88,200.00	0.75	0.25	1	$ 88,200.00	100%	
A-1c	Paint	LS	1	$4,500.00	$4,500.00	0	0	0	$ -	0%	
Change Orders											
1	Add Air Compressor	LS	1	$2,500.00	$2,500.00	0	0	0	$ -	0%	
		Total Change Orders			$2,500.00						
			Total		$1,331,190.00				$ 387,380.00	29%	

Less 5% Retainage	$	19,369.00
Less Previous Payments	$	280,791.50
AMOUNT DUE	$	87,219.50

SCHIER CONSTRUCTION COMPANY, INC.
14250 Schroeder Road · Houston, Texas 77070
281-469-182
Fax 281-469-137
Jim Schier · Don Maa

February 20, 2020

Cobb, Fendley and Associates, Inc.
13430 Northwest Freeway, Suite 1100
Houston, TX 77040

Attn: Rachel Broom, P.E.
Project Manager

Estimate #5
Harris County MUD No. 50
Water Plant Improvements
CFA Project No. 1612-043-09-01
Schier Project No. G19-1066

Billing Period: January 21 - February 20, 2020

ORIGINAL CONTRACT AMOUNT	**$1,328,690.00**
C.O. #1 - Add 5HP, 60 Gal Air Compressor	**$2,500.00**
Revised Contract Total	**$1,331,190.00**
Total Value of Work Complete and Material on Hand	**$387,380.00**
Less 5% Retainage	**($19,369.00)**
Amount Due to Date	**$368,011.00**
Less Previous Estimates	**$280,791.50**
Amount Due this Estimate	**$87,219.50**

Thank you,

SCHIER CONSTRUCTION CO., INC.

James E. Schier, P.E.
President

Harris County MUD No. 50 Schedule

NTP: 02/24/2020

Line	Manhole	Manhole	Size	Type	Length	Services	Street	Description	Pipe Burst	Service Reconnection	MH Rehab	Grease Removal	CIPP	Point Repair
1	114	113A	8	PVC	404	7	Gulf Pump Rd	Pipe Burst, MH Rehab	2/27/2020	2/27/2020				
2	192	193	10	PVC	342	7	Wisdom Rd	Pipe Burst, Rehab both MH's	2/26/2020	2/26/2020				
3	119	118	8			3	Nod Ave	MH Rehab, Install Services		3/2/2020				
4	57	196	8			0	Coy Dr	Point repair near MH 196, MH Rehab						2/28/2020
5	194	195	6	PVC	170	1	Barret Rd	Pipe Burst, MH Rehab	3/9/2020	3/10/2020				
6	198		6				Barret Rd	Grease Removal in MH 198				3/10/2020		
7	131	129	8	PVC	299	3	Barret Rd	Pipe Burst, MH Rehab	3/11/2020	3/12/2020				
8	88	87	8	CIPP	548	7	Arcadian Dr	Pipe Burst, MH Rehab	3/3/2020					
9	89	90	8	PVC	500	3	Pecan	Pipe Burst, MH Rehab	3/4/2020					
10	148	147	8	PVC	454	7	St. Charles	Pipe Burst, MH Rehab	3/18/2020	3/19/2020				
11		146	8				St. Charles	Grease Removal				3/19/2020		
12	54A	404	15	CIPP	298	2	Melville	Pipe Burst, Rehab both MH's, Root Removal	3/16/2020	3/17/2020				
13	72	71	15	CIPP	469	6	Oak St	Pipe Burst, MH Rehab						
14	36A	36	8	CIPP	273	4	Elm St	Pipe Burst, MH Rehab						
15	165A	165	8				Ridge	Rehab both MH'S, Rehab Invert 165A						
16	110	111	8	PVC	401	13	Red Oak	Pipe Burst, MH Rehab						
17	2	3	12	PVC	125	0	Magnolia	Pipe Burst, MH Rehab						
18	5	109	8	HDPE	294	0	Mulberry	Grease Removal in Line, Manhole Rehab						
19	47	48	8	PVC	442	1	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
20	48	50	8	PVC	340	0	Cosby Lyncburg	CIPP, MH Rehab						
21	50	52	8	PVC	439	3	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
22	52	54	10	PVC	353	2	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
23	54	52A	10	PVC	51	0	Cosby Lyncburg	CIPP, MH Rehab						
24	52A	55	10	PVC	259	3	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
25	55	54A	10	PVC	43	0	Cosby Lyncburg	CIPP, MH Rehab						
26	54A	56A	10	PVC	264	3	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
27	56A	57	10	PVC	146		Cosby Lyncburg	CIPP, MH Rehab						
28	57	201	10	PVC	36		Cosby Lyncburg	CIPP, MH Rehab						
29	201	58	10	PVC	123	3	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
30	58	58B	10	PVC	289	4	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
31	58B	58A	10	PVC	281	3	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
32	A	B	10	PVC	324	0	Cosby Lyncburg	CIPP, MH Rehab						
33	B	C	10	PVC	306	2	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
34	C	D	10	PVC	316	2	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
35	D	62	10	PVC	309	2	Cosby Lyncburg	CIPP, MH Rehab, Internal Service Connection						
36	62	63	10	PVC	313	0	Cosby Lyncburg	CIPP, MH Rehab						
37	62	117A	8	PVC	58	0	Cosby Lyncburg	CIPP, MH Rehab						
38	117A	113	8	PVC	310	0	Cosby Lyncburg	CIPP, MH Rehab						

Line	Manhole	Manhole	Size	Type	Length	Services	Street	Description	Pipe Burst	Service Reconnection	MH Rehab	Grease Removal	CIPP	Point Repair
39	113	198A	8	PVC	360	0	Cosby Lyncburg	CIPP, MH Rehab						
40	FM	MH	6	PVC	25	0	Bal Harbor	Force Main						
41	149	150	10	PVC	68	0	Zinn Drive	Pipe Burst, MH Rehab	3/23/2020	3/24/2020				
42	Lift Station	150	10	PVC	58	0	Zinn Drive	Pipe Burst, MH Rehab	3/23/2020	3/24/2020				
43	150	151	10	PVC	337	5	Zinn Drive	Pipe Burst, MH Rehab	3/25/2020	3/26/2020				
44	151	152	10	PVC	353	0	Zinn Drive	Pipe Burst, MH Rehab	3/30/2020	3/31/2020				
45	152	153	10	PVC	373	6	Zinn Drive	Pipe Burst, MH Rehab	4/1/2020	4/2/2020				
46	153	154	10	PVC	386	6	Zinn Drive	Pipe Burst, MH Rehab	4/6/2020	4/7/2020				
47	154	155	10	PVC	358	4	Zinn Drive	Pipe Burst, MH Rehab	4/8/2020	4/9/2020				
48	155	160	10	PVC	378	5	Zinn Drive	Pipe Burst, MH Rehab	4/13/2020	4/14/2020				
49	160	160A	10	PVC	401	5	Zinn Drive	Pipe Burst, MH Rehab	4/15/2020	4/16/2020				
50	160A	161	10	PVC	390	4	Zinn Drive	Pipe Burst, MH Rehab	4/20/2020	4/21/2020				
51	161	162A	10	PVC	398	5	Zinn Drive	Pipe Burst, MH Rehab	4/22/2020	4/23/2020				
52	162A	162	10	PVC	354	9	Zinn Drive	Pipe Burst, MH Rehab	4/27/2020	4/28/2020				
53	162	402	10	PVC	434	6	Zinn Drive	Pipe Burst, MH Rehab	4/29/2020	4/30/2020				

CobbFendley

March 3, 2020

Mr. & Mrs. Saltibus
12418 Judge Street
Crosby, Texas 77532

Re: Capacity Reservation for Utility Service at 12418 Judge Street
Saltibus Place

Dear Mr./Ms. Saltibus:

In response to your request for water and sewer service, Harris County Municipal Utility District No. 50 has considered your request for utility commitment to serve 2 equivalent single-family connections (ESFC) for residential homes, 1 existing and 1 proposed, located at 12418 Judge Street. The lot must be platted in order to obtain service.

Subject to the conditions set forth by the District, this is to certify and commit that the District has sufficient utility capacity to provide water and wastewater service in an amount not to exceed 500 gallons per day of wastewater and 518 gallons per day of water, or 2 equivalent single-family connection. This flow was calculated by the proposed development type based on the City of Houston equivalency chart, utilizing 250 gallons per day of wastewater flow and 259 gallons per day of potable water use per ESFC.

This reservation shall run for a term of one year from the date hereof. In the event that the development of improvements upon the tract is not commenced within such a time period, this reservation shall automatically terminate and expire. This reservation letter is not a purchase of allocated capacity. Capacity will be allocated once all agency approvals have been obtained for construction of the development.

Construction of water and wastewater facilities shall not commence until approved plans by all governmental agencies and recorded plat have been submitted to the District Engineer. The following items must be submitted to the Engineer for review:

1. Proposed Site Plan, Utility Plan and Profiles, and Drainage Plan Sealed by a Registered Professional Engineer
2. Recorded Plat
3. Harris County Commercial Development Plan Approval
4. Harris County Flood Control District Approval
5. Texas Department of Transportation Approval (if adjacent to TxDOT ROW)

Applicable tap fees will be calculated by the District's Operator, in accordance with the Rate Order, when an application for service is submitted by the property owner. Enclosed with this letter is a copy of the District's Rate Order, which sets forth the policies and charges of the District for water and sanitary sewer service. The Rate Order is subject to modification from time to time as deemed appropriate by the Board of Directors of the District.

This reservation does not guarantee you any specific quantity or pressure of water. Water production may be affected by matters outside the control of the District, including but not

limited to acts of God or permit or pumpage limitations of the Harris Galveston Subsidence District.

This capacity reservation is made for your benefit alone and is not assignable in whole or in part without the prior written consent of the District, which consent shall not be unreasonably withheld. Upon completion of development of the Tract in its entirety, any unused capacity shall revert to the District for its reallocation or other use at the sole discretion of the Board of Directors.

If you have any questions or comments concerning the above, please contact me at 713-462-3242.

Sincerely,

COBB, FENDLEY, & ASSOCIATES, INC.

Amber R. Hurd, P.E.
District Engineer

cc: Dara Eng, District Manager
Reginald Wilson, Jr., Norton Rose Fulbright

WATER UTILITY OPERATIONS

MUNICIPAL OPERATIONS & CONSULTING, INC.

MONTHLY OPERATIONS REPORT FOR Harris County MUD 50

Mar-20

Billing Date 01/05/2020 - 02/04/2020

WATER	January
Gallons pumped from WTP #1:	4,354,000
Gallons pumped from WTP #2:	3,567,000
Gallons pumped from WTP #3	1,551,000
Total Gallons Pumped:	**9,472,000**
Billed Gallons:	**7,087,000**
Loss to Leaks	350,000
Flushing	69,000
GST	0
Accountability	75%
Accountability w/ Leaks and Flushing	79%

	# Taken	Results
Bacteriological Samples:	5	Good

Water Taps Y-T-D - 0

WASTEWATER TREATMENT PLANT AND LIFT STATIONS

Permit # 1 TX0057053

Permit expiration date: June 28, 2023

	Excursion	December		Measured by:	
Average daily flow	YES	0.892097	Permitted Daily Flow	0.550	mgd
Average CBOD	NO	3.880	Permitted BOD	10	mg/l
Average Total Suspended Solids	NO	2.260	Permitted T.S.S.	15	mg/l
Average Ammonia Nitrogen	NO	0.121	Permitted Ammonia Nitrogen	3	mg/l
Average PH	NO	7.510	Permitted PH	6.00 - 9.00	STD UNIT
Maximum Chlorine Residual	NO	3.630	Permitted Chlorine Maximum	4.0	mg/l
Minimum Chlorine Residual	NO	1.010	Permitted Chlorine Minimum	1.0	mg/l
Average Dissolved Oxygen	NO	9.320	Permitted Dissolved Oxygen	4.0	mg/l
Average E. coli	NO	1.000	Permitted E. coli	126.0	mpn
Daily max flow		2.137			
2hr peak flow		1,528 gpm	Permited 2hr peak flow	910	gpm

Sewer Treatment plant is currently operating at 162% of the permitted capacity

Rainfall for the Month: 7.2 Inches

WASTEWATER TREATMENT PLANT AND LIFT STATIONS

Permit # 2 TX0136174

Permit expiration date: June 28, 2023

	Excursion	December		Measured by:	
Average daily flow	NO	0.080803	Permitted Daily Flow	0.090	mgd
Average CBOD	NO	3.370	Permitted BOD	10	mg/l
Average Total Suspended Solids	NO	2.280	Permitted T.S.S.	15	mg/l
Average Ammonia Nitrogen	NO	0.052	Permitted Ammonia Nitrogen	3	mg/l
Average PH	NO	7.020	Permitted PH	6.00 - 9.00	STD UNIT
Maximum Chlorine Residual	NO	3.960	Permitted Chlorine Maximum	4.0	mg/l
Minimum Chlorine Residual	NO	1.060	Permitted Chlorine Minimum	1.0	mg/l
Average Dissolved Oxygen	NO	7.950	Permitted Dissolved Oxygen	4.0	mg/l
Average E. coli qtrl	NO	1.000	Permitted E. coli	126.0	mpn /qtr.
Daily max flow		0.202			
2hr peak flow		285 gpm	Permited 2hr peak flow	250	gpm

Sewer Treatment plant is currently operating at 89% of the permitted capacity

Rainfall for the Month: 7.2 Inches

Exidances WWTP #1 : 2Hr Peak flow violation
Exidances WWTP #1 : Exceeded Dailiy average flow for WWTP
Exidances WWTP #2 : 2Hr Peak flow violation

SPRING OFFICE: 27316 SPECTRUM WAY · OAK RIDGE NORTH, TEXAS 77385 · T 281.367.5511 · F 281.367.5517
KATY OFFICE: 1825 N. MASON ROAD · KATY, TEXAS 77449 · T 281.347.8686 · F 281.347.8863
WWW.MUNICIPALOPS.COM

Harris County MUD 50

Well #1

01/05/2020 - 02/04/2020

Date	Well Flow	Well Pumpage
1/5/2020	48521	230
1/6/2020	48686	165
1/7/2020	48867	181
1/8/2020	49071	204
1/9/2020	49220	149
1/10/2020	49477	257
1/11/2020	49477	0
1/12/2020	49477	0
1/13/2020	49477	0
1/14/2020	49477	0
1/15/2020	49743	266
1/16/2020	49874	131
1/17/2020	50007	133
1/18/2020	50246	239
1/19/2020	50321	75
1/20/2020	50447	126
1/21/2020	50612	165
1/22/2020	50863	251
1/23/2020	51007	144
1/24/2020	51205	198
1/25/2020	51295	90
1/26/2020	51421	126
1/27/2020	51421	0
1/28/2020	51515	94
1/29/2020	51607	92
1/30/2020	51780	173
1/31/2020	52036	256
2/1/2020	52175	139
2/2/2020	52424	249
2/3/2020	52553	129
2/4/2020	52645	92
Total Pumpage		4,354,000

Harris County MUD 50

Well #2

01/05/2020 - 02/04/2020

Date	Well Flow	Well Pumpage
1/5/2020	33700	26
1/6/2020	33855	155
1/7/2020	33986	131
1/8/2020	34150	164
1/9/2020	34193	43
1/10/2020	34313	120
1/11/2020	34589	276
1/12/2020	34836	247
1/13/2020	35114	278
1/14/2020	35261	147
1/15/2020	35304	43
1/16/2020	35468	164
1/17/2020	35581	113
1/18/2020	35641	60
1/19/2020	35705	64
1/20/2020	35810	105
1/21/2020	35828	18
1/22/2020	35887	59
1/23/2020	35887	0
1/24/2020	36069	182
1/25/2020	36156	87
1/26/2020	36259	103
1/27/2020	36494	235
1/28/2020	36688	194
1/29/2020	36874	186
1/30/2020	36874	0
1/31/2020	36874	0
2/1/2020	36977	103
2/2/2020	37009	32
2/3/2020	37155	146
2/4/2020	37241	86
Total Pumpage		3,567,000

Harris County MUD 50

Well #3

01/05/2020 - 02/04/2020

Date	Well Flow	Well Pumpage
1/5/2020	11055	92
1/6/2020	11076	21
1/7/2020	11155	79
1/8/2020	11199	44
1/9/2020	11307	108
1/10/2020	11317	10
1/11/2020	11331	14
1/12/2020	11342	11
1/13/2020	11360	18
1/14/2020	11417	57
1/15/2020	11432	15
1/16/2020	11438	6
1/17/2020	11531	93
1/18/2020	11531	0
1/19/2020	11671	140
1/20/2020	11719	48
1/21/2020	11814	95
1/22/2020	11814	0
1/23/2020	11886	72
1/24/2020	11901	15
1/25/2020	11966	65
1/26/2020	12018	52
1/27/2020	12111	93
1/28/2020	12142	31
1/29/2020	12172	30
1/30/2020	12264	92
1/31/2020	12285	21
2/1/2020	12332	47
2/2/2020	12407	75
2/3/2020	12432	25
2/4/2020	12514	82
Total Pumpage		1,551,000

Consumption

From **01/05/2020** To **02/04/2020** using **End Reading Date**

Summary

Rate Code	Billing Type	Consumption
01-S (Residential Sewer)	SEW (Sewer)	5,486.0
01-W (Residential Water)	WAT (Water)	[redacted]
02-S (Residential-Out/Dist. Sewer)	SEW (Sewer)	912.2
02-W (Residential-Out/Dist. Water)	WAT (Water)	[redacted]
03-W (Water Only Water)	WAT (Water)	[redacted]
05-S (Commercial Sewer)	SEW (Sewer)	190.0
05-SNB (Commercial Sewer - Extra Meter)	SEW (Sewer)	83.0
05-W (Commercial Water)	WAT (Water)	[redacted]
05-WNB (Commercial Water Extra Meter)	WAT (Water)	[redacted]
06-S (Commercial-Out/Dist. Sewer)	SEW (Sewer)	7.0
06-W (Commercial-Out/Dist. Water)	WAT (Water)	[redacted]
50-S (Multi-Family Sewer)	SEW (Sewer)	61.9
50-W (Multi-Family Water)	WAT (Water)	[redacted]
55-S (Car Wash/Laundromat Sewer)	SEW (Sewer)	144.0
55-W (Car Wash/Laundromat Water)	WAT (Water)	[redacted]
60-S (Schools Sewer)	SEW (Sewer)	48.0
60-W (Schools Water)	WAT (Water)	[redacted]
61-S (Schools-Out/Dist. Sewer)	SEW (Sewer)	9.0
61-W (Schools-Out/Dist. Water)	WAT (Water)	[redacted]
	Total	14,029.0

Water = 7,087

WATER UTILITY OPERATIONS

MOC

MUNICIPAL OPERATIONS & CONSULTING, INC.

March 3, 2020

Board of Directors
Harris County MUD 50
1301 McKinney, Suite 5100
Houston, Texas 77010

RE: Red Flag Policy – Annual Report for Harris County MUD 50

Dear Directors:

This 2019 annual "Red Flag Policy" report is to certify the following:

- Harris County Mud 50 has to the best of our knowledge taken actions to protect the customer's identity in Harris County MUD 50. The policies of this Company comply with the District's policies established in the District's Red Flag Policy Rule.
- Harris County Mud 50 customer service representatives are trained regarding the collection, handling and verification of customer information. Our practices are in accordance with the District's Red Flag Policy.
- The Red Flag Policy has been effective in that there have been no significant red flag events.
- Harris County Mud 50 does not recommend any changes at this time.
- There have been no Red Flag incidents reported.

Sincerely,

Dara Eng – District Manager

Municipal Operations and Consulting, Inc.
"Red Flag" (Identity Theft) Policy

It is the policy of the Company to follow all federal and state laws and reporting requirements regarding Identity Theft. Specifically, this policy outline how the Company will (1) identify, (2) detect and (3) respond to "Red Flags". A "Red Flag" as defined by this policy includes a pattern, practice, or specific account or record activity that indicates possible identity theft.

It is the policy of the Company that all members of our workforce be adequately trained on policies and procedures governing compliance with the Red Flag Rules pertaining to our business as outlined by the Federal Trade Commission as enacted under the "Red Flag Program clarification Act of 2010".

Procedures

I. **Identify Red Flags.** In the course of daily business, employees may encounter inconsistent or suspicious documents, information or activity relating to customer documents and transactions that may signal identity theft. The Company identifies the flowing as potential red flags and this policy includes procedures describing how to detect and respond to these Red Flags below:

1. Employees shall be alert to suspicious activity such as, but not limited to:

    a. **Suspicious Documents**. Documents can offer hints of identity theft:
        1. identification looks altered or forged
        2. the person presenting the identification doesn't look like the photo or match the physical description
        3. information on the identification differs from what the person with identification is telling you
        4. an application looks like it's been altered, forged, or torn up and reassembled

    b. **Personal Identifying Information**. Personal identifying information can indicate identity theft:
        1. inconsistencies with what you know
        2. inconsistencies in the information a customer has submitted to you
        3. an address, phone number, or other personal information already used on an account you know to be fraudulent
        4. a bogus address, an address for a mail drop or prison, a phone number that's invalid, or one that's associated with a pager or answering service
        5. a Social Security number used by someone else opening an account

6. an address or telephone number used by several people opening accounts
7. a person who omits required information on an application and doesn't respond to notices that the application is incomplete
8. a person who can't provide authenticating information beyond what's generally available from a wallet or credit report — for example, someone who can't answer a challenge question

c. **Account Activity**. How the account is being used can be a tip-off to identity theft:
   1. shortly after you're notified of a change of address, you're asked for new or additional credit cards, or to add users to the account
   2. a new account used in ways associated with fraud — for example, the customer doesn't make the first payment, or makes only an initial payment
   3. an account used outside of established patterns — for example, nonpayment when there's no history of missed payments an account that is inactive is used again
   4. mail sent to the customer that is returned repeatedly as undeliverable although transactions continue to be conducted on the account
   5. information that the customer isn't receiving an account statement by mail or email

d. **Notice from Other Sources.** A customer, a victim of identity theft, a law enforcement authority, or someone else may be trying to tell you that an account has been opened or used fraudulently.

II. **Report Red Flags**. Company Employees shall act upon suspicious activities or evidence of identity theft as appropriate by gathering all documentation and report the incident to their immediate supervisor. The supervisor will determine the appropriate counter measures to employ to mitigate the potential impact of the suspicious activity.

III. Detecting Red Flags

a. New Accounts: To detect any of the Red Flags identified above associated with the opening of new account, District personnel will take one or more of the following steps to monitor transactions with an account:
   i. Require certain identifying information such as name, date of birth, residential or business address, principal place of business for an entity, driver's license or other identifications;
   ii. Verify the customers identity (for instance, review a driver's license or other identification card);

iii. Review documents showing the existence of a business entity;

b. Existing Accounts: To detect any of the Red Flags identified above for an existing account, District personnel will take one or more of the following steps to monitor transactions with an account:
    i. Verify the identification of customers if they request information (in person, via telephone, via facsimile, vis email)
    ii. Verify the validity of requests to close accounts or change billing addresses; and
    iii. Verify changes in banking information given for billing and payment purposes.

IV. Preventing and mitigating identity theft: To Further prevent the likelihood of identity theft occurring with respect to the Districts accounts, the District Personnel will execute the following internal operating procedures to protect Identifying Information.

a. Ensure that any website through which or by the which an exchange of information may be made is secure or provided clear notice that the website is not secure;
b. As allowed by law, ensure complete and secure destruction of paper documents and computer files containing customer information;
c. Ensure that office computers on which Covered account information is stored or may be accessed are password protected and that the computer screens lock after a set period of time;
d. Change passwords of office computers on which covered account information is stored or may ne accessed on a regular on a regular basis;
e. Ensure all computers on which covered account information is stored or may be accessed are backed up properly and any backup information is secured;
f. Keep office clear or papers containing customer information;
g. Request only the last 4 digits of social security numbers (if any)
h. Ensure computer virus protection is up to date for any computer on which covered account information is stored or may be accessed; and
i. Require and keep only the kinds of customers information that are necessary for districts purposes.

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 50

12900 Crosby-Lynchburg Road
Barrett Station, Texas 77532
Phone: (281) 328-2041 · Fax: (281) 328-5750

District Matters

Web Subscriptions	**199 out of 1,440**
Collections Unlimited	**$3,274.19 reported as paid**
	Total: $157,628.78 / 663 Accounts
Smart Meters	**1,512**
Active Accounts	**1,440 as of 2/12/20**
Billed Customers	**1,437 (Usages between 1/4 to 2/4)**
Delinquent Customers	**2/27 – 142 customers totaling $18,333.09**
	1/23 - 222 customers totaling $45,057.50

Office

11/19 MOC Sweep Start

Conferences

TRWA March 25-27(Wed-Fri)

Martin / Andrew / Dara / Daryl

AWBD June 11-14 (Thur-Sun)

Martin / Andrew / Dara / Daryl / Alice

Upcoming

Billing Updated Bill expected to be more user-friendly

Inserts District Updates and Reminders

Harris County Municipal Utility District #50
02/26/2020

	Account Number	Service Address	Billing Type	Penalty Date	Balance	Past Due	Amount	Meter Number	PAID
1	160082014	114 REUBEN WHITE DR	DOOR TAG	02/26/2020	$ 668.74	$ 101.21	10	47894097	
2	160098003	328 REUBEN WHITE DR	DOOR TAG	02/26/2020	$ 1,096.85	$ 1,037.00	10	48396913	
3	160114003	542 REUBEN WHITE DR	DOOR TAG	02/26/2020	$ 141.55	$ 71.70	10	48396933	
4	160218004	119 RIDGE DR	DOOR TAG	02/26/2020	$ 198.70	$ 138.85	10	12889214	
5	160282009	427 ZINN DR	DOOR TAG	02/26/2020	$ 231.06	$ 167.59	10	48083065	
6	160300005	335 ZINN DR	DOOR TAG	02/26/2020	$ 206.96	$ 139.87	10	1603000	
7	160306001	255 ZINN DR	DOOR TAG	02/26/2020	$ 352.73	$ 292.88	10	94147125	
8	160348001	620 E ST CHARLES DR	DOOR TAG	02/26/2020	$ 149.70	$ 89.85	10	1603480	
9	160363102	431 E ST CHARLES DR	DOOR TAG	02/26/2020	$ 181.13	$ 110.43	10	47748052	
10	160621002	347 COTTONTAIL # B	DOOR TAG	02/26/2020	$ 170.10	$ 100.25	10	190084504	
11	160803003	13017 CROSBY LYNCHBURG RD	DOOR TAG	02/26/2020	$ 161.72	$ 99.36	10	1608030	
12	161049004	214 LE BLANC	DOOR TAG	02/26/2020	$ 282.14	$ 212.29	10	5202984	
13	161084002	13210 BLANCHARD DR	DOOR TAG	02/26/2020	$ 571.23	$ 581.23	10	48339676	OFF
14	161192003	302 BLINKIN AVE	DOOR TAG	02/26/2020	$ 156.70	$ 96.85	10	17175611	
15	161275003	308 DREAMLAND	DOOR TAG	02/26/2020	$ 163.87	$ 104.02	10	47948826	
16	161503006	230 CYPRESS DR	DOOR TAG	02/26/2020	$ 156.55	$ 96.70	10	79061377	
17	161530005	512 CYPRESS DR	DOOR TAG	02/26/2020	$ 239.05	$ 130.60	10	10070877	
18	161766008	508 MAGNOLIA AVE	DOOR TAG	02/26/2020	$ 448.03	$ 362.03	10	1617660	OFF
19	161800004	714 MAGNOLIA AVE	DOOR TAG	02/26/2020	$ 844.55	$ 424.11	10	47921895	
20	161960001	115 MELVILLE DR W	DOOR TAG	02/26/2020	$ 157.32	$ 97.47	10	16031455	
21	161990010	12010 LLOYD AVE	DOOR TAG	02/26/2020	$ 170.11	$ 110.26	10	48847185	
22	162027002	12302 PENN ST	DOOR TAG	02/26/2020	$ 157.55	$ 97.70	10	1620270	
23	162354006	321 REUBEN WHITE DR	DOOR TAG	02/26/2020	$ 154.40	$ 94.55	10	8122392	
24	162361006	643 ZINN -TRAILER #1	DOOR TAG	02/26/2020	$ 189.13	$ 122.04	10	12052075	
25	163380001	13618 SPECTACLED BEAR LN	DOOR TAG	02/26/2020	$ 176.67	$ 111.82	10	17177199	
26	168026006	700 FM 1942 RD./B-4	DOOR TAG	02/26/2020	$ 115.50	$ 76.25	10	78800193	
				TOTAL	**$ 7,542.04**	**$ 5,066.91**			

Directors

From **03/03/2020** To **03/03/2020**

Counts

Total Connections	1,659
Total Meters	1,513
Active Connections	1,444

New Accounts	2
Closed Accounts	1

Final Bills	0

Meters	1,513
1	6
1.5	3
2	11
3	1
5/8	1,489
GEN	3

Distribution Efficiency Summary

		Units	Percentage
WAT	Supplied	0.00	100.00%
	Sold	0.00	0.00%
	Lost	0.00	100.00%
	Parcels using WAT	0	
	Average Usage per Parcel	0.00	

Monthly Activity

Item	Amount
Balance Due Through 03/02/20	$269,289.80
Payments	($4,114.02)
Credit Adjustments (Decreases AR)	$0.00
Debit Adjustments (Increases AR)	$120.00
Balance After Payments and Adjustments	$265,295.78
Bills (includes applicable taxes)	$0.00
Returned Checks	$0.00
Late Fees (Includes applicable taxes)	$0.00
Balance Due as of 03/03/20	$265,295.78