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## MEMORANDUM

DATE: May 13, 2019

TO: Reginald Wells, Director Reginald Wells Digitally signed by Reginald Wells Date: 2019.05.20 14:42:23 -0400  
Department of Watershed Management

THROUGH: Kerry Williams, P.E., PMP, Engineering Manager Kerry Williams, P.E., PMP Digitally signed by Kerry Williams, P.E., PMP Date: 2019.05.20 14:42:23 -0400  
Department of Watershed Management

FROM: Kian Baniassad, Staff Engineer Sr./Project Manager  
Department of Watershed Management

SUBJECT: Rehabilitation of the Leeshire and Hammer Mill # 3 lift stations

Dekalb County Consent Decree mandates that the rehabilitation work on all the lift stations must be completed by Dec 31, 2019. Back in 10/2/2017 SOL Construction was given a contract (#1073322) valued at \$5,705,060 to rehab five stations and replace a force main (Stone Mill-1, Stone Mill-2, Penny Brook, Fourth Street, Lewis Way and the Force Main at Penny Brook). The expiration date for their contract was indicated as December 31, 2019. By December 18, 2018 all five stations and the force main achieved substantial completion and operation took beneficial use of the stations. At the end of the original scope we were left with \$1,198, 309.21 in that contract that could be used for other projects. Faced with a deadline of 12/31/2019 DWM seeks to ratify the remaining funds in contract #1073322 toward other pressing lift station projects as follows:

### LEESHIRE LIFT STATION:

Leeshire Lift Station is a very old and dilapidated below ground station that was supposed to be switched to gravity by December 2019. Due to logistical constraints and difficulty acquiring the required easements for the gravity line, by October 2018, it became obvious that Leeshire station could not be eliminated and switched to gravity by the referenced date. Consequently, to meet the Consent Decree requirements, DWM decided to rehab that station instead. During the planning phase DWM Operations suggested that we replace the existing station with a submersible station. The idea was to reuse the existing wet well and replace the below ground station with a submersible system that is user-friendly, would require less maintenance and is much safer to operate. To meet the December 31, 2019 deadline and since we had funds available in our contract with SOL, DWM decided to fast track this project and get it done under

the Contract #1073322. The design is complete, and we are waiting to receive the submittals for the pumps. The pumps are long lead items and have a 14-16 weeks lead time. With that in mind, the construction would start mid-October. Followings are the pictures of the existing station and the cost proposal from SOL Construction. This project is being constructed using the available funds in contract #1073322 with SOL Construction.

<b>2018 Consent Decree Lift Station Rehab</b>				
<b>SOL Construction Cost Schedule Leeshire LS Rehabilitation</b>				
	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Total Cost</b>
1	Construction Survey	LS	1	\$3,880.00
2	Soil/Conc Testing	LS	1	\$5,565.00
3	Utility Locate (pot holing)	LS	1	\$3,488.00
4	Erosion Control	LS	1	\$3,484.00
5	Remove ww top and clean WW	LS	1	\$4,337.09
6	Remove existing equipment	LS	1	\$1,160.00
7	Demo existing pads, slab and Hauling	LS	1	\$21,478.00
8	Abandon dry well and pipes	LS	1	\$5,276.84
9	Wet well invert	LS	1	\$6,762.00
10	Concrete slab and repairs	LS	1	\$18,700.27
11	Fencing	LS	1	\$13,680.00
12	Equipment Pads	LS	1	\$4,368.40
13	Bypass	LS	1	\$38,432.87
14	Bollards	LS	1	\$1,742.80
15	Wet Well Coatings	LS	1	\$12,200.00
16	Paint Exposed Piping	LS	1	\$1,820.00
17	Pumps	LS	1	\$131,485.20
18	Water Main	LS	1	\$5,770.00
19	FM connection piping and Valves	LS	1	\$19,411.40
20	Control Panel Shelters	LS	1	\$10,962.00
21	Electrical	LS	1	\$50,600.00
22	Generator	LS	1	\$2,225.60
23	SCADA	LS	1	\$23,536.00
24	Project Management	LS	1	\$5,200.00
25	Final Design & Eng. Servs	LS	1	\$38,980.00
26	Permitting	LS	1	\$1,480.00
27	Security	LS	1	\$2,806.43
28	Community Outreach	LS	1	\$2,357.00
		Subtotal		\$441,188.90
		Mark UP	18.0%	\$79,414.00
		<b>Total</b>		<b>\$520,602.90</b>

LEESHIRE LIFT STATION PICTURES OF THE EXISTING CONDITION:





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## **Hammer Mill #3 LIFT STATION**

To meet the Consent Decree requirements the pump station at Hammer Mill #3 was replaced by Dekalb County C&M but was not finished. The pad was not installed, and to secure the station a new fence was in order. This project was also fast tracked to meet the December 31, 2019 deadline. This project was completed using the available funds in contract #1073322. Again, to meet the consent decree deadline of 12/31/2019 this project was started, fast tracked and finished so that we could concentrate on the Leeshire station. The followings are the pictures of the before and after construction and the final cost spreadsheet.

<b>2018-2019 Consent Decree Lift Station Rehab</b>					
<b>SOL Construction Cost Schedule for Hammer Mill #3 Rehabilitation Estimate</b>					
	Description	Unit	Quantity	Unit Price	Extension
1	Excavation, grading and subgrade preparation	LS	1	\$15,000.00	\$15,000.00
2	Install formwork and rebar	LS	1	\$18,000.00	\$18,000.00
3	Install 6" concrete pad and driveway and curb	LS	1	\$48,000.00	\$48,000.00
4	Install geotextile and rip rap along existing bank	LS	1	\$5,000.00	\$5,000.00
5	Repair stormwater structure	LS	1	\$6,675.00	\$6,675.00
6	Install Chain link fence	LS	1	\$22,540.00	\$22,540.00
7	Install downturn next the retaining wall	LS	1	\$8,727.00	\$8,727.00
8	Install RPZ and yard hydrant	LS	1	\$4,312.00	\$4,312.00
10	Clearing and install rip rap	LS	1	\$6,593.00	\$6,593.00
11	Install awning for electrical rack	LS	1	\$14,831.00	\$14,831.00
12	Bollards	LS	1	\$5,255.00	\$5,255.00
13	Adjust emergency bypass connection	LS	1	\$1,018.00	\$1,018.00
				<b>Total</b>	<b>\$155,951.00</b>

### **HAMMER MILL #3 LIFT STATION BEFORE PICTURES:**





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**HAMMER MILL #3 LIFT STATION AFTER PICTURES:**





# PROJECT SCHEDULE

Task	Task Name	Duration	Start	Finish	Predecessors	Test
0	• 2018-02-23 2018- consent decree PS Rev 3	564 days	Tue 10/10/17	Fri 12/6/19		
1	✓ • 2018 Consent Decree Lift Station Improvement Contract # 1073322	920 days	Tue 10/10/17	Mon 12/31/18		Project Was Completed on Schedule
2	✓ Penny Brook Forfeiture	223 days	Tue 10/10/17	Thu 8/16/18		Project Was Completed on Schedule
3	✓ Penny Brook Lift Station	223 days	Tue 10/10/17	Thu 8/16/18		Project Was Completed on Schedule
4	✓ Lewis Way 11ft Station	191 days	Tue 10/10/17	Tue 11/20/18		Project Was Completed on Schedule
5	✓ Fourth Street Lift Station	291 days	Tue 10/10/17	Tue 11/20/18		Project Was Completed on Schedule
6	✓ Stone Mill- 1 Lift Station	320 days	Tue 10/10/17	Mon 12/31/18		Project Was Completed on Schedule
7	✓ Stone Mill- 2 Lift Station	320 days	Tue 10/10/17	Mon 12/31/18		Project Was Completed on Schedule
8						
9	• Additional Work Added to Contract # 1073322	278 days	Wed 11/14/18	Fri 12/6/19		No Cost Scope Change
10	✓ Hammer Mill #3 Lift Station	92 days	Mon 12/3/18	Tue 4/9/19		Installed a concrete pad, stabilized the ground, installed new fence and gates, installed new catch basin, installed a canopy over the electrical lock. Planning to replace the existing below ground station with a new submersible station utilizing the existing wet well. This is a Consent Decree mandated project and must be completed by 12/31/2019.
11	• Leeshire Lift Station	278 days	Wed 11/14/18	Fri 12/6/19		
12	Leeshire Design	120 days	Wed 11/14/18	Tue 4/30/19		
13	Leeshire Pump Station Fabrication	100 days	Mon 5/6/19	Mon 9/30/19	12	
14	Leeshire Rehab construction	140 days	Mon 5/27/19	Fri 12/6/19	12	