Lexington-Fayette Urban County Government
Cost Opinion for Town Branch WWTP Primary Digester Complex Improvements
December 7, 2016

			NFPA COMPLIANT			BASE UPGRADE		
			Quantity	Installed Cost	Assumption/Notes	Quantity	Installed Cost	Assumption/Notes
DIGESTER EQUIPMENT	Digester Covers	*Steel Floating (New)*	2	$ 1,800,000	Evoqua	2	$ 1,800,000	Evoqua
		Membrane	1	$ 790,000	Evoqua	1	$ 790,000	Evoqua
	Mixing Equipment	*Chopper Pump/Nozzles*	3	$ 575,000	Vaughan	3	$ 575,000	Vaughan
		Piping and Valves		$ 100,000			$ 100,000	
	Sludge Pumps and Piping	*Recirculation Pumps*	3	$ 75,000	Wemco	3	$ 75,000	Wemco
		Back-up Withdrawal Pumps	2	$ 75,000	Boerger	2	$ 75,000	Boerger
		Piping and Valves		$ 650,000	To Engine/Blower Building		$ 600,000	Replace Existing
	Gas Safety Equipment	*Standard Scope with Waste Gas Burner*		$ 675,000	Varec		$ 675,000	Varec
		Piping and Valves		$ 200,000	To Engine/Blower Building		$ 150,000	Replace Existing
	Sludge Heating	*Boiler*	2	$ 865,000	Evoqua	3	$ 960,000	Evoqua Combination Unit
		Heat Exchanger	3	$ 155,000	Alfa Laval			
		Sludge Grinder	3	$ 80,000	JWC Environmental			
		Water Circulation Pump	2	$ 40,000	In Engine/Blower Building			
Electrical Improvements				$ 550,000			$ 500,000	
Structural Improvements		*Digester Repairs*		$ 570,000			$ 570,000	
		Doors and Windows		$ 85,000			$ 85,000	
		Digester Building Roof		$ 130,000			$ 130,000	
		Digester Building NFPA Modifications		$ 440,000			$ -	N/A
		Engine Blower Building Modifications		$ 40,000			$ -	N/A
HVAC Improvements		*Digester Building*		$ 220,000			$ 235,000	
		Engine Blower Building		$ -	No improvements required		$ -	N/A
Plumbing Improvements		*Floor Drains, Sinks, Bathrooms, etc*		$ 50,000			$ 50,000	
Painting		*Walls, Piping, etc*		$ 150,000			$ 150,000	
Demolition				$ 100,000			$ 60,000	
		SUBTOTAL		$ 8,415,000			$ 7,580,000	
		BONDS AND INSURANCE (8%)		$ 675,000			$ 605,000	
		SUBTOTAL		$ 9,090,000			$ 8,185,000	
		CONTINGENCIES (15%)		$ 1,365,000			$ 1,230,000	
		TOTAL		$ 10,455,000			$ 9,415,000	
				Potential Savings			Potential Savings	
Piping and Valves		*Reuse Some Existing*		$ (300,000)			$ (300,000)	
Covers		*Rehab Two Existing Steel Covers*		$ (800,000)			$ (800,000)	
Sludge Heating		*Rehab Existing Combination Units as Boilers*		$ (415,000)			$ (440,000)	
		TOTAL SAVINGS AVAILABLE (Including Bonds, Insurance, and Contingencies)		$ (1,880,000)			$ (1,915,000)	
		TOTAL WITH SAVINGS		$ 8,575,000			$ 7,500,000	