

Highlights from Cheryl Porter, Chief Operating Officer - Water & Field Services

The Wastewater Operations Area *Pumping (Lift) Stations* strategic initiatives include the following.

❖ Maximize pumping reliability

Regularly scheduled preventive maintenance is necessary and required to maintain the condition of all pumping (lift) stations.

❖ Minimize energy usage

Energy consumption is dependent on flow rate, total pressure, climate and overall pump efficiency. Energy can be minimized through proper preventive maintenance in order to maintain the condition of all pumping (lift) stations.

Biennial Budget Request

The biennial budget reflects an overall decrease in FY 2022 of \$216,800. Key factors that impact the FY 2022 budget include the following.

- Energy consumption being directly proportional to the unit cost of power and the actual power used by the lift station pumps (increase of \$27,500).
- Contractual services decrease by \$34,300 based on updated estimate for as-needed expert opinion services.
- Annual maintenance costs vary, depending on the complexity of the equipment and instrumentation. New forecast in usage result in a decrease of \$211,300.

Biennial Budget Request by Expense Category

				FY 2021		FY 2021		FY 2022		FY 2022	FY 2022			FY 2023
	FY 2020		Adopted		Activity as of			epartment		Dollar	Percent		Department	
Expense Category	Actual		Budget		09.30.2020		Requested			Variance	Variance		Requested	
3.1 Electric	\$	2,148,000	\$	2,109,500	\$	841,472	\$	2,137,000	\$	27,500	1.3	%	\$	2,134,900
3.2 Gas		13,600		29,000		440		24,000		(5,000)	-17.2	%		24,000
3.3 Sewage Service		8,700		10,500		1,632		9,000		(1,500)	-14.3	%		9,000
3.4 Water Service		66,400		56,000		16,980		67,500		11,500	20.5	%		67,500
4.2 Supplies & Other		698,700		897,500		533,379		686,200		(211,300)	-23.5	%		686,200
4.3 Contractual Services		4,700		62,500		2,005		28,200		(34,300)	-54.9	%		28,200
5.2 Shared Services		(554,400)		(180,800)		(45,201)		(184,500)		(3,700)	2.0	%		(188,200)
Grand Total	\$	2,385,700	\$	2,984,200	\$	1,350,706	\$	2,767,400	\$	(216,800)	-7.3	%	\$	2,761,600



Biennial Budget Request by Team

		F	FY 2021		FY 2021		FY 2022		FY 2022	FY 2022		FY 2023
	FY 2020	Ad	Adopted		ivity as of	De	epartment		Dollar	Percent	De	epartment
Team	Actual	В	Budget 09.30.2020		9.30.2020	Requested		1	Variance	Variance	R	equested
Pumping Stations												
- Wastewater Operations	\$ 2,385,700	\$	2,984,200	\$	1,350,706	\$	2,767,400	\$	(216,800)	-7.3%	\$	2,761,600
Detroit-owned												
Pumping Stations	(310,800)	188,700		5,820		121,900		(66,800)	-35.4%		118,200
Belle Isle Pumping Station	(138,900)	(6,000)		(8,208)		(8,800)		(2,800)	46.7%		(10,000)
Blue Hill Pumping Station	(67,000)	132,500		12,111		99,200		(33,300)	-25.1%		97,700
Fischer Pumping Station	(30,900)	(5,100)		(2,304)		300		5,400	-105.9%		100
Woodmere Pumping Station	(74,000)	67,300		4,221		31,200		(36, 100)	-53.6%		30,400
Conner Pumping Station	645,200		870,000		195,003		725,000		(145,000)	-16.7%		725,000
Fairview Pumping Station	493,400		535,000		349,557		555,000		20,000	3.7%		555,000
Fox Creek Pumping Station	700		2,000		84		1,000		(1,000)	-50.0%		1,000
Freud Pumping Station	466,000		357,500		199,673		390,500		33,000	9.2%		390,500
Northeast Pumping Station	983,700		748,000		565,693		796,000		48,000	6.4%		793,900
Oakwood Pumping Station	107,500		283,000		34,876		178,000		(105,000)	-37.1%		178,000
Grand Total	\$ 2,385,700	\$:	2,984,200	\$	1,350,706	\$	2,767,400	\$	(216,800)	-7.3%	\$	2,761,600

Personnel Budget

Personnel budget is not a component of the Wastewater Operations Area Pumping (Lift) Stations.

Five Year Financial Plan

Five-Year Financial Plan by Expense Category

	FY 2021		FY 2021 FY 2021		FY 2021		FY 2022 FY 2022		FY 2022		FY 2023		FY 2024		FY 2025		FY 2026												
	Adopted		dopted Activi		Department		Dollar		Percent	Department		Department		Department		Department													
Expense Category		Budget	0	9.30.2020		Requested		Variance	Variance		Requested	R	Requested		Requested		Requested		Requested		Requested		equested		Requested		Requested	Requested	
3.1 Electric	\$	2,109,500	\$	841,472	\$	2,137,000	\$	27,500	1.3%	\$	2,134,900	\$	2,134,900	\$	2,134,900	\$	2,134,900												
3.2 Gas		29,000		440		24,000		(5,000)	-17.2%		24,000		24,000		24,000		24,000												
3.3 Sewage Service		10,500		1,632		9,000		(1,500)	-14.3%		9,000		9,000		9,000		9,000												
3.4 Water Service		56,000		16,980		67,500		11,500	20.5%		67,500		67,500		67,500		67,500												
4.2 Supplies & Other		897,500		533,379		686,200		(211,300)	-23.5%		686,200		686,200		686,200		686,200												
4.3 Contractual Services		62,500		2,005		28,200		(34,300)	-54.9%		28,200		28,200		28,200		28,200												
5.2 Shared Services		(180,800)		(45,201)		(184,500)		(3,700)	2.0%		(188,200)		(192,000)		(196,000)		(199,600)												
Grand Total	\$	2,984,200		1,350,706	\$	2,767,400	\$	(216,800)	-7.3%	\$	2,761,600	\$	2,757,800	\$	2,753,800	\$	2,750,200												



Five-Year Financial Plan by Team

	FY 2021 FY 2021		FY 2021		FY 2022		FY 2022	FY 2022	FY 2023		FY 2024		FY 2025			FY 2026	
		Adopted	Α	ctivity as of	D	epartment		Dollar	Percent	Department		Department		Department		De	partment
Team		Budget	09.30.2020		2020 Requested		Variance		Variance	Requested		Requested		Requested		R	equested
Detroit-owned																	
Pumping Stations	\$	188,700	\$	5,820	\$	121,900	\$	(66,800)	-35.4%	\$	118,200	\$	114,400	\$	110,400	\$	106,800
Belle Isle Pumping Station		(6,000)	\$	(8,208)		(8,800)		(2,800)	46.7%		(10,000)		(11,200)		(12,400)		(13,600)
Blue Hill Pumping Station		132,500		12,111		99,200		(33,300)	-25.1%		97,700		96,100		94,500		92,900
Fischer Pumping Station		(5,100)		(2,304)		300		5,400	-105.9%		100		(200)		(500)		(700)
Woodmere Pumping Station		67,300		4,221		31,200		(36, 100)	-53.6%		30,400		29,700		28,800		28,200
Conner Pumping Station		870,000		195,003		725,000		(145,000)	-16.7%		725,000		725,000		725,000		725,000
Fairview Pumping Station		535,000		349,557		555,000		20,000	3.7%		555,000		555,000		555,000		555,000
Fox Creek Pumping Station		2,000		84		1,000		(1,000)	-50.0%		1,000		1,000		1,000		1,000
Freud Pumping Station		357,500		199,673		390,500		33,000	9.2%		390,500		390,500		390,500		390,500
Northeast Pumping Station		748,000		565,693		796,000		48,000	6.4%		793,900		793,900		793,900		793,900
Oakwood Pumping Station		283,000		34,876		178,000		(105,000)	-37.1%		178,000		178,000		178,000		178,000
Grand Total	\$	2,984,200	\$	1,350,706	\$	2,767,400	\$	(216,800)	-7.3%	\$	2,761,600	\$	2,757,800	\$	2,753,800	\$	2,750,200

Capital Outlay

Capital Outlay is not a component of the Wastewater Operations Area Pumping (Lift) Stations budget.

Line Item Budget and Financial Plan

The five-year plan with a line item expense budget is reflected on the following page. The expenses are listed in custom grouping order by cost center.



		FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
	FY 2020	Adopted	Activity as of	Department	Department	Department	Department	Department
Cost Center & Expense Category	Actual	Budget	09.30.2020	Requested	Requested	Requested	Requested	Requested
892342 - Belle Isle Pumping Station	(138,900)	(6,000)	(8,208)	(8,800)	(10,000)	(11,200)	(12,400)	(13,600)
4.2 Supplies & Other	33,500	50,400	5,193	45,000	45,000	45,000	45,000	45,000
Repairs & Maintenance-Equipment	33,500	50,400	5,193	45,000	45,000	45,000	45,000	45,000
4.3 Contractual Services	500	-	702	3,700	3,700	3,700	3,700	3,700
Contractual Buildings & Grounds Maint	500	-	702	3,700	3,700	3,700	3,700	3,700
5.2 Shared Services	(172,900)	(56,400)	(14,104)	(57,500)	(58,700)	(59,900)	(61,100)	(62,300)
Shared Services Reimbursement	(172,900)	(56,400)	(14, 104)	(57,500)	(58,700)	(59,900)	(61,100)	(62,300)
892343 - Blue Hill Pumping Station	(67,000)	132,500	12,111	99,200	97,700	96,100	94,500	92,900
4.2 Supplies & Other	164,100	208,000	30,635	173,000	173,000	173,000	173,000	173,000
Repairs & Maintenance-Equipment	164,100	208,000	30,635	173,000	173,000	173,000	173,000	173,000
4.3 Contractual Services	300	-	348	3,200	3,200	3,200	3,200	3,200
Contractual Buildings & Grounds Maint	300	-	348	3,200	3,200	3,200	3,200	3,200
5.2 Shared Services	(231,400)	(75,500)	(18,872)	(77,000)	(78,500)	(80,100)	(81,700)	(83,300)
Shared Services Reimbursement	(231,400)	(75,500)	(18,872)	(77,000)	(78,500)	(80,100)	(81,700)	(83,300)
892345 - Conner Pumping Station	645,200	870,000	195,003	725,000	725,000	725,000	725,000	725,000
3.1 Electric	460,400	600,000	135,877	500,000	500,000	500,000	500,000	500,000
3.2 Gas	1,100	2,000	116	2,000	2,000	2,000	2,000	2,000
3.3 Sewage Service	8,700	10,000	1,632	9,000	9,000	9,000	9,000	9,000
3.4 Water Service	38,800	36,000	9,775	39,000	39,000	39,000	39,000	39,000
4.2 Supplies & Other	134,200	207,000	47,604	170,000	170,000	170,000	170,000	170,000
Repairs & Maintenance-Equipment	134,200	207,000	47,604	170,000	170,000	170,000	170,000	170,000
4.3 Contractual Services	2,000	15,000	-	5,000	5,000	5,000	5,000	5,000
Contractual Professional Services	2,000	15,000	- 240 557	5,000	5,000	5,000	5,000	5,000
892346 - Fairview Pumping Station	493,400	535,000	349,557	555,000	555,000	555,000	555,000	555,000
3.1 Electric	404,300	450,000	338,858	450,000	450,000	450,000	450,000	450,000
3.2 Gas	500	15,000	116	10,000	10,000	10,000	10,000	10,000
3.4 Water Service	19,100	15,000	3,652	20,000	20,000	20,000	20,000	20,000
4.2 Supplies & Other	69,500	55,000	6,930	75,000	75,000	75,000	75,000	75,000
Repairs & Maintenance-Equipment 892347 - Fischer Pumping Station	69,500 (30,900)	55,000 (5,400)	6,930 (2,304)	75,000 300	75,000 100	75,000	75,000 (500)	75,000
	6,200	(5,100)	(2,304)			(200)	, ,	(700)
4.2 Supplies & Other Repairs & Maintenance-Equipment	6,200	7,100 7,100	207	7,200 7,200	7,200 7,200	7,200 7,200	7,200 7,200	7,200 7,200
4.3 Contractual Services	400	7,100	540	5,600	5,600	5,600	5,600	5,600
Contractual Buildings & Grounds Maint	400	-	540 540	5,600	5,600	5,600	5,600	5,600
5.2 Shared Services	(37,500)	(12,200)	(3,051)	(12,500)	(12,700)	(13,000)	(13,300)	(13,500)
Shared Services Reimbursement	(37,500)	(12,200)	(3,051)	(12,500)	(12,700)	(13,000)	(13,300)	(13,500)
892348 - Fox Creek Pumping Station	700	2,000	84	1,000	1,000	1,000	1,000	1,000
3.1 Electric	700	1,500	84	1,000	1,000	1,000	1,000	1,000
3.3 Sewage Service	- 100	500	-	1,000	1,000	1,000	1,000	1,000
892349 - Freud Pumping Station	466,000	357,500	199,673	390,500	390,500	390,500	390,500	390,500
3.1 Electric	369,200	190,000	81,672	275,000	275,000	275,000	275,000	275,000
3.2 Gas	12,000	12,000	207	12,000	12,000	12,000	12,000	12,000
3.4 Water Service	8,500	5,000	3,553	8,500	8,500	8,500	8,500	8,500
4.2 Supplies & Other	75,100	143,000	114,241	90,000	90,000	90,000	90,000	90,000
Repairs & Maintenance-Equipment	75,100	143,000	114,241	90,000	90,000	90,000	90,000	90,000
4.3 Contractual Services	1,200	7,500	-	5,000	5,000	5,000	5,000	5,000
Contractual Professional Services	1,200	7,500	-	5,000	5,000	5,000	5,000	5,000
892350 - Northeast Pumping Station	983,700	748,000	565,693	796,000	793,900	793,900	793,900	793,900
3.1 Electric	815,900	748,000	250,104	796,000	793,900	793,900	793,900	793,900
4.2 Supplies & Other	167,800		315,589	•	•	•	•	•
Repairs & Maintenance-Equipment	167,800	_	315,589	_	_	_	-	-
892351 - Oakwood Pumping Station	107,500	283,000	34,876	178,000	178,000	178,000	178,000	178,000
3.1 Electric	97,500	120,000	34,876	115,000	115,000	115,000	115,000	115,000
4.2 Supplies & Other	10,000	123,000		61,000	61,000	61,000	61,000	61,000
Repairs & Maintenance-Equipment	10,000	123,000	-	61,000	61,000	61,000	61,000	61,000
4.3 Contractual Services	-	40,000	-	2,000	2,000	2,000	2,000	2,000
Contractual Professional Services		40,000		2,000	2,000	2,000	2,000	2,000
892352 - Woodmere Pumping Station	(74,000)	67,300	4,221	31,200	30,400	29,700	28,800	28,200
4.2 Supplies & Other	38,300	104,000	12,980	65,000	65,000	65,000	65,000	65,000
Repairs & Maintenance-Equipment	38,300	104,000	12,980	65,000	65,000	65,000	65,000	65,000
4.3 Contractual Services	300	-	415	3,700	3,700	3,700	3,700	3,700
Contractual Buildings & Grounds Maint	300	-	415	3,700	3,700	3,700	3,700	3,700
5.2 Shared Services	(112,600)	(36,700)	(9,174)		(38,300)	(39,000)	(39,900)	(40,500)
Shared Services Reimbursement	(112,600)	(36,700)	(9,174)	(37,500)	(38,300)	(39,000)	(39,900)	(40,500)
Grand Total	\$ 2,385,700							