Milwaukee County Department of Public Works Sanitary Sewer Capacity Management, Operation & Maintenance Program 2017 Departmental Budget Request Recommendations (Created on 5/23/16)

Description of Work for each department to perform	Percent To Do	Est Cost per Unit	Total all Depts.	Parks		Grounds		Airports		Zoo		H.O.C.		Transit	
Inspect Sanitary Sewer Manholes Total Number of Manholes Manholes by Stipulated Agreement Cost to Inspect MH	25%	\$75.00	1001	482 121	\$9,075.00	221 55	\$4,125.00	157 39	\$2,925.00	87 22	\$1,650.00	34 9	\$675.00	20 5	\$375.00
Cleaning and Televising Total Lineal Feet of Sanitary Sewers Estimated Sanitary Sewers to Televise	10%	\$2.34	199,133 19,913	115,200 11,520	\$26,956.80	35,500 3,550	\$8,307.00	26,700 2,670	\$6,247.80	12,000 1,200	\$2,808.00	7,200 720	\$1,684.80	2,533 253	\$592.02
Dye Water Testing Estimated Sanitary Sewers to Dye Test Mobilization Setups	2%	\$1.10 \$175.00		2,304 2	\$2,534.40 \$350.00	710 3	\$781.00 \$525.00	534 2	\$587.40 \$350.00	240 1	\$264.00 \$175.00		\$158.40 \$175.00	51 1	\$56.10 \$175.00
Smoke Testing Estimated Sanitary Sewers to Smoke Test Mobilization Setups	2%	\$0.55 \$175.00		2,304 3	\$1,267.20 \$525.00	710 1	\$390.50 \$175.00	534 1	\$293.70 \$175.00	240 1	\$132.00 \$175.00		\$79.20 \$175.00	51 1	\$28.05 \$175.00
Field Investigations (based on number of MHs inspected)					\$4,507		\$2,066		\$1,468		\$813		\$318		\$187
Training for MH Inspections (8 hours)					\$0		\$0		\$0		\$0		\$0		\$0
Document Organization & Submittal (based on number of MHs inspected)					\$0		\$0		\$0		\$0		\$0		\$0
CMOM Annual Meetings (2 @ 6 hours ea)					\$0		\$0		\$0		\$0		\$0		\$0
Estimated Internal Cost					\$45,215		\$16,370		\$12,047		\$6,017		\$3,265		\$1,588
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Sanitary Sewer Technical Services by DTPW with cost	* Total	Fixed	Variable		Parks		Grounds		Airports		Zoo		H.O.C.		Transit
distributed to the departments Percent of MHs on County owned property per Dept.	Cost 100%	Cost	Cost		48.15%		22.08%		15.68%		8.69%		3.40%		2.00%
referred of Mins off County owned property per Dept.	100%				40.13%		22.00%		13.06%		0.09%		3.40%		2.00%
Train Departments to Perform Inspections	\$200	100%			\$33		\$33		\$33		\$33		\$33		\$33
Record Drawing Search	\$1,880	10%	90%		\$846		\$405		\$297		\$178		\$89		\$65
G.I.S. Mapping Updates	\$2,920	10%	90%		\$1,314		\$629		\$461		\$277		\$138		\$101
Update & Maintain Inspection Database	\$4,660	10%	90%		\$2,097		\$1,004		\$735		\$442		\$220		\$161
Analyze Inspection Data	\$2,630	10%	90%		\$1,184		\$566		\$415		\$250		\$124		\$91
Label Inspection Photos	\$3,830	10%	90%		\$1,724		\$825		\$604		\$363		\$181		\$133
Add Inspection Reports to City Works	\$2,180	10%	90%		\$981		\$470		\$344		\$207		\$103		\$76
Upload, Convert to City Works, and View CCTV video	\$7,130	10%	90%		\$3,209		\$1,536		\$1,125		\$677		\$337		\$247
Prepare List of Recommended Projects	\$4,630	10%	90%		\$2,084		\$997		\$731		\$439		\$219		\$160
Prepare List of Recommended Inspections for Next Yea	\$3,430	10%	90%		\$1,544		\$739		\$541		\$325		\$162		\$119
Prepare Plans & Specs for Rehab.	\$8,220	10%	90%		\$3,699		\$1,770		\$1,297		\$780		\$388		\$285
Annual CMOM Meetings with Individual Departments	\$4,480	100%			\$747		\$747		\$747		\$747		\$747		\$747
Annual CMOM Committee Meetings	\$4,000	100%			\$667		\$667		\$667		\$667		\$667		\$667
CMOM Implementation	\$5,680	100%	90%		\$2,556		\$1,223		\$896		\$539		\$268	ĺ	\$197
Update MMSD I/I Master Plan	\$2,330	100%	30 /6		\$388		\$388		\$388		\$388		\$388		\$388
MMSD I/I Management Annual Progress Report	\$3,340	25%	75%		\$1,345		\$692		\$532		\$357		\$224		\$189
DNR Compliance Maintenance Annual Report	\$4,060	50%	50%		\$1,343		\$787		\$657		\$557 \$515		\$407	ĺ	\$379
	Estimated DTPW Cost											 	•		
Estimated DIPW Cost					\$25,733		\$13,477		\$10,472		\$7,184		\$4,696		\$4,038
Rounded Total Estimated Cost				\$70,900		\$29,800		\$22,500		\$13,200		\$8,000		\$5,600	

^{*} For total cost of each technical services task, see page 2.

Grand Total all Departments

\$150,000