

The Go-To-Firm for Innovative and Practical Solutions

WIA WIGHTMAN & ASSOCIATES, INC.
ENGINEERING • SURVEYING • ARCHITECTURE



Innovative and Practical Solutions for Lake Sewer Systems.

- Significant and innovative experience in developing practical lake sewer systems.
- Proven history of providing accurate rate studies and estimates.
- Able to work with clients to implement changes as needed during project.
- Total Engineering Fees include study costs, design engineering, easement surveying and acquisition, and complete construction engineering which includes full time inspection, construction staking, testing and construction administration.

Broad Range of Experience

Our designs start with what will be in the best interest of our clients. The solutions must be cost-effective and practical. Our engineering experience encompasses a broad range of projects including water distribution systems and treatment, wastewater collection systems and treatment, storm sewers, road and bridge reconstruction and renovation, subdivisions, and site design.

We provide full service planning, surveying, design engineering, construction staking, inspection, environmental, right-of-way acquisition, material testing, and project management services.

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COMPARISON OF LAKE SEWER PROJECT COSTS

Location and Year Completed	# of C.	Proposed Rate Structure in Study	Actual Rate Structure As Adopted	Original Project Cost Estimate	Final Project Cost	Engineering Const. Cost Est.	Actual Awarded Construction Cost	Total Engineering Fees	Notes
Lakes Area Sewer Authority Porter, Marcellus, & Volinia Townships, Cass & Van Buren Counties, MI 2007* 4 lakes	727	\$8,650 - benefit fee w/\$500 parcel fee assessment Monthly rate: \$45.00 \$1,000,000 Federal Grant	N/A	\$10,400,000	N/A	\$7,762,095	N/A	\$1,165,000	Design not completed. Bids 2009. Includes sewer system and treatment plant.
Porter Township Cass Co., MI 2006 6 lakes and one town (Union)	1,400	\$9,300 - benefit fee w/\$10/front foot assessment Monthly rate: \$28.00	\$8,800 - lake front benefit \$4,300 - off lake benefit w/\$10/front foot assessment Monthly rate: \$40.00	\$17,150,000	\$17,150,000	\$13,610,875	\$13,590,487.65	\$1,800,000	Sewer system and wastewater treatment plant.
Juno, Painter, & Christiana Lakes, Ontwa & Mason Townships, Cass Co., MI 2004 3 lakes	271	\$8,100 - benefit fee w/ \$585/parcel assessment Monthly rate: \$23.50	\$8,100 - benefit fee w/ \$585/parcel assessment Monthly rate: \$24.45	\$2,600,000	\$2,600,000	\$1,702,950	\$1,584,120.00	\$245,000	Sewer system and interceptor to Eagle Lake
Paradise Lake, Cass Co., MI 2002* 1 lake	115	\$2,070 - benefit fee w/\$5/front foot assessment Monthly rate: \$18.00	\$2,070 - benefit fee w/\$5/front foot assessment Monthly rate: \$18.00	\$1,400,000	\$1,400,000	\$1,102,980	\$971,094.98	\$135,000	Included sewer system and interceptor to Donnell Lake
Sister Lakes, Keeler & Silver Creek Townships in Cass & Van Buren, Cos., MI 2002 6 lakes	1,600	\$6,700 - benefit fee w/\$10/front foot assessment Monthly fee: \$20	\$6,600 - benefit fee w/\$10/front foot assessment Monthly fee: \$20.00	\$13,000,000	\$12,500,000	\$9,521,000	\$8,813,998.75	\$1,088,000	Included sewer system and interceptor to Dowagiac
Eagle & Garver Lakes, Ontwa Township, Cass Co., MI 2001 2 lakes and an industrial park	1,200	\$8,650 - benefit fee No assessment Monthly rate: \$25.00	\$6,925 - benefit fee w/\$585/parcel assessment Monthly rate: \$23.30	\$11,750,000	\$10,750,000	\$8,895,120	\$7,778,038.35	\$921,000	Included sewer system and interceptor to Elkhart
Stone Lake, LaGrange Co., IN 1998 1 lake	180	\$3,300 - benefit fee No assessment Monthly rate: \$50.00	\$3,200 - benefit fee No assessment Monthly rate: \$42.00	\$1,250,000	\$1,050,000	\$1,003,192	\$886,350.00	\$124,000	Included sewer system and treatment upgrade
Donnell Lake, Penn Township, Cass Co., MI 1997 1 lake	330	\$6,900 - benefit fee w/ \$10/front foot assessment Monthly fee: \$20.00	\$6,900 - benefit fee w/ \$10/front foot assessment Monthly rate: \$20.00	\$2,915,000	\$3,133,000	\$2,188,183	\$2,395,662.24	\$271,500	Sewer system and interceptor to Diamond Lake
Fish Lake, St. Joseph Co., IN 1997 1 lake	250	\$6,400 - benefit fee No assessment Monthly rate: \$50.00	\$5,500 - benefit fee No assessment Monthly rate: \$42.00	\$1,250,000	\$1,300,000	\$1,000,242	\$1,130,569.50	\$140,000	Sewer system & interceptor to White Pigeon with treatment upgrade
Barron Lake, Howard Township, Cass, Co., MI 1994 1 lake	440	\$4,550 - benefit fee w/ \$20/front foot assessment Monthly rate: \$19.90	\$4,500 - benefit fee w/ \$20/front foot assessment Monthly rate: \$19.90	\$1,800,000	\$1,725,000	\$1,380,810	\$1,350,680.00	\$172,000	Sewer system & interceptor to Niles
Diamond Lake, Penn Township, Cass Co., MI 1990 1 lake	900	\$5,000 - benefit fee w/\$10/ front foot assessment Monthly rate: \$17.00	\$4,600 - benefit fee w/\$10/ front foot assessment Monthly rate: \$17.00	\$6,000,000	\$5,750,000	\$4,317,835	\$4,054,210.25	\$416,000	Sewer system & interceptor to Cassopolis

**Project was eligible for and received Federal funding assistance.*