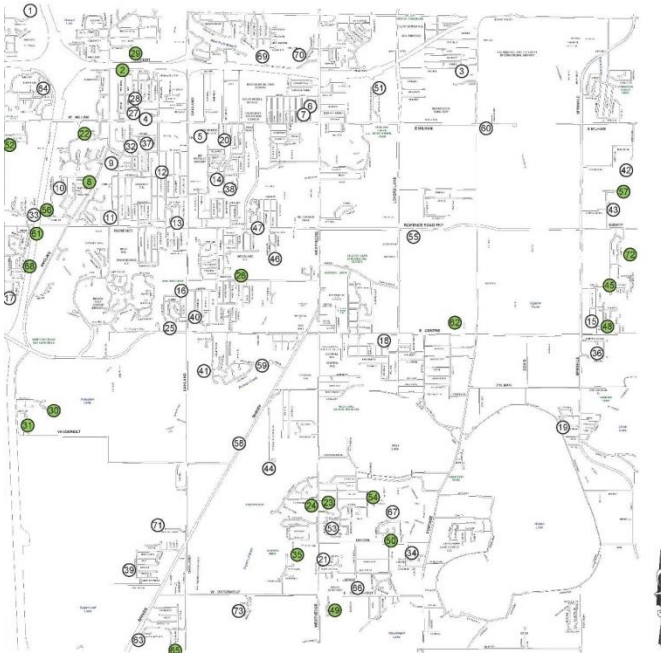


STORMWATER, ASSET MANAGEMENT, AND WASTEWATER (SAW) GRANT PROJECT, PORTAGE, MI



The City of Portage (City) contracted the professional services of the consulting team Hurley & Stewart, LLC (H&S) and Kieser & Associates, LLC (K&A) for preparation of a stormwater basin asset management plan. This project was funded primarily by the State of Michigan through a Stormwater, Asset Management, and Wastewater (SAW) Grant administered by the Michigan Department of Environmental Quality (MDEQ) along with partial funding from the City.

The City of Portage currently maintains an extensive stormwater system including 72 infiltration basins and retention ponds. These basins are either city-owned or are city-controlled with an easement to perform operational and maintenance activities. The general locations of these basins are mapped, but details (size, vegetation, functionality, GPS location, etc.) are not well documented.

The annual budget for operation and maintenance of the stormwater basins includes activities such as mowing, repair of eroded pipe outfalls, fence repairs/replacements, etc. However, a detailed Asset

Management Plan does not exist. This results in repair activities that tend to be reactive to observed conditions rather than proactive in preserving the condition of existing assets and features. This project will develop an Asset Management Plan and establish criteria for prioritizing short-term and long-term operation and maintenance activities for all 72 stormwater retention basins. K&A staff previously managed the City's retention basin groundwater monitoring program from 1993 to 1999 and from 2006 to 2010. Having previously provided these services to the City for a total of 10 years, K&A staff have a clear understanding of the requested asset inventory program.

Contact:

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Project Costs:
 \$48,000 (K&A)
 \$209,000 (Total)

Project Duration:
 Apr 2015 - Present

		Consequence (Cost) of Failure				
		Low	High	Low	High	Low
Probability of Failure	Improbable	1	2	3	4	5
	Remote	2	4	6	8	10
	Occasional	3	6	9	12	15
	Probable	4	8	12	16	20
	Imminent	5	10	15	20	25

Criticality Factor Result
 1-8 Not Critical
 9-16 Important, Not Critical
 17-20 Critical