

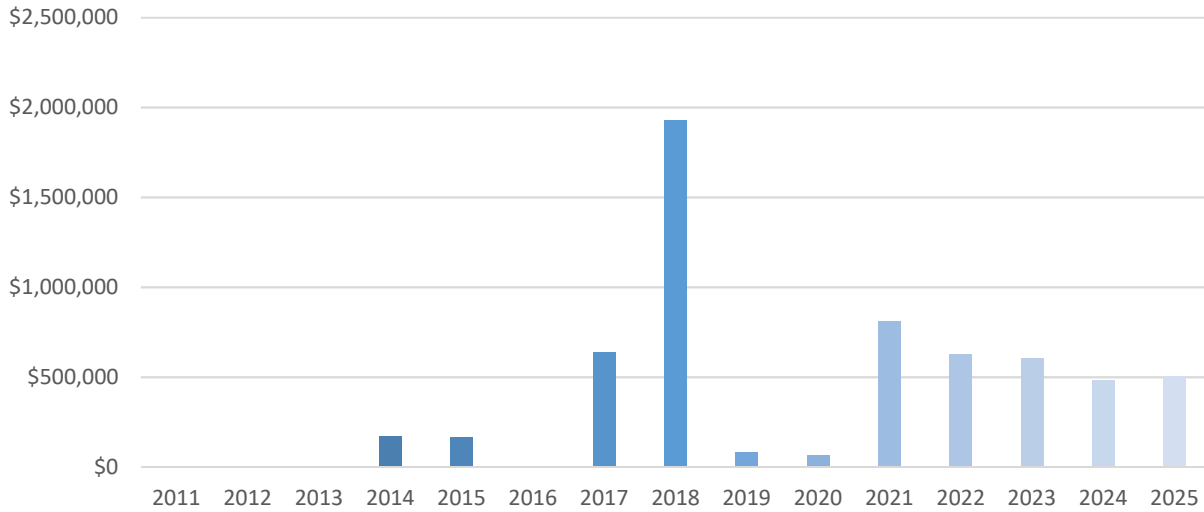
# Stormwater Management Improvements

The Village owns and maintains storm sewer and stormwater detention basins throughout the Village.

Projects in this category include annual dollars to complete maintenance work, cleaning and GIS mapping of existing infrastructure, parkway and roadway drainage improvements, and cost share programs which allow residents to leverage Village funds to address neighborhood drainage concerns. Annual maintenance work within this category is necessary to maintain the facilities the Village currently owns and operates. Investment in annual drainage improvements and cost share projects allows the Village to proactively address drainage issues, provide flooding relief, and mitigate safety concerns.



Stormwater Management  
(Historic and Projected Expenses)



**Financial Impact**

	2011	2012	2013	2014	2015	
Historical				\$174,609	\$167,452	
Historical	2016	2017	2018	2019	2020	Historical
	\$1,849	\$638,434	\$1,930,381	\$83,029	\$64,644	\$2,718,337
5-Year	2021	2022	2023	2024	2025	Short Term
	\$811,000	\$628,000	\$605,000	\$485,000	\$505,000	\$3,034,000





## Storm Basin Maintenance (5 Areas)



Project Category Stormwater

Useful Life N/A

Project Type Maintenance

User Department PW

Coordinator PW

Current Budget \$13,000

Initial Proposal Date N/A

Design Work Yearly

Project Work Yearly

Reoccurrence Annual

**Location** 5 Native Plant Areas and Flint Creek

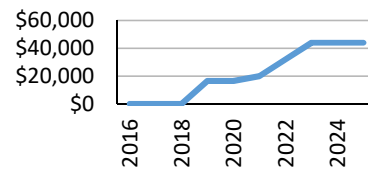
**Issue** Native plants require annual maintenance to ensure they function as intended and avoid the infringement of invasive species.

Fund Stormwater

Account(s) 20/50-670-XXXX

**Solution** Perform annual native plant maintenance for Public Safety Basin, Kilgobbin Basin, Miller Park Basin, Cornell Basin, IL Rte 14, and Flint Creek Waterway from Langendorf Park to Hart Road. The School District and the Park District have entered into agreements with the Village to pay for their portion (approximately \$5,000 in total) of maintenance of Flint Creek.

### Financial Trend



### Financial Impact

	2016	2017	2018	2019	2020	Historical
Historical				\$16,500	\$16,500	\$33,000
	2021	2022	2023	2024	2025	Short Term
Short Term	\$20,000	\$32,000	\$44,000	\$44,000	\$44,000	\$184,000
	Year 6-10	Year 11-15	Year 16-20	Long Term	Short Term	Total 20 Year
Long Term	\$220,000	\$220,000	\$220,000	\$660,000	\$184,000	\$844,000



## Televisive, Clean, Inspect, GIS Collection and Mapping of Storm Sewer

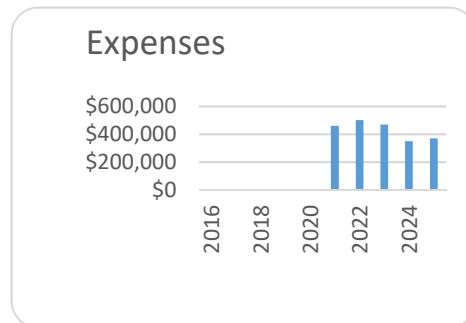


Project Category	Stormwater
Useful Life	N/A
Project Type	Study
User Department	PW
Coordinator	PW
Current Budget	N/A
Initial Proposal Date	2021
Design Work	N/A
Project Work	Yearly
Reoccurrence	Annual
Fund	Stormwater
Account(s)	20/50-670-XXXX

**Location** Storm Sewers

**Issue** The Village has incomplete storm system maps for manholes, inlets, catch basins, pipe networks, and outfall structures. Also, the storm sewers are only cleaned on a reactive basis which can result in storm sewer backups.

**Solution** Divide the Village into five sub areas and begin the process of collecting the necessary GIS information while performing maintenance on the stormwater system.



Financial Impact		2016	2017	2018	2019	2020	Historical
		Historical					
Short Term		2021	2022	2023	2024	2025	Short Term
		\$460,000	\$500,000	\$470,000	\$350,000	\$370,000	\$2,150,000
Long Term		Year 6-10	Year 11-15	Year 16-20	Long Term	Short Term	Total 20 Year
		\$1,370,000	\$1,250,000	\$1,250,000	\$3,870,000	\$2,150,000	\$6,020,000



## Storm Basin Assessment and Maintenance Plan (Cornell Basin)

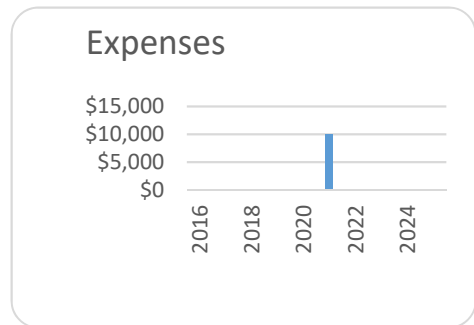


Project Category	Stormwater
Useful Life	N/A
Project Type	Study
User Department	PW
Coordinator	PW
Current Budget	N/A
Initial Proposal Date	2021
Design Work	N/A
Project Work	N/A
Reoccurrence	N/A
Fund	Stormwater
Account(s)	20/50-670-XXXX

**Location** Cornell Stormwater Basin

**Issue** The Cornell storm water basin has become overgrown with trees and other invasive plant species requiring a maintenance plan.

**Solution** Evaluate the Cornell storm water basin (located on the west side of Barrington Road across from Cornell Avenue) and establish a plan for annual maintenance to remove invasive plants and restore the basin to its original functionality.



<b>Financial Impact</b>	<b>Historical</b>	2016	2017	2018	2019	2020	Historical
							\$0
	<b>Short Term</b>	2021	2022	2023	2024	2025	Short Term
		\$10,000					\$10,000
<b>Long Term</b>	Year 6-10	Year 11-15	Year 16-20	Long Term	Short Term	Total 20 Year	
						\$0	



## Providence Road Parkway Drainage

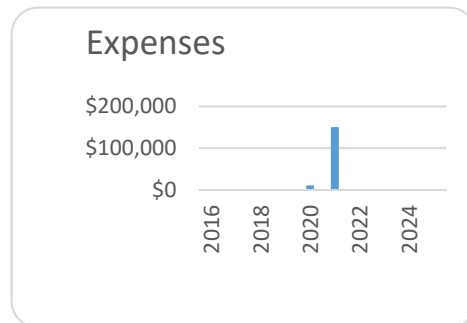


Project Category	Stormwater
Useful Life	N/A
Project Type	Improvement
User Department	DS
Coordinator	DS
Current Budget	\$10,000
Initial Proposal Date	2019
Design Work	2020
Project Work	2021
Reoccurrence	N/A
Fund	Stormwater
Account(s)	20/50-670-XXXX

**Location** Providence Road

**Issue** Flooding and Sidewalk icing issues exist within the south parkway of Providence Road between Hough Street and Lake Zurich Road.

**Solution** Survey the Providence Road parkway, design a solution incorporating grading, sidewalk improvements and storm sewer improvements to alleviate the existing ponding and icing issues and construct the improvements.



<b>Financial Impact</b>	<b>Historical</b>	2016	2017	2018	2019	2020	Historical
						\$10,000	\$10,000
	<b>Short Term</b>	2021	2022	2023	2024	2025	Short Term
		\$150,000					\$150,000
	<b>Long Term</b>	Year 6-10	Year 11-15	Year 16-20	Long Term	Short Term	Total 20 Year
					\$0	\$150,000	\$150,000



## Cold Spring Road Drainage Investigation



Project Category Stormwater

Useful Life N/A

Project Type Improvement

User Department DS

Coordinator DS

Current Budget \$15,000

Initial Proposal Date 2019

Design Work 2020

Project Work 2021

Reoccurrence N/A

**Location** Cold Spring Road

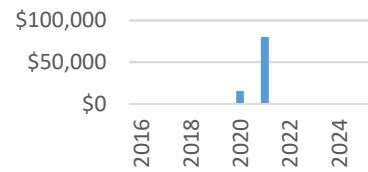
**Issue** Drainage and Icing issues are present in the southeast area of Cold Spring Road.

Fund Stormwater

Account(s) 20/50-670-XXXX

**Solution** Survey Cold Spring Road, design and construct a solution to alleviate the existing ponding and icing issues.

### Expenses

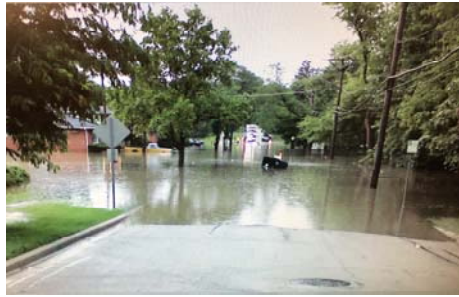


### Financial Impact

	2016	2017	2018	2019	2020	Historical
Historical					\$15,000	\$15,000
	2021	2022	2023	2024	2025	Short Term
Short Term	\$80,000					\$80,000
	Year 6-10	Year 11-15	Year 16-20	Long Term	Short Term	Total 20 Year
Long Term				\$0	\$80,000	\$80,000



## Annual Stormwater Program



Project Category Stormwater

Useful Life N/A

Project Type Improvement

User Department DS

Coordinator DS

Current Budget

Initial Proposal Date 2020

Design Work Yearly

Project Work Yearly

Reoccurrence Annual

**Location** Village Rights-of-Way

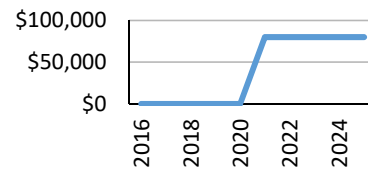
**Issue** Flooding issues exist within Village Rights-of-Way

**Solution** Annually survey Village rights-of-way which have historic flooding or icing issues and design and construct improvements to alleviate these drainage issues.

Fund Stormwater

Account(s) 20/50-670-XXXX

### Financial Trend



Financial Impact		2016	2017	2018	2019	2020	Historical
		Historical					
Short Term		2021	2022	2023	2024	2025	Short Term
		\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$400,000
		Year 6-10	Year 11-15	Year 16-20	Long Term	Short Term	Total 20 Year
Long Term		\$400,000	\$400,000	\$400,000	\$1,200,000	\$400,000	\$1,600,000



## Neighborhood Drainage Cost Share Program

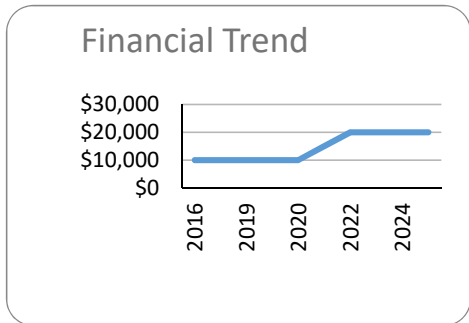


Project Category	Stormwater
Useful Life	N/A
Project Type	Beautification
User Department	DS
Coordinator	DS
Current Budget	N/A
Initial Proposal Date	1996
Design Work	Yearly
Project Work	Yearly
Reoccurrence	Annual
Fund	Stormwater
Account(s)	20/50-670-XXXX

**Location** Various Locations

**Issue** Flooding/Drainage problems exist on private property within the Village.

**Solution** Ordinance 96-1861 established a policy for the resolution of certain neighborhood drainage problems meeting specific criteria and provides for Village financial participation of 50%, not to exceed \$10,000



<b>Financial Impact</b>	<b>Historical</b>	<b>2016</b>	<b>2017</b>	<b>2019</b>	<b>2019</b>	<b>2020</b>	<b>Historical</b>
		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
	<b>Short Term</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>Short Term</b>
		\$15,000	\$20,000	\$20,000	\$20,000	\$20,000	\$95,000
	<b>Long Term</b>	<b>Year 6-10</b>	<b>Year 11-15</b>	<b>Year 16-20</b>	<b>Long Term</b>	<b>Short Term</b>	<b>Total 20 Year</b>
		\$100,000	\$100,000	\$100,000	\$300,000	\$95,000	\$395,000