

Stormwater System



State of Michigan SAW Grant

Stormwater, **A**sset management and **W**astewater



The intent is to

- Accelerate asset management planning
- Improve water quality
- Enhance understanding of the condition of wastewater and stormwater infrastructure
- Plan effectively for long-term capital improvements, operation, and maintenance of wastewater and storm sewer systems.











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Asset Management

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Asset Management Home

Asset Inventory

Asset Management Plans/Programs

What is Asset Management?

PASER Street Ratings

SAW Grant Information

Resource Documents

Asset Management

Mission Statement:

Our mission is to create/provide/maintain asset inventories including condition assessments for all City assets, for use in a strategic approach to long term financial and economic management, implement sound policies and strategic plans, monitor/report/measure performance, provide access to information used to assist in operational activities, and create Asset Management Plans/Programs.

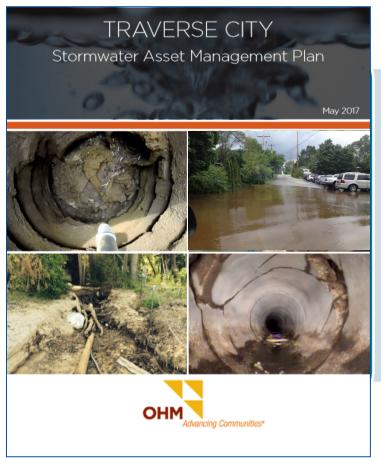
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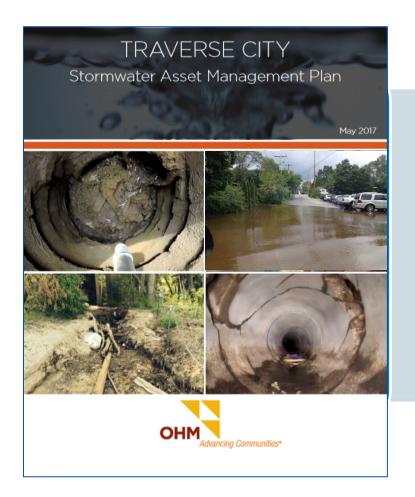
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- Asset Inventory and Condition Assessment
- Level of Service / Capacity
- Criticality of Assets
- Operation and Maintenance (O&M) Strategic/Revenue Structure
- Long-term Funding/Capital Improvement Planning



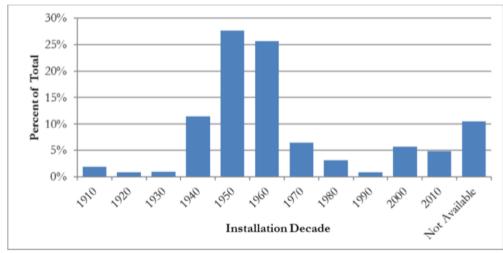


Discovery

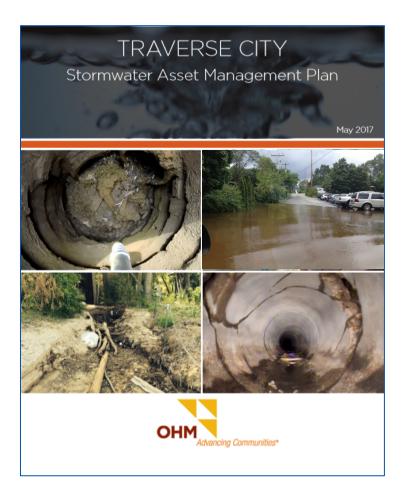
- Aging assets
- Deteriorating condition
- Under capacity
- Underfunded
- No dedicated funding source
- No long term strategy



Age Assessment



- Average age 55 years
- 70% over 50 years



Condition Assessment



NASSCO's

 $P_{ipeline}$

A ssessment

and ertification

ogram rogram

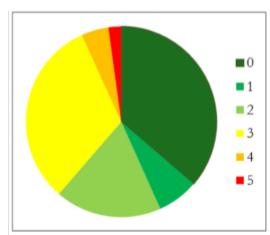
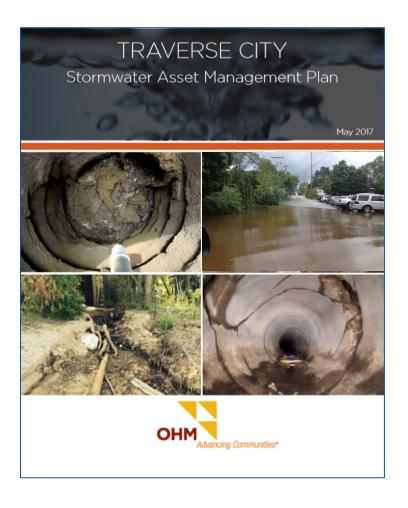
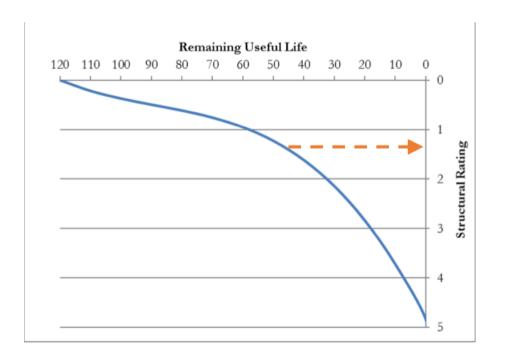
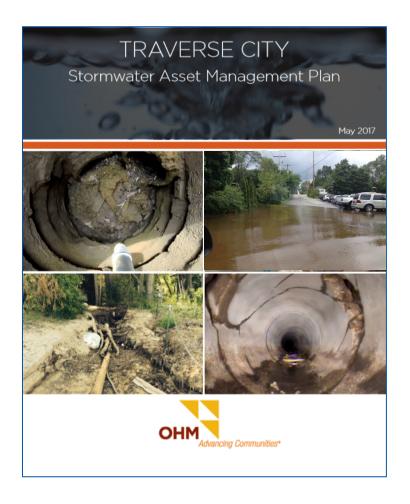


Figure 17: Storm Sewer Structural Ratings



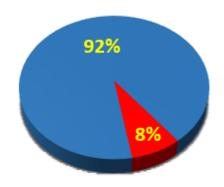






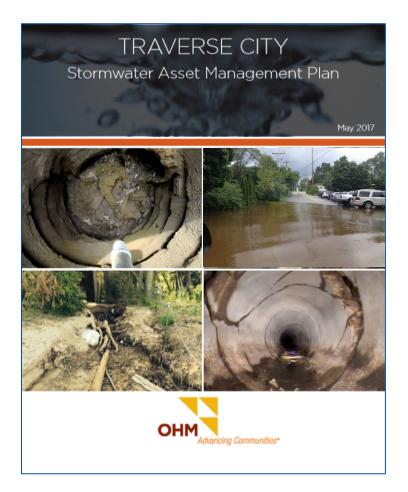
Capacity Assessment

8% of pipes are under Capacity



AM Strategy:
Coordinate replacement of
undersized pipes with street repairs





Risk Assessment

Table 6: Probability of Failure

Score	Description
1	Improbable
2	Remote, unlikely but possible
3	Possible
4	Probable, likely
5	Imminent, likely in near future

Table 7: Consequence of Failure

Score	Description
1	Negligible, minor loss of function
2	Minimal or marginal
3	Noticeable, may suspend some operations
4	Critical, temporarily suspends operations
5	Catastrophic disruption

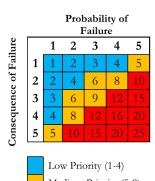
Probability of Failure



Consequence of Failure



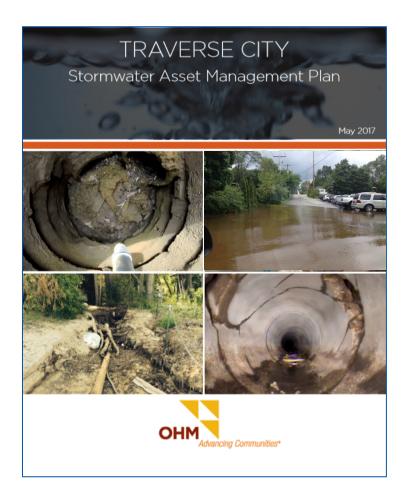
Business Risk Exposure



Medium Priority (5-9)
High Priority (10-25)

Figure 28: BRE Prioritization Matrix



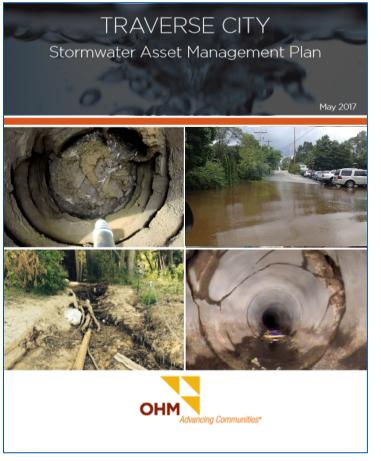


Level of Service Goals

Meeting the City's long-term needs requires that:

- 1. The system remains clean, structurally sound, and clear of obstructions
- 2. The system is large enough to prevent excessive flooding
- 3. The system controls the amount of pollutants reaching Grand Traverse Bay





Long Term Funding Strategy

