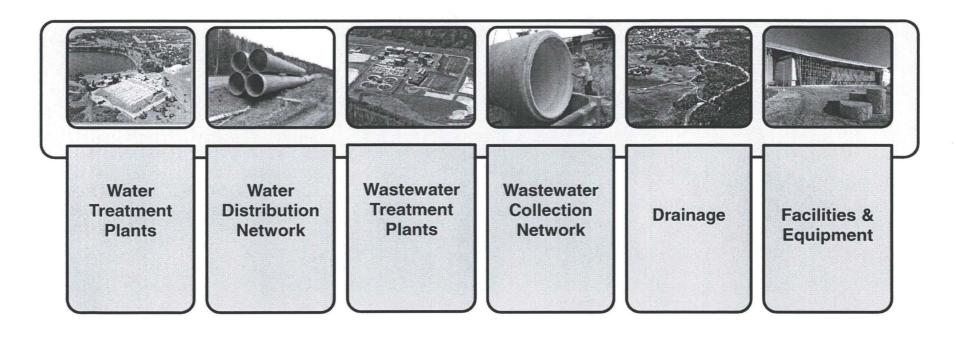


Water Infrastructure Investment Plan (WIIP)

C2014-0095

2014 March 17

Infrastructure Programs

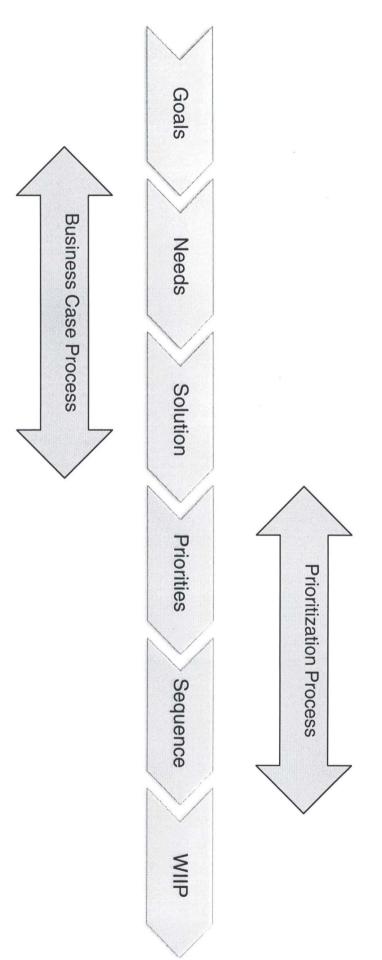


Four Investment Drivers

8	Maintain Assets	Maintaining, protecting and extending the life of infrastructure investments.
	Regulatory and Environmental Protection	Continuing to meet increasingly stringent regulatory and environmental protection requirements.
	Service	Continuing to provide reliable and high quality services to meet the needs of citizens.
i triti	Growth	Providing infrastructure to meet the needs of a growing Calgary.

More Outcome Focused

Building the WIIP

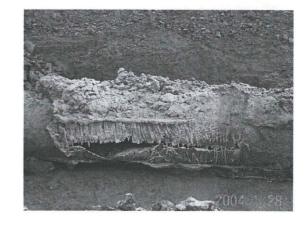


4

Maintaining Assets

Outcomes

- Reduce interruptions
- Services at optimal cost
- Reduce lifecycle costs

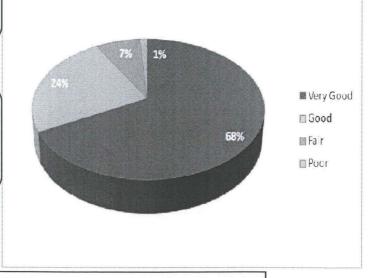


Pressures

- Aging assets
- Growing inventory

Investments

- Condition assessment programs
- Main replacements
- Capital maintenance
- Corrosion protection programs



Investments of \$70-\$90 M/year

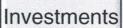
Regulatory & Environmental Protection

Outcomes

- Protect public health and environment
- High quality drinking water
- Responsible management of wastewater

Pressures

- Increasingly stringent regulations
- Growing population



- Bonnybrook wastewater treatment plant upgrades and expansion
- Drinking water disinfection
- Stormwater management



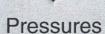


Investments of \$50-\$70 M/year

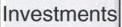
Services

Outcomes

- Increase levels of service (older communities)
- Increased resiliency



- Sewer backups
- Changing standards and expectations



- Community Drainage Improvement
- Sanitary upgrade program
- Flood mitigation programs





Growth

Outcomes

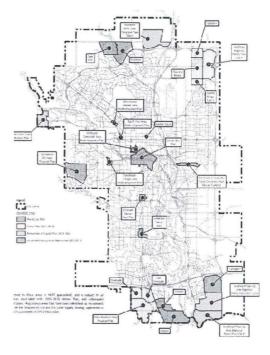
- Capacity to meet demands
- Serviced land supply

Pressures

- High rate of growth
- Increased redevelopment

Investments

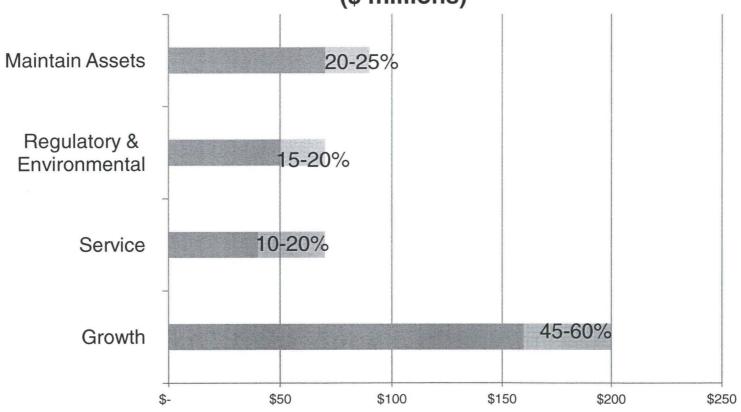
- Wastewater treatment plant expansions
- Water treatment plant expansion
- Linear infrastructure





Investments of \$160-\$200 M/year

Utilities Investment Allocation by Driver (\$ millions)



WIIP Framework

Programs	
I I O GI GI I I O	

	Water Treatment Plants	Water Distribution Network	Wastewater Treatment Plants	Wastewater Collection Network	Drainage	Facilities & Equipment	% of Total
Maintain Assets	<5%	5-10%	<5%	<5%	<5%	<5%	20-25%
Regulatory & Environmental Protection	<5%	<5%	5-15%	5-15%	<5%	<5%	15-20%
Services	<5%	<5%	<5%	5-15%	<5%	<5%	10-20%
Growth	<5%	5-15%	20-30%	5-15%	<5%	<5%	45-60%
% of Total	5-10%	15-25%	35-45%	15-25%	10-15%	3-5%	<5% Between 5-
7							Greater tth

Recommendation

That Council:

 Direct administration to incorporate the Water Infrastructure Investment Plan into the 2015-2018 Action Plan.