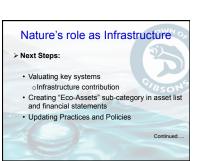






## Nature's role as Infrastructure Traditional Asset Lists: Roads, buildings, water, sewer and drainage Missing from this list are: Trees, soil, land, water, air, minerals and marine environment





## Nature's role as Infrastructure Next Steps cont.: • Educating • Eco Dialogue Series / Art Farm / SD#46 / Walk on Water tour • Partnering • Gov'ts, Universities (U of Ottawa, SFU, Munk School of Global Affairs)

## Service Delivery Model Most natural, energy-efficient, reliable, costing the least to operate, over the long term... Putting away or investing % of the value of assets Fair pricing of services (water, sewer, waste) Deferring works (conservation, density) Focusing on Core Priorities (E/I/D – C/I/C)

Focus on Preventative Maintenance

# The Case for Preventative Maintenance From Silos to teams: Plan / Project Manage / Maintain Three types of work (\$) Preventative (\$\$) Breakdowns (\$\$\$) Solids hit the Fan Training, technology, tools, plans and regular funding From Paper to Pad (iPad)

### In Summary

- ➤ Nature plays a major role in Gibsons infrastructure
- · Recognizing it
- · Understanding its value
- Implementing stewardship and monitoring plans
- >The importance of preventative maintenance
- · Investing pennies to save dollars
- Updating practices/training Asset Management 2.0



### Overview

- · Background on Gibsons Water
- · Asset Management (AM)101
- · Applying AM Principles to the Gibsons Aquifer
- Setting Water Rates

### Town of Gibsons Water Sources

- ~25% supplied by the Regional District
- ~75% supplied from the Gibsons Aquifer

 Gibsons Aquifer: sand & gravel aquifer lying predominantly under the Town



## A Decade of Water History in Gibsons

- 2004
- Development of Water Supply Strategic Plan
- 2005
- OCP Council Policy: "Identify the extents of the Gibsons Aquifer"
- 2007
  - Application to Towns for Tomorrow for Aquifer Mapping
- 2008-2009
- Updated grant applications submitted

## A Decade of Water History in Gibsons

- 200
  - \$400,000 Towns for Tomorrow Aquifer Mapping Grant received (\$100,000 contribution from the Town)
- 2009 201
- Aquifer Mapping Study
- Universal Water Metering 1st step in equity
- Distribution configuration changes

## A Decade of Water History in Gibsons

- 201
- Water Rate Review = 15% rate increase
- Year One Aquifer Monitoring
- 2014
- Refined Water Rate Review = 10% overall increase & rate equity

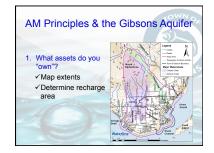
  Aguifor Protection Development Permit Asset
- Aquifer Protection Development Permit Area
- Water Monitoring Policy
- Intensive Asset Management analysis
- Year Two Aquifer Monitoring

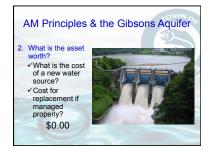
### Asset Management (AM) 101 The Principles of Asset Management

"The application of sound technical, social and economic principles that considers present and future needs of users, and the desired level of service from the asset".

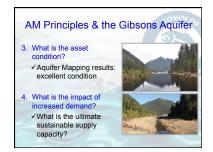
### Asset Management (AM) 101 The Principles of Asset Management

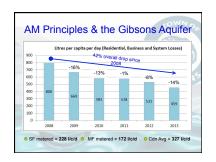
- 1. What assets do you own?
- What is the asset worth?
- 3. What is the asset condition?
- 4. What is the impact of increased demand?
- 5. What is your operation and maintenance plan?
- 6. Establishment of a financial plan
- 7. Ongoing assessment



















# In Closing 1. Asset Management is part of Council's core business; 2. Natural Assets are being included in Gibsons Asset Management Plan; 3. Ongoing public awareness and understanding are essential to our success; 4. Water rates are being set to reflect true costs. "The best time to plant a tree was 20 years ago; the second best time is now."

