LSWIMS

Local Source Water Information Management System















The Collaboration Presents

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The Background

- Clean Water Act, 2006 establishes the Source Protection Program
- Watershed-based Source Protection
 Plans require implementing bodies, e.g., municipalities, to take action to protect municipal sources of drinking water

Part IV Responsibilities

Part IV refers to policy tools available to Risk

Management Officials and Risk Management Inspectors to enforce

Source Protection Plan policies.

Tools include:

- Prohibition
- Risk Management Plans
- Restricted Land Uses

The Challenge

 Municipalities require a tool to help meet information management needs related to Part IV of the Clean Water Act, including annual progress reporting

The Solution



Collaborative venture of local partners to develop a web-based information management system

Built to:

- meet Part IV operational information and reporting needs
- support annual progress reporting requirements

The Collaborators

MUNICIPALITIES:

- The City of Guelph
- · Municipalities in Wellington County
- Oxford County

CONSERVATION AUTHORITIES:

- Upper Thames River Conservation Authority
- · Grand River Conservation Authority
- Discussions ongoing with additional municipalities

The Collaboration Process

- Sharing experiences and capabilities
- Collaborators share responsibilities and are expected to provide input and guidance
- Examples of collaborative responsibilities:
 - ✓ development of collaboration agreement

 led by City of Guelph; participation by all
 - ✓ development of document templates

 by all
 - ✓ project management led by Upper Thames River Conservation Authority
 - ✓ Privacy Impact Assessment led by Wellington municipalities; participation by all

Achievements

Phase	Description	STATUS
1	needs assessment	complete
2	preliminary database schema and interface	complete
3	preliminary system release - basic functionality	complete
4	mapping and spatial integration	substantially complete
5	communications and chronology	in development
6	administration and reporting	planned early 2017
7	tasks and workflow	ongoing





- Total in-kind from all ~\$300k
- Original funding ~\$35k per collaborator
- Estimated annual maintenance ~\$5k per collaborator
- New collaborators ~\$10k once + prorated maintenance

LSWIMS APP

DEVELOPMENT ENVIRONMENT



- Developed in .net/javacript/JQuery
- Running on MS SQL on a secure Microsoft Azure site
- Third party authorization tool used
- Transport level security using a TSL Certificate
- Open layers mapping using MS SQL database
- Can be used anywhere internet is available on a variety of mobile devices

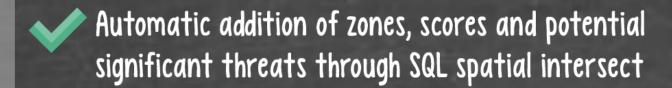
Summary of Features

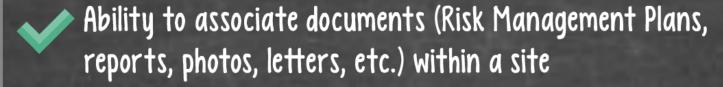


- Mapping to view: base mapping, aerial photos, well locations, wellhead protection areas and other data
- Ability to add multiple polygons to a site to represent specific activity locations
- Connection to municipal info on parcels and contacts



Summary of Features







LSWIMS APP

POTENTIAL FUTURE WORK PRIORITIES

- Integrated email, automatic parsing and notification of responses
- Automated population of templates, e.g. Risk Management Plans
- ---- Generation of annual reports
- Administration features and documentation
- Integration with other management systems

LSWIMS

Local Source Water Information
Management System











A Collaborative Venture











