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Aggregate Designated Area
MNR Sign Site
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Warehouse - Packaged Products
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Ontario Borehole

MOST REQUESTED DATA SETS

Water Polygon Segment
Water Line Segment
Wetland Unit
NRVIS Road Segment
MNR Road Segment
Lot Fabric
Trail Segment
Recreation or Access Point
Cottage Residential Site
Building as Symbol

Coordinator's Update

By Raphael Sussman

Welcome to the October issue of Land Information Ontario's quarterly newsletter.

Since our last newsletter, LIO has participated in a number of events, notably the annual conferences of the Association of Municipalities of Ontario (AMO), Showcase Ontario, and the Great Lakes Regional Data Exchange Conference.

In this issue, we are pleased to include a feature article by the Municipality of Quinte West, a member of OGDE. As usual, we have included our regular updates on the Ontario Parcel, Ontario Road Network and Digital Imagery programs

On the technical front, LIO has created a Web Map Service to access imagery holdings from partnership projects in which we have participated. In the interim, this is now only available to the Ontario Public Service. Government ministries are incorporating this data into applications that can be accessed through the Internet.

LIO has been working closely with GeoConnections Canada on understanding the impact of using Web Feature Services. A demonstration of this pilot project later this fall will show how Web Feature Services dynamically bring together, (in real time), Geographic Names, Road Networks, and Administrative Boundaries from provinces and territories across Canada.

Also worth noting is the new LIO "Make a Topographic Map" user guide that is now available on our website. We appreciate the comments and suggestions that you have provided on this tool. We encourage you to continue using it, and providing additional comments as it evolves over time.

Thank you for your feedback on previous issues of LIO's newsletters. Contributions for consideration in an upcoming issue should be sent to Favelle Maschke at favelle.maschke@ontario.ca.

Raphael Sussman

Did you know...

**Hydrography studies the elements in a water cycle while
Hydrology examines the actual movement of water.**

Welcome New OGDE Members

City of Pembroke
City of Temiskaming Shores
City of Welland
County of Renfrew
Corporation of the Township of
Bonnechere Valley
Dufferin-Peel Catholic District
School Board
Hiawatha First Nation
Oak Ridges Moraine Foundation
Oak Ridges Moraine Land Trust
Ontario Land Trust Alliance
Simon Fraser University
Toronto District School Board
Town of Penetanguishene
Voyageur Trails Association
Wikwemikong Unceded Indian
Reserve No. 26

Click here for a complete
membership listing

Technology Report

By Greg Bay

The focus on the technology front this quarter has been the release of the internal web mapping service for Ontario Public Service (OPS) Imagery products. This web service will provide access to images, reducing the need to duplicate large imagery files. Currently, this service is only available to OPS clients.

Over the next few months, we will be conducting ongoing data activities to broaden the variety of data available. Early next year, southern Ontario imagery uploads will be completed. The central and northern Ontario regions are scheduled for next year and beyond as data comes in from the MNR Forest Resource Inventory project.

To support municipality matching, we are working to improve the GeoCoder. This is currently in the testing phase, as are improvements to the data subscription system (LIDS). In addition, work is in progress to support the Web Feature Service (WFS). Finally a number of fixes are in progress to address issues with the LIO Make a Map tool, improving both its functionality and data.

For more information, please contact me at greg.bay@ontario.ca

Ontario Parcel Report

By Carla Jordan-Cooke

The Ontario Parcel is a standardized, Ontario-wide, geospatial database of assessment, ownership and parcels of land. The Ontario Parcel database was developed through a partnership between Teranet Enterprises Inc., the Municipal Property Assessment Corporation, and the Ontario Ministry of Natural Resources.

Since March, a number of organizations have signed an Ontario Parcel User License Agreement with the Ministry of Natural Resources.

These organizations include:

- Conservation Ontario
- Ganaraska Region Conservation Authority
- Mattagami Region Conservation Authority
- Niagara Peninsula Conservation Authority
- Ontario Ministry of Environment
- Ontario Ministry of Municipal Affairs and Housing



In addition, the Corporation of the County of Lennox and Addington recently signed an Ontario Parcel Municipal License Agreement with access to the assessment parcel through the LIO warehouse.

For more information on the Ontario Parcel, please contact me at carla.jordan-cooke@ontario.ca

Ontario Road Network

By Carol-Anne Albertson

The Ontario Road Network (ORN) is constantly updating and improving its data. Recent updates include new and improved geometry, amendments to street names, and new and revised street address ranges.

The ORN is available through the Ontario LIO Warehouse as either a Linear Reference System (LRS) or a segmented data set. The segmented version of the ORN is derived from the original LRS data set and is suitable for routing and context mapping. The segmented data set currently provides attributes such as street name, alternate street name, address range, road class, and direction of traffic flow.

Currently, we are evaluating the LRS model and will be requesting feedback from our ministry partners for their business requirements.

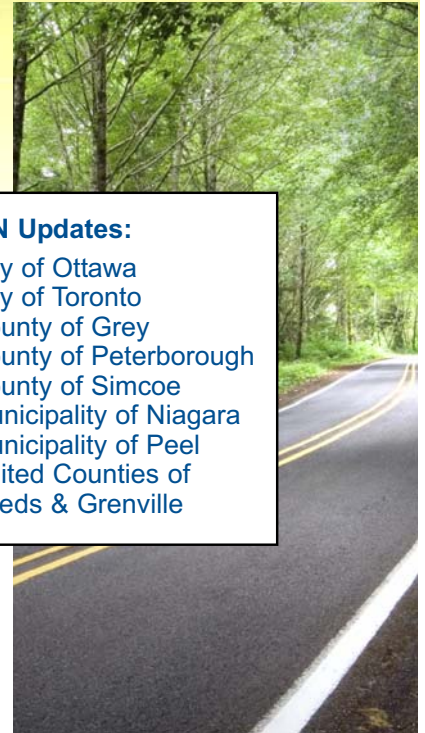
A revised LRS version will be available in the new year, resulting in an easier to navigate model. The LRS data will continue to provide the same attribute information (e.g. speed limit and number of lanes).

The ORN geometry was updated to the National Road Network (NRN) GeoBase Portal. Next year, the ORN will be providing updates to the street names and addresses.

For more information regarding the Ontario Road Network, contact carolanne.albertson@ontario.ca

ORN Updates:

- City of Ottawa
- City of Toronto
- County of Grey
- County of Peterborough
- County of Simcoe
- Municipality of Niagara
- Municipality of Peel
- United Counties of Leeds & Grenville



Upcoming Seminars

Land Information Ontario
will be hosting:

PC Tablet Mapping

*Enhancing Forest Fire
Management Decision Making*
November 8th, 2007

To register contact: rene.blier@ontario.ca

LIDS/SNIF/OLID

Information Session
January 9th, 2008

To register contact: lio@ontario.ca

Location:

Ministry of Natural Resources
300 Water St., Robinson Place
Peterborough, ON

Feature Data Set

Water is one of the most popular data set themes available in the LIO Warehouse. As part of an MNR multi-year strategy, a project is underway to improve Ontario's hydrographic and hydrologic data.

This project involves the integration of water connectivity and flow from the Water Resources Information Program's (WRIP) waterflow network into Ontario's official hydrographic data within the Natural Resources Values and Information System (NRVIS).

In the future, the resulting waterflow data will be available from the LIO Warehouse and would be provided to Natural Resources Canada for the National Hydro Network.

For more information on the Hydrographic Data Strategy, please contact: anne.trudell@ontario.ca or carla.jordan-cooke@ontario.ca

Digital Imagery

By Mike Robertson

As high resolution imagery pours in across the province, storage and retrieval of this data presents a significant challenge. LIO has seen the demand for on-line access to imagery increase dramatically over the past few years. Historically, imagery project data users and partners have been required to store files for their own use. In the attempt to reduce storage duplication, a new web service application related to imagery has been introduced. Although this service is available only to the OPS, it paves the way to reducing the costs for storage and application development.

LIO is now in the process of loading imagery data into a central server that will allow data users access to imagery without having the need to store their own copies. Currently, LIO is providing this service to the Ontario Public Service.

QuickBird Acquisition

New QuickBird satellite imagery acquired during the summer is being delivered to MNR and is being processed for distribution to our partners.

Any public sector organization who would like access to QuickBird data should contact Mike Robertson.

Source Water Protection Acquisition

Source Water Protection is using all imagery that is being collected across the province, including Orthophotography and QuickBird imagery.

The Source Water Protection project is a collaborative effort between MNR, MOE, Conservation Ontario and municipalities to implement the Clean Water Act legislation, resulting from the Walkerton Report. Following this report, current and accurate imagery data was identified as critical to support source water protection planning. Imagery collected for this project is used to map sensitive areas, water wells and watersheds for the purpose of safe drinking water.

For more information about Source Water Protection, visit: http://www.conservation-ontario.on.ca/source_protection/index.html or <http://www.ene.gov.on.ca/envision/water/spp.htm>.

Digital Orthophotography Projects: Simcoe/Muskoka/Dufferin

The regions of Simcoe County, Muskoka, and a portion of Dufferin County encountered a setback when leaf on conditions in the spring halted progress. This project will continue in the spring of 2008, with the intent to capture areas with leaf off conditions. There will be a combination of 10 cm (urban) and 30 cm (complete) products for those areas.



Forest Resource Inventory

The Ministry of Natural Resources has acquired imagery for the season and will be receiving data in the next few months.

Eastern Ontario Orthophotography Project

Determining geographic boundaries will be one of the major goals over the next few months for the Eastern Ontario Steering Committee. In addition, development of an acquisition strategy, timelines and communication plan is underway. Next month, a November consultation session will invite feedback from potential partners.

Next steps in this project include seeking proposals for the acquisition of high resolution digital Orthophotography. Participation from all sectors (federal, provincial, municipal and private organizations) is being encouraged in order to reduce project costs.

If you are interested in this project, please contact Mike Robertson (mike.robertson@ontario.ca) for more details.

Other Imagery Projects and Opportunities

An Imagery Strategy is being developed for the acquisition and distribution of high resolution imagery across the province. This strategy will identify products, funding, timing, collaboration opportunities and technology.

DPRA has been hired to develop the strategy and will be contacting suppliers and users in the near future. The strategy will be completed prior to the end of March.

Disaster Response at the City of Quinte West

By Steve Whitehead

The City of Quinte West has recently developed an innovative Web-based application called Protective Response Interactive Services Management (QW-PRISM). It allows a command centre to coordinate response efforts by relaying maps and information to emergency staff on the ground where the emergency is occurring. The application can also be run wireless from laptops in the field.

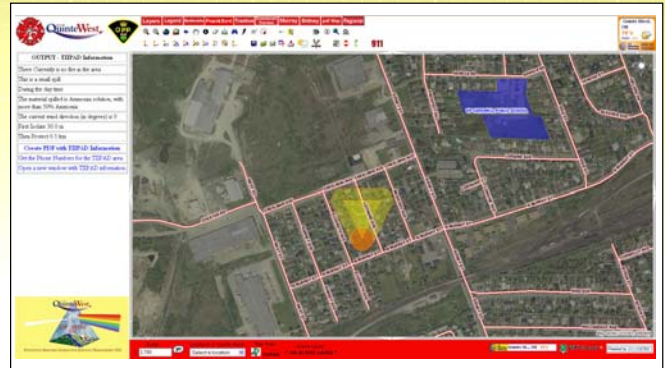
The application, based on ArcIMS, ArcSDE, and Latitude's GeoCortex Internet Mapping Framework, features base layers and Ontario Road Network data supplied by Land Information Ontario. This data incorporates half metre resolution ortho-imagery and Digital Elevation Models. Also included, is the City's parcel layer that details land ownership and address information.

The beauty of the QW-PRISM application is its ability to integrate data to serve a specific purpose. LIO data sets are combined with City data sets such as public works services, emergency staging areas, emergency evacuation routes, medical buildings, as well as other sites. As an added feature, local floor plans of schools, hospitals, and industrial buildings have been scanned and are hyperlinked to QW-PRISM.

The QW-PRISM application features components that

The QW-PRISM application allows users to:

- Add accident sites, evacuation routes, road closures, staging areas, helicopter landing sites, and triage areas in real time
- Save maps as each event occurs for analysis after the emergency
- Calculate approximate time between sites, area calculations, as well as address queries
- Identify-by-radius features such as hospitals or schools that are within a selected radius of an event
- Create instant PDF maps that can be saved and e-mailed from within the application.



Above: Screen shot example of QW-PRISM

are tailored for specific needs. Using the Emergency Response Guide Ontario (ERGO) for chemical spills as a foundation, the City of Quinte West GIS and IT staff developed a Table of Initial Isolation and Protective Action Distances (TIIPAD) tool that can map an evacuation area. This tool collects important information (e.g. material spilled, time of day, wind direction and size of spill) and plots the evacuation area to the QW-PRISM system. Users can also view live weather maps and overlay precipitation radar and predicted wind speeds.

The City of Quinte West will soon be developing another component of QW-PRISM that will retrieve telephone numbers for an identified area, called PRISM-911. This feature will provide the ability to deliver an emergency message to the public.

Further enhancements to the QW-PRISM application are now being investigated to allow for improved sharing of real time data and information to various agencies. This collaborative approach will assist in the decision making of emergency responders.

The City of Quinte West is an amalgamation of the former municipalities of Trenton, Sidney, Murray and Frankford. Among its many achievements in Geographic Information Systems, the City of Quinte West won the 2007 ESRI International Special Achievement in GIS Award for QuinteWestMaps.com, the City's web-based economic development and tourism advertising program.

Steve Whitehead works as a Geomatics Coordinator for the City of Quinte West. For more information on QW-PRISM, email stevevw@city.quintewest.on.ca