

ABOUT US

Our Vision

The LTVCA...for a balanced & healthy watershed

Our Mission

Leading by example in environmental protection in partnership with the community

Our Core Values

Respect, integrity, commitment, objectivity, & collaboration



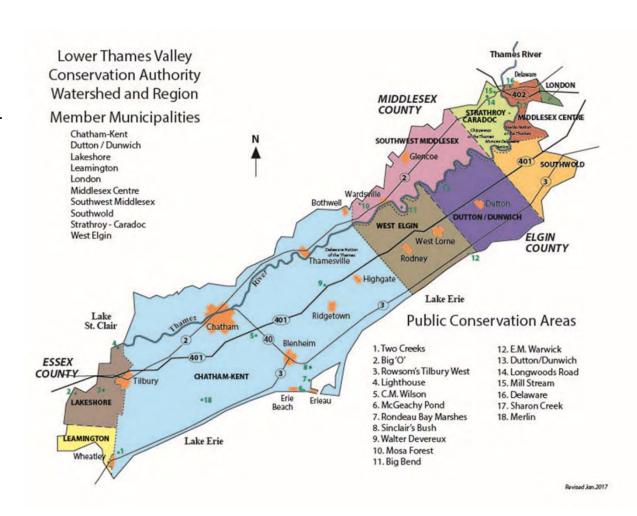






OUR AREA OF JURISDICTION

area covers
 approximately 3,274
 square kilometers (1,264
 square miles) & is home
 to over 100,000 people.



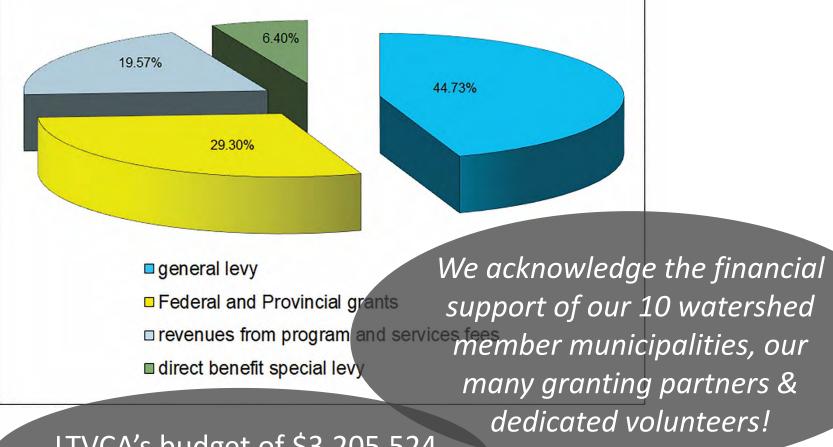
OUR DIRECTORS & MUNICIPALITIES

- Linda McKinlay (Chair) Town of Lakeshore
- Trevor Thompson (Vice-Chair) Municipality of Chatham-Kent
- Kimble Ainslie City of London
- Christa Cowell Municipality of Southwest Middlesex
- Sarah Emons Township of Southwold
- Amy Finn Municipality of Chatham-Kent
- Jeannie Frawley Municipality of Middlesex Centre
- Mike Hentz Municipality of Dutton Dunwich
- Sandi Hipple Municipality of Strathroy-Caradoc
- Richard Leatham Municipality of West Elgin
- Paul Tiessen Municipality of Leamington
- John Wright Municipality of Chatham-Kent



Linda McKinlay- Chair

\$ BUDGET \$



LTVCA's budget of \$3,205,524 received approval in February

LTVCA STAFF

Mark Peacock – CAO / Secretary-Treasurer



Happy Retirement Bruce & Michael!

Bruce Clark

Construction & Maintenance
Technician
1977-2018





Michael Latham

Eastern District Lead Hand 2006-2019

Conservation Authorities are on the front lines of the **Provincial Flood Forecasting & Warning Program**, & undertake floodplain mapping; modeling; monitor streamflow, rainfall & snowpacks; issue warnings; acquire floodplain lands & flood vulnerable structures; & operate dams, dikes, channels & erosion control structures.



February 06, 2019 3:04 pm Thames River -Thamesville

Flood Forecasting & Warning

Thames River

- 6th St. backwater dam and pumping station operated Feb.6
- Feb. 7 ice is a coursed at Prairie Siding, and moved over the stressing flood prote
- Feb.
 floo flood bulletins

 creek
- Rain issued roughout the ye

Lakes Erie and St. Clair Shorelines

- Affected by high lake levels and flooding and erosion
- August 27 on Erie Shore Drive 50 properties asked to evaculate, 12 homes damaged and road closure



Lake St. Clair flooding - Lighthouse Cove

Water quality monitoring sites

- Monitoring conducted at nine groundwater wells & 11 stream (surface) water locations for water quality indicators - dissolved oxygen, pH, conductivity, temperature & nutrients with analyses such as e-coli, metals & pesticides at select locations
- A Canada Ontario Agreement grant adds 11 more surface water locations & winter sampling
- Results used towards grades reported in the Watershed Report Card

31 Provincial water quality monitoring sites operated

Groundwater monitoring provides baseline information about groundwater levels and quality across the Province.

Benthic Monitoring

- Sampling for benthic macroinvertebrates (insects, worms & crustaceans that live at the bottom of the stream) continued with a partnership with the Biology Department at the University of Windsor
- Sampling helps us to better understand where to target stewardship projects in areas of greatest need



To maintain the vitality of our watersheds & protect peoples' lives and property from flooding & erosion, Conservation Authorities administer the **Conservation Authorities Act & its regulations**.

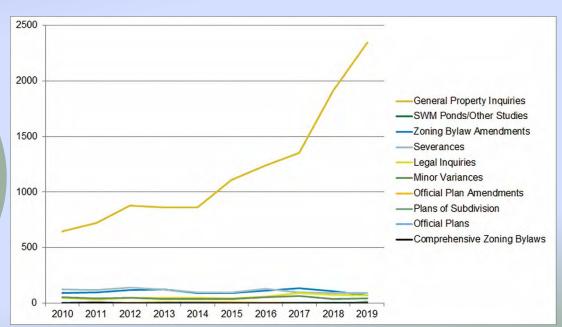




August 27, 2019, wind event along Lake Erie – Erie Shore Drive

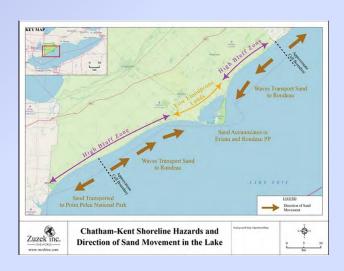
- Municipal Plan Review & the Development, Interference with Wetlands & Alteration to Shorelines & Water Courses – Ontario Regulation 162/06
 - Staff reviewed 494 applications under this regulation
 - Regulate development in or beside river & stream valleys, lake shores, hazard lands & wetlands to maintain & protect peoples' lives & property from flooding & erosion

3,121 regulatory & municipal plan review services



Chatham-Kent Lake Erie Shoreline Study

- LTVCA, Chatham-Kent, the Province, Gov't of Canada, International Joint Commission, Zuzek Inc. obtained a Natural Resources Canada grant for a comprehensive Lake Erie shoreline study in CK
- The study investigates Climate Change impacts on Lake Erie. Multiple public consultation meetings held
- Study will be completed in March 2020





- LTVCA updated policies for the Chatham-Kent Lake Erie Shoreline
 - Policies are used for the review of municipal planning applications and private submissions for development within regulated areas under O. Reg. 152/06 of the CA Act
 - Outline types of development for which we will grant permissions until larger C-K shoreline planning study is complete
 - In response to increasing damages along shoreline
 - When study completed, anticipated regulated area will be increased



Lakeshore erosion – Rose Beach Line in Chatham-Kent

Lighthouse Cove Secondary Plan

- With assistance from LTVCA,
 Lakeshore received a National
 Disaster Mitigation Program
 grant to investigate how to
 address safe access to the
 community during an ice jam flood
- Public information session held in May





 Thames River Bluegreen Algae Bloom



Late September, Thames River at Hwy.40

Thames River Clearwater Revival

- Multi-agency partnership to improve the Thames
- Drafting of a Shared Waters Approach intended to update the 1975 Water
 Management Plan
- Supporting the Antler River Guardians from the 4 Directions: First Nation Youth Stewardship Program





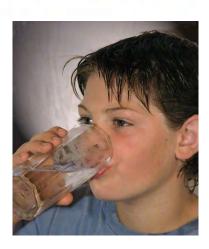








The purpose of the provincial Clean Water Act (CWA) 2006 is to protect existing & future sources of drinking water. Protecting water at the source – municipal wells & water intakes – is the first barrier in a multi-barrier approach to providing safe, clean supply of water.



Highlights of the Year

- Submission of the second Annual Progress Report on the implementation progress of Source Protection Plan
- Updates to mapping in the Source Protection Plan and Assessment Reports to reflect changes to drinking water systems; changes to certain plan policies address implementation challenges; and updates to the documents include new scientific information and technical changes.
- A refresh of the source protection committee (SPC) was required, for SPC member positions that expired in June.

The responsible care of our natural resources on a watershed basis is essential to balancing human & economic needs against the needs of our natural environment. Conservation Authorities have a long history working with landowners in the planning & delivery of watershed stewardship initiatives.

Staff provide opportunities for local projects, which protect & restore species & habitats, encourage a sense of ownership of environmental rehabilitation efforts, & protect our water resources.



Such as...

Tomorrow's Greener Schools Today
Your Roots are in CK
Free Tree Give-Away
Tree Planting Community Group Events
Public Workshops & Presentations
Community Partnerships

Aamjiwnaang First Nation

ALUS Canada
Agricultural 38+ion Council
Canada Summer Jobs
stewardship partners

Chatham-Kent Retention & Attraction

Chatham-Kent Secondary School
Chatham Lions Club
Chippewas of the Thames First Nation
Delaware Nation at Moraviantown
Ducks Unlimited Canada
Elgin Clean Water Program
Elgin Stewardship Council
Enbridge Gas

Environment & Climate Change Canada Fisheries and Oceans Canada (DFO) Forest Gene Conservation Association Forests Ontario

Engie (Erieau Wind Farm)

Kent Bridge Women's Association
Kiwanis Club of Chatham-Kent
LTVC Foundation
Oneida Nation of the Thames
Ontario Federation of Agriculture
Ontario Native Scape

Ontario Ministry of Agriculture, Food & Rural Affairs
Ontario Ministry of Environment, Conservation & Parks

Ontario Ministry of Transportation

Ontario Soil & Crop Improvement Association

209 landowners

benefited from \$1.3 M

in stewardship grants

Thames River Phosphorus Reduction Collaborative

Filbury District High School
Wildlife Habitat Canada

Neighbouring Conservation Authorities

\$1M **Ridge Landfill Community Trust** 10 year stewardship

South Kent



85 hectares naturally restored across the watershed





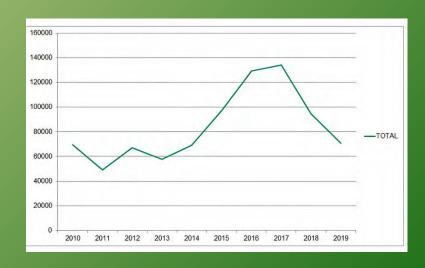
24 hectares tallgrass prairie planted



Forests Ontario - \$60,336 for 23 tree planting projects

71,279 trees planted

37 hectares reforested



- Ducks Unlimited Canada \$21,636
- Elgin Stewardship Council \$16,504

24
hectares
wetlands
created



The Elgin Clean Water Project

 A cooperative program between the Catfish Creek, Kettle Creek, Long Point Region & Lower Thames Valley CS13 (1) at 1 r 5 2 horities

 Assists landowners with projects to improve & protect water quality in Elgin County

13 clean water







Species at Risk (SAR)

- Signing Section 11 Conservation Agreement under the Species at Risk Act (SARA)
- Habitat Stewardship Program and Canada Nature Fund for Aquatic SAR funding approved by DFO for 2 and 4 years respectively for riparian corridors, wetlands
- Aquatic SAR flyers, social media postings on fish and mussel SAR

'Smart About Salt' Training Session Held





Alternative Land Use Service





Phosphorus Reduction Initiative

Western & central Lake Erie,
 Thames River identified as a priority watershed that need to see a 40% reduction in dissolved phosphorus & total spring loadings



- ONFARM Applied
 Research & Monitoring
- Administered by OSCIA and funded by Canadian Agricultural Partnership
- Environmental
 monitoring in 20km2
 area of Jeannettes Creek
 subwatershed

\$648,748
ONFARM Program
2019-2023

- MJCPRD continued to improve soil health and reduce agriculturally sourced phosphorus
- Launched Best Management
 Practice (BMP) incentive program
 for cover crops, grid or zone soil
 sampling, alternative phosphorus
 application practices, erosion
 control projects
- Expanded monitoring for data collection
- Environment and Climate Change Canada Great Lakes Protection Initiative and Canadian Agricultural Partnership



Watershed Awards Applauding Special People & Groups

Environmental Awards for Landowners & Organizations



Graduation Award Sponsorship



Volunteer Heroes Awards



STEPPING INTO NATURE Conservation Areas – Be Active! Be Healthy!

270 Conservation Areas in Ontario!

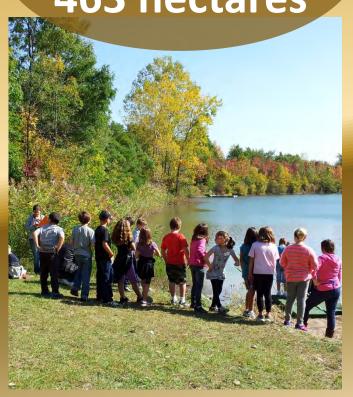
public conservation areas

18

Safety Committee regularly inspects our CA's

1 land donation totaling 4.9 hectares "Elva Gray Tallgrass 463" hectares

LTVCA 693 hectares protected wetlands, forests, tallgrass prairies, lakefront & habitat restoration sites

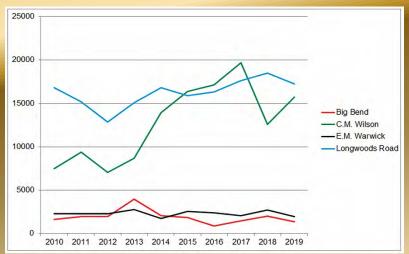


STEPPING INTO NATURE Conservation Areas — Be Active! Be Healthy!









STEPPING INTO NATURE

Conservation Areas – Be Active! Be Healthy!

New in 2019

'Let's Camp' online camping for Big Bend CA



New steel roofs and windows at E.M. Warwick CA hall and cabins



'Elva Gray Tallgrass Prairie' land donation



COMMUNICATIONS, OUTREACH & EDUCATION – A Part of All Programs

Communications enhance awareness & understanding of the goals & programs of the LTVCA for our target audiences, enabling them to support & enjoy our facilities & services. We use social media, literature, advertising, media releases, special events, watershed tours, festivals, speaking engagements & displays to relay our messaging.



COMMUNICATIONS, OUTREACH & EDUCATION - A Part of All Programs

Some Highlights



Publications and Presentations



"Go Wild Grow Wild" Expo in London & Other Displays



Directors' Bus Tour East Watershed





COMMUNICATIONS, OUTREACH & EDUCATION

- A Part of All Programs



STEPPING INTO NATURE Education Programs – Take Learning Outdoors!

- in Ontario over 410,000 students participate annually in CA outdoor education programs which meet curriculum expectations of the Ontario Ministry of Education
- **37 Interpretive Centres** operated by Conservation Authorities in Ontario

We teach children about local & global environmental issues, explore linkages between humans &

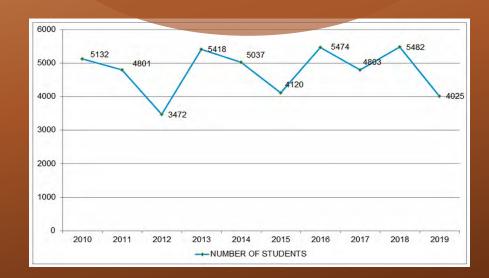
natural environment, & instill a greater appreciation & understanding of nature.

STEPPING INTO NATURE Education Programs—Take Learning Outdoors!

- Longwoods, C.M. Wilson, Ska-Nah-Doht Village, inclass & outreach programs
- Ontario Curriculum based education programs



4,025
children & their chaperones received education programming



STEPPING INTO NATURE Education Programs - Take Learning Outdoors!

- 10th Annual Chatham-Kent & Lambton Children's Water Festival
 - At C.M. Wilson Conservation Area











STEPPING INTO NATURE at Ska-Nah-Doht Village Longwoods Road Conservation Area

OUR MISSION

Ska-Nah-Doht Village & Museum continues to be a community leader, to educate about the past, collect & preserve local history, & faithfully interpret the Haudenosaunee - People of the Longhouse

OUR VISION

Ska-Nah-Doht Village & Museum is an interactive museum that engages the public in the preservation & presentation of the past through experiences on-site & in the community



STEPPING INTO NATURE at Ska-Nah-Doht Village



STEPPING INTO NATURE Education Programs - Conservation

- River & Creek Safety Program sponsored by local service clubs
 - Watershed inclass program



229 grade 2's

SKA-NAH-DOHT VILLAGE & MUSEUM

- Ska-Nah-Doht Village welcomes tourists from over 24 countries around the world
- The Turtle Trail Gift Shop
- \$22,992 from the Ministry of Tourism, Culture & Sport through the Community Museum Operating Grant



COMMUNICATIONS, OUTREACH & EDUCATION



COMMUNICATIONS, OUTREACH & EDUCATION

Aamjiwnaang First Nation

ALUS Canada

Agricultural Adaptation Council

Canada Summer Jobs

Canadian Agricultural Partnership

Canadian Chestnut Council

Captain Garnet Bracken IODE

Chatham-Kent Community Foundation

Chatham-Kent Community Partnership Fund

Chatham-Kent Public Health

Chatham-Kent Retention & Attraction

Chatham-Kent Secondary School

Chatham Lions Club

Chippewas of the Thames First Nation

Delaware Lioness Club

Delaware Nation at Moraviantown

Dillon Consulting

Ducks Unlimited Canada

Elgin Clean Water Program Elgin Stewardship Council

Enbridge Gas

Engie (Erieau Wind Farm)

Environment & Climate Change Canada

Fisheries and Oceans Canada (DFO)

Forest Gene Conservation Association

Forests Ontario

Friends of St. Clair

Glencoe District Lions Club

Kent Bridge Women's Association

Kiwanis Club of Chatham-Kent

LTVC Foundation

Oneida Nation of the Thames

Ontario Federation of Agriculture

Ontario Native Scape

Ontario Ministry of Agriculture, Food & Rural Affairs

Ontario Ministry of Culture

Ontario Ministry of Environment, Conservation & Parks

Ontario Ministry of Natural Resources and Forestry

Ontario Ministry of Transportation

Ontario Soil & Crop Improvement Association

Optimist Club of West Lorne

Project Learning Tree Canada Green Jobs

Ridge Landfill Community Trust

Rodney Lions Club

Rotary Club of Chatham Sunrise

Royal Canadian Legion Caradoc Branch 251

Scouts Canada & Riparian Rangers

South Kent Wind

Stewardship Kent Legacy Funds

Sunrise Rotary

TD Bank

Thames River Phosphorus Reduction Collaborative

Tilbury District High School

Tree Canada

Walker Environmental

West Elgin Mutual Insurance

Wildlife Habitat Canada



Applauding the inspired partners that provided

\$1.6 M to support our watershed conservation!

