

TOWNSHIP OF MELANCTHON

AGENDA

Thursday, March 15, 2018 - 5:00 p.m.

- 1. Call to Order
- 2. Announcements
- 3. Additions/Deletions/Approval of Agenda
- 4. Declaration of Pecuniary Interest and the General Nature Thereof
- 5. Approval of Draft Minutes March 1, 2018
- 6. Business Arising from Minutes
- 7. Point of Privilege or Personal Privilege
- 8. **Public Question Period** (Please visit our website under Agendas and Minutes for information on Public Question Period)
- 9. <u>Public Works</u>
 - 1. Information from Public Works Director regarding costs to maintain gravel roads vs. paved roads
 - 2. Other

10. <u>Planning</u> ** Note: Chris Jones, Township Planner will not be in attendance for this meeting

- 1. Applications to Permit
- 2. Unfinished Business
 - 1. Feral Cat ZBA, Annable ZBA, Blue Sky RV Resort ZBA, Source Water Protection -ZBA and OPA, Strada - OPA and ZBA
- 11. Police Services Board
- 12. Committee Reports
- 13. Correspondence

*Board & Committee Minutes

1. Minutes Mulmur-Melancthon Fire Board - Monday, October 23, 2017

* Items for Information Purposes

- 1. Nottawasaga Valley Conservation Authority 2017 Annual Report
- 2. Ontario Tire Stewardship Notice of Termination of Collector Agreement
- 3. H.J Lyon letter Protecting Water/Growing the Greenbelt
- 4. 2018 Municipal Levy & Budget Grand River Conservation Authority
- 5. Headwaters Tourism Minutes & Update
- 6. Ontario Good Roads Association Appoints 2018-2019 Board of Directors
- 7. Grey County Recolour Grey Public Meeting Tuesday, March 27, 2018
- 8. Burnside Petition for Drainage Work Leo and Alice Blydorp
- Nottawasaga Valley Conservation Authority Board Meeting Highlights February 23, 2018
- 10. Whitewater Hydrogeology 2017 Compliance Groundwater Monitoring Report for Shelburne South Pit Strada Aggregates
- 11. Building Better Communities and Conserving Watersheds Act, 2017 changes to the land use planning and appeal system
- 12. Approval of Sunday Gun Hunting Notice from the MNRF of the approval
- 13. Illegal Dumping Leading to Hazmat Responses Dufferin County Press Release

* Items for Council Action

- 1. Dundalk District Agricultural Society Fall Fair Request for Sponsorship for 2018 Fall Fair
- 2. Approval of Survey 1392119 Ont Ltd. Application For Consent B11/17

14. General Business

- 1. 2018 Draft Operating and Capital Budget Notice of Intent to Pass
- 2. New/Other Business/Additions
 - 1. NEC Delegation Mayor White
 - 2. Social Media Proposal Councillor Webster
- 2. Unfinished Business
 - 1. Township Signage
 - 2. Mulmur Melancthon Fire Department Budget 2018

15. Delegations

- 1. 5:20 p.m. David Thwaites, Chair, Melancthon Township Police Services Board regarding POA issue
- 2. 5:30 p.m. Gord Feniak, Tom Pridham, Ed DeLay from RJ Burnside and Associates update Council and Staff regarding status of drain maintenance requests, investigations and reports
- 3. 6:00 p.m. Vanessa Albanese, Township Property Standards By-law Enforcement Officer and Eugene Lammerding, County By-law Enforcement Officer regarding the RTA Residential Rental Maintenance Standards starting July 1, 2018

16. Closed Session

- 1. Adoption of Minutes February 15, 2018
- 2. Business Arising from Minutes
- 3. Personal matters about an identifiable individual, including municipal or local board employees Township Compensation Plan for Employees Proposal Update
- 4. Adjourn Closed Session with or without Report
- 17. Third Reading of By-laws
- 18. Notice of Motion
- 19. Confirmation By-law
- 20. Adjournment and Date of Next Meeting Thursday, April 5, 2018 9:00 a.m.
- 21. On Sites
- 22. Correspondence on File at the Clerk's Office

APPLICATIONS TO PERMIT FOR APPROVAL March 15, 2018 COUNCIL MEETING

PROPERTY OWNER	PROPERTY DESCRIPTION	TYPE OF STRUCTURE	DOLLAR VALUE	D.C.'s	COMMENTS
Geraldine Sherritt	Lot 287-288, Con.1 SW	Single car garage	\$20,000.00	No	
Applicant: Greg Patton	157056 Highway 10				
Donald Patten	Part Lot 20, Con.1 OS	Residential 2 storey home			
	Mulmur-Melancthon Townline	1700 sq feet	\$350,000.00	Yes	
Keith Ackerson	281 Main St., Horning's Mills	Renovation to basement			
	Lot 6 Plan 17A	1302 sq feet	\$60,000.00	No	
Maple Ridge Plastics Inc.,	318401 8th Line NE	Agricultural Storage Shed	\$40,000.00	No	
Applicant: Reuben Bowman	Lot 28, Con.9 NE	2400 sq feet			



MINUTES MULMUR-MELANCTHON FIRE BOARD Monday, October 23, 2017 Fire Hall – 7:00 pm

Present:	Chair Paul Mills from Mulmur Township Vice Chair James Webster from Melancthon Township					
	Member Darren White from Melancthon Township Fire Chief Jim Clayton Secretary Kerstin Vroom					
Firefighters:	Captain Dana Prentice, Captain Brendon Bogers, Captain Mathew Waterfield					
Township Staff:	John Willmetts, Director of Public Works, Mulmur Township					
Absent with Regrets:	Member Earl Hawkins from Mulmur Township Deputy Fire Chief Jon Reid					

1. Call to order by Chair

Chair Mills called the meeting to order.

2. Approval of the Agenda

Motion #55-17: White-Webster: THAT the agenda be approved as copied and circulated.

Carried.

3. Declaration of Pecuniary Interests

Chair Mills stated that if any member had a disclosure of pecuniary interest that they could declare the nature thereof now or at any time during the meeting.

4. Approval of Previous Meeting's Minutes

Motion #56-17: White-Webster: THAT the minutes of September 11, 2017 are approved as copied and circulated. Carried.

- 5. Old/New Business
 - i) Tanker Update

Page 1 of 2

BD (comm # 1 MAR 15 2018 The Board was advised that the engine on the Tanker failed again and is not repairable. This tanker was scheduled to be replaced in 2020. The Board reviewed several quotations for remanufactured engines as well as discussed the cost of purchasing a new and/or used tanker or just a cab and chassis. The Board discussed the recent repairs to the tank itself, which are estimated to last another four years. The Board deemed it most expedient and fiscally responsible to replace the motor with a remanufactured one keeping the existing tank, cab and chassis. The Board further noted that when the time came to replace the tanker, reserve funds would be built up again and the old one could be sold at auction. The Board also agreed that although the engine came with a two year warranty, if reasonable, an extended warranty could be added.

Motion #57-17: White-Webster: THAT the Mulmur-Melancthon Fire Board reviewed the options for the tanker and approves the quote from Lewis Motor Sales in the amount of \$29,469.37; AND FURTHER THAT, the funds for this purchase be taken from the capital reserve fund; AND FURTHER THAT, additional work as discussed – clutch, high temp/low oil shut off – be done at the same time with the funds coming from capital reserves.

Carried.

Direction was given to the Secretary to approve the purchase of the extended warranty if deemed reasonable.

6. Confirming Motion

Motion #58-17: White-Webster: THAT be it resolved that all actions of the Members and Officers of the Mulmur/Melancthon Fire Board of Management, with respect to every matter addressed and/or adopted by the Board on the above date are hereby adopted, ratified and confirmed; and each motion, resolution and other actions taken by the Board Members and Officers at the meeting held on the above date are hereby adopted, ratified and confirmed. Carried.

7. Motion to Adjourn

Motion #59-17: White-Webster: THAT we do now adjourn at 7:39 pm to meet again at the call of the Chair. Carried.

Approved:

James Webster

Kerstin Vroom

Chair

Secretary



Feb 26, 2018

The Township of Melancthon Denise Holmes, CAO/Secretary-Treasurer 157101 Highway 10 Melancthon, Ontario LON 1S9

Dear Ms. Holmes:

I am pleased to share with you the Nottawasaga Valley Conservation Authority's 2017 Annual Report. This report provides a summary of the accomplishments of the NVCA over the past year as we work with our partners to achieve our mission to lead, promote, support and inspire innovative watershed management.

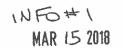
A supplement outlining NVCA Services for The Township of Melancthon is included with the Annual Report.

The annual report is available on our website at nvca.on.ca (under About Us -Plans, Annual Reports & Financials). Should you require additional printed copies for your organization, please contact our administrative office at 705-424-1479 or admin@nvca.on.ca.

Sincerely,

Doug Hevenor Chief Administrative Officer

Enclosure.





Township of Melancthon Supplement to the NVCA 2017 Annual Report

Nottawasaga Valley Conservation Authority

The Nottawasaga Valley Conservation Authority (NVCA) is your public agency dedicated to creating a healthy environment and communities through innovative watershed management.

We are committed to protecting watershed communities from natural hazards like flooding and erosion. We work to preserve and enhance watershed land and water resources. We connect our community with their watershed through nature-based educational and recreational opportunities.

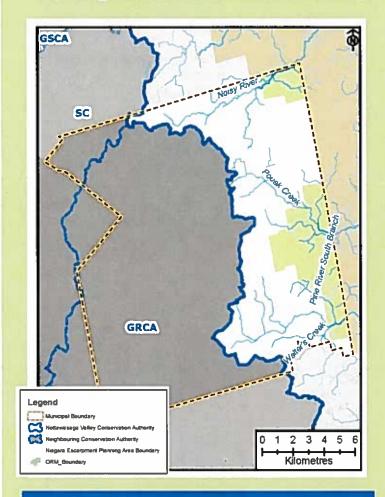
NVCA's jurisdiction extends over the 3,700 km² of the Nottawasaga Valley watershed. The Nottawasaga River and its tributaries run from highlands on the Oak Ridges Moraine, Niagara Escarpment and Oro Moraine through the internationally significant Minesing Wetlands before flowing into Georgian Bay.

In Melancthon, NVCA's jurisdiction covers 128.8 km² (41%) of the municipality. Lands adjacent to the Noisy and Pine rivers and their tributaries are part of the Nottawasaga Valley watershed.

NVCA Services for Melancthon Residents

- planning review to ensure safe development with respect to flooding and erosion hazards
- flood and low-water monitoring programs
- agricultural land stewardship grant opportunities
- drinking source water protection
- nearby recreational conservation lands

NVCA jurisdiction in Melancthon



2017 NVCA Board of Director Member Councillor James Webster

2017 NVCA Levy Contribution \$10,633 (Total 2017 NVCA Budget—\$5.1 million)

NVCA Service Delivery Township of Melancthon

2017 Services by the Numbers

Planning and Regulations & Enforcement

- 4 Solicitor Inquiry Responses
- 8 Conservation Authorities Act Approvals
- 4 Zoning Amendments, Official Plans & Official Plan Amendments
- 5 Consents, Variances & Niagara Escarpment Commission Comments
- 32 General Inquiry Responses

Watershed Monitoring

- 15 Flood Messages Issued
- 3 Groundwater Monitoring Sites

Corporate

1 Freedom of Information Request



Source Water Protection—NVCA served as the municipality's risk management official, and throughout 2017 continued work in support of the this program.



Nottawasaga Valley Conservation Authority 8195 8th Line, Utopia, ON LOM 1T0

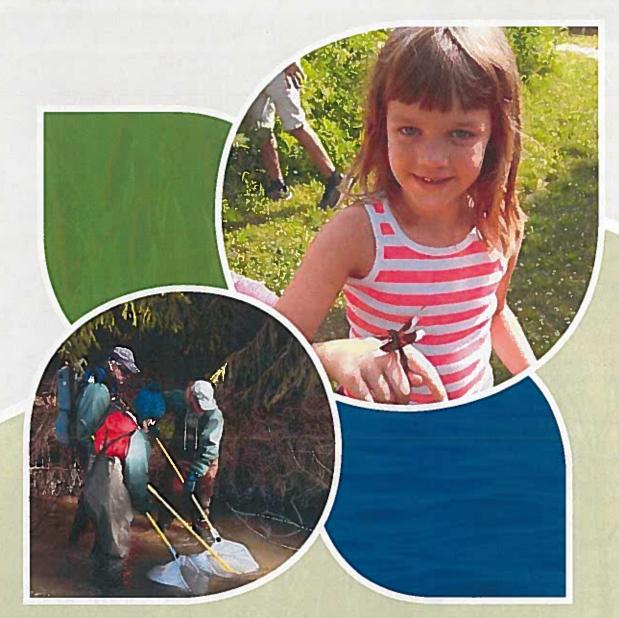
8195 8th Line, Utopia, ON LOM 1T 705-424-1479 • nvca.on.ca



Alternative formats available. Contact NVCA at 705-424-1479 or admin@nvca.on.ca



Nottawasaga Valley Conservation Authority



2017 Annual Report Healthy Watershed, Healthy Communities



2017 Board of Directors

- Councillor Bob Meadows,
 Township of Adjala-Tosorontio
- Councillor Gail Little,
 Township of Amaranth
- Councillor Rose Romita, City of Barrie
- Deputy Mayor Gail Ardiel, Vice Chair, Town of The Blue Mountains
- Councillor Ron Orr, Town of Bradford West Gwillimbury
- Councillor Connie Leishman, Township of Clearview
- Councillor Deb Doherty, Town of Collingwood
- Councillor Keith White, 2nd Vice Chair, Township of Essa
- Councillor Terry Mokriy, Municipality of Grey Highlands
- Councillor Doug Lougheed, Chair, Town of Innisfil
- Councillor James Webster, Township of Melancthon
- Councillor Fred Nix,
 Town of Mono
- Councillor Keith Lowry, Township of Mulmur
- Deputy Mayor Donna Jebb, Town of New Tecumseth
- Councillor Phil Hall,
 Township of Oro-Medonte
- Councillor Walter Benotto,
 Town of Shelburne
- Mayor Bill French, Township of Springwater
- Deputy Mayor Nina Bifolchi, Town of Wasaga Beach



Nottawasaga Valley Conservation Authority

The Nottawasaga Valley Conservation Authority (NVCA) is your public agency dedicated to creating a healthy environment and communities through innovative watershed management.

We are committed to protecting watershed communities from natural hazards like flooding and erosion. We work to preserve and enhance watershed land and water resources. We connect our community with their watershed through nature-based educational and recreational opportunities.

As one of the 36 conservation authorities legislated by the Ontario *Conservation Authorities Act*, we are governed by a board of directors appointed by our 18 member municipalities. Critical to our success is our strong partnerships with our member municipalities, government agencies, community partners and local landowners.

NVCA's jurisdiction extends over the 3,700 km² of the Nottawasaga Valley watershed, excluding the lands within CFB Borden. The Nottawasaga River and its tributaries run from highlands on the Oak Ridges Moraine, Niagara Escarpment and Oro Moraine through the internationally significant Minesing Wetlands before flowing into Georgian Bay.

A Time of Change and Renewal

2017 was a year of change and renewal for NVCA.

We said good-bye to several dedicated board members, without compromising good governance and oversight, as we officially reduced the size of our board to 18 members—one from each of our watershed municipalities. We also said good-bye to leadership staff at the authority, with the retirement of Gayle Wood, CAO, and Glenn Switzer, Director of Engineering.

With these changes came opportunities to renew our commitment to bringing people and organizations together to lead, promote, support and inspire innovative watershed management.

In-house, we welcomed a new CAO, Doug Hevenor, and restructured to bring planning, engineering and monitoring staff under one umbrella, watershed management services. This new department builds on existing efficiencies to ensure that the scientific data collected through our flood, water and groundwater monitoring programs informs policy and decision making for NVCA and our member municipalities.

More broadly, we continued to bring people and organizations together through the many partnerships—be they with local municipalities, funders, volunteers, community groups or industry sectors—that are critical to the success of NVCA.

It was partnerships with Georgian College and a wide range of stakeholders that allowed us to develop a well-researched and locally focused Climate Change Strategy and Action Plan for the authority.

Similarly, it was our strong ties to the agricultural community and other private landowners that saw us get "shovels-in-the-ground" for forestry and stewardship projects that will reap long-term benefits for our environment and our municipalities.

And it was through the tireless support of volunteers and service organizations like the Rotary Club of Barrie that we were able to offer recreational and educational opportunities that connected people of all ages with the beauty of this watershed.

As we move into 2018, we look forward to building on these partnerships as we engage with local stakeholders in developing a new integrated watershed management plan. This plan will set a course for our actions to protect, restore and enhance waterways, wetlands and other natural assets in our watershed in the face of increasing pressures from development and climate change. But to implement this plan, and to provide the best possible service to our municipalities and the public, the authority must address the significant challenges ahead.

Chief among these is the increasing workload that we are already starting to see as a result of growth in many watershed municipalities. We are a lean organization, and have not added staff the past few years to keep budget increases low. That needs to change as we prepare for the pressures that significant development will bring.

We need to start taking the

necessary steps to adequately staff the authority with the best and brightest—professionals that will work to ensure that development is compatible with our primary mandate, protecting people and property in our watershed.

We also need to develop a plan to expand our facilities to provide an efficient working space to accommodate growing staff, programs and administrative needs.

Continued support from our municipal members and other partners will be critical in moving forward to address these and other challenges before us. Working together, we can find innovative solutions that position the authority to continue its role in ensuring the health of the Nottawasaga Valley watershed and its communities.





Our Vision

Innovative watershed management supporting a healthy environment, communities and lifestyles

Our Mission

Working together to lead, promote, support and inspire innovative watershed management



Watershed Management Services

Watershed Management Services works to protect people and property from risks posed by flood, erosion and other natural hazards.

To facilitate effective decision making, NVCA advances our knowledge of the watershed through monitoring, and enacts our understanding through policy and communication.



NVCA's gauge network measures water flows In area streams & rivers In 2017, NVCA's planning, regulations, engineering, monitoring and groundwater departments amalgamated to form Watershed Management Services. This new service area promotes integration and offers opportunities for improved efficiencies.

Planning and Regulations & Enforcement

Participated in various legal matters, including a Ontario Municipal board hearing and background regarding a Leave to Appeal a permit matter to the Supreme Court of Canada.

Established planning service agreements with City of Barrie, Township of Clearview and Township of Essa.

Processed 1,900 applications and inquiries under various provincial acts: Conservation Authority Act, Planning Act, Niagara Escarpment Planning and Development Act, Aggregate Resource Act, Green Energy Act, Drainage Act, and Environmental Assessment Act.

Working with GIS staff, updated the mapped erosion hazard limit to provide a more accurate assessment for application of the regulations.

Water Resources & Flood Warnings

Inspected and operated flood and erosion control structures, including Utopia, New Lowell and Tottenham dams.

Issued 15 flood messages, including a flood warning for the June 23, 100-year storm event that caused serious flooding in portions of the watershed.

Undertook repairs to the Tottenham dam, which was damaged during the June 23 storm event.

Improved the NVCA stream gauge network. Work focused on upgrading components of various stream gauges and weather stations to improve data quality and reliability. In collaboration with Ministry of Natural Resources and Forestry, work began on the installation of new sensors to federally operated gauges within NVCA watershed.

With funding through the National Disaster Mitigation Program, undertook 2-D modelling of floodplains in potential damage centres to determine the extent and costs of damage in the event of a significant flood event.

Watershed Monitoring

Monitored water quality and quantity in local streams and rivers throughout the watershed, including monitoring at 18 sites as part of the Provincial Water Quality Monitoring Network.

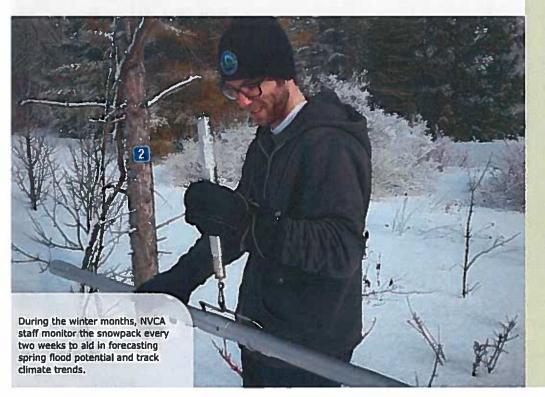
Continued support of the Marsh Monitoring Program in the Minesing Wetlands and the Forest Bird Monitoring Program at the Tiffin Centre for Conservation.

Conducted reviews and updated information on wetlands in Mono, Innisfil, Collingwood, Wasaga, Amaranth, Bradford West Gwillimbury, Barrie, Shelburne, Melancthon, Grey Highlands, Town of the Blue Mountains, Essa, Caledon, New Tecumseth and Clearview.

Provided ecological review for planning matters.

Completed local wetland mapping updates in other municipalities based on environmental impact studies and site inspections.

Conducted aquatic studies on Pine River in support of Everett Assimilative Capacity Study.







Drinking Water Source Protection

Provided ongoing local support efforts for the implementation of the South Georgian Bay Lake Simcoe Source Protection Plan.

As Risk Management Official for Amaranth, Essa, Collingwood, Innisfil, Melancthon, Mono, Mulmur, New Tecumseth and Shelburne, completed risk management plans for significant drinking water threats as identified through the source protection process.

Participated on the regional working group in support of the source water protection education and outreach strategy. Through this initiative and with the support of several municipal partners, created locally specific promotional materials, including several videos, infographics and primers.

Developed an online system to allow local risk management officials to easily generate source protection annual reports.

Groundwater Monitoring

to both planning and source water

protection.

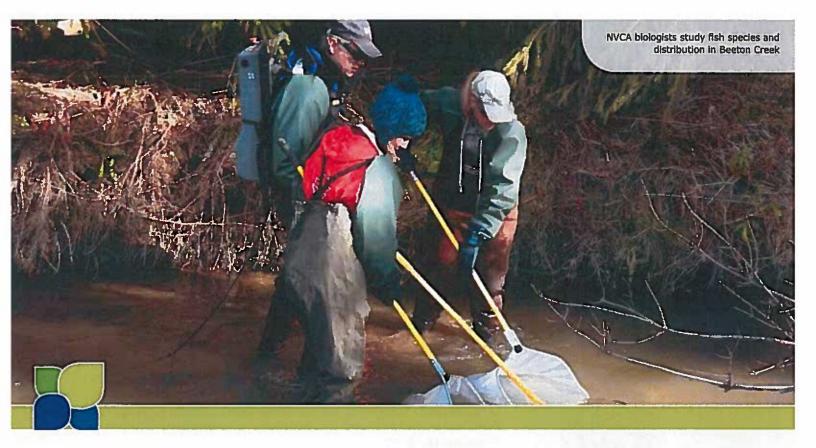
Monitored groundwater at 92 wells in the watershed for water levels and ambient water quality as part of the Provincial Groundwater Monitoring Network and other well networks.

Completed the Drought Management Pilot Project for the Innisfil Creek Sub-watershed, a project for the Ministry of Natural Resources and Forestry.

Undertook the Ministry of Environment and Climate Change-funded Hydrologic Function project in the Minesing Wetlands.

Partnered with the Ontario Geological Survey to add 8 new monitoring wells at 7 location as part of the OGS-lead Central Simcoe Project.





Lands, Education & Stewardship Services

Lands, Education & Stewardship Services works to enhance, restore and safeguard sensitive environmental areas, and through outdoor education and public programming, connect and engage residents with the naturalside of the watershed.



High school volunteers learn how to stabilize eroding stream banks

Conservation Lands Program

Hosted 25,500 visitors at 12 conservation areas across the watershed.

Partnered with Friends of Fort Willow, Friends of Minesing Wetlands, Friends of Utopia Gristmill and Park, Blue Mountain Watershed Trust, the Bruce Trail Club, Brereton Field Naturalists, Rotary Club of Barrie, Barrie Photography Club and many other groups to maintain and improve recreational opportunities at NVCA conservation areas.

Offered 100 hunting passes for Minesing and Osprey Wetlands, and secured hunters for exclusive hunting opportunities.

Updated interpretive signs, created an accessible trail and provided additional benches and picnic tables at Fort Willow Conservation Area, thanks to a grant from Infrastructure Canada.

Continued tree planting efforts within the Afghanistan Memorial Forest with the Rotary Club of Barrie.

Hosted more than 30 groups and outdoor events at the Tiffin Centre (including Scouts, Girl Guides, cadets and live-action role playing groups). Also hosted 20 wedding celebrations and a celebration of life.

Completed the construction of a new washroom facility at the Tiffin Conservation Area, with funding from the Rotary Club of Barrie.

Increased maple syrup production by installing sap lines throughout the Tiffin Conservation Area.

Renewing lease with Ontario Heritage Trust for the "Tiffin East" property.

Lands, Stewardship & Forestry *by the numbers*





Restoring floodplain and stream habitat along Lamont Creek



Protecting water quality through on-farm stewardship

Enhancing streams and wetlands through tree planting

Stewardship & Restoration

Completed a large-scale stream habitat restoration construction project at the Clearview EcoPark on Lamont Creek. The project saw 235 m of stream restored, two gravel riffles installed for rainbow trout spawning habitat, three wetland cells created for frog habitat, and construction of 2,250m² of floodplain habitat. More than 185 student and public volunteers assisted with the project. Supported by Clearview Township, Environment and Climate Change Canada, Province of Ontario and the Nottawasaga Watershed Improvement Program (N-WIP).

Collected fish community and stream temperature baseline data for future projects along the Black Ash Creek in The Blue Mountains, Clearview and Collingwood, and Beeton Creek in New Tecumseth. Supported by Bruce Power and the South Simcoe Streams Network.

Constructed rock riffle habitats in Coates Creek, Clearview, to enhance water quality and provide fish spawning habitat, with funding through Environment and Climate Change Canada.

Stabilized two channels along the Mad River to maintain critical water flows that had been "escaping" into an artificial drain. Supported by Clearview Township, Environment and Climate Change Canada, Natural Conservancy of Canada (NCC) and N-WIP.

Working with the Headwaters Streams Committee and the Town of Mono, created a 25 m long berm in order to complete the restoration of 165 m of cold water brook trout stream habitat.

Mapped stands and removed more than 7,500 kg of invasive *Phragmites* in Collingwood and Wasaga Beach, with support from Blue Mountain Watershed Trust, Georgian Bay Forever, Environment and Climate Change Canada, the Province of Ontario, the Town of Collingwood, and the Ontario Federation of Anglers and Hunters.

Leveraged \$107,000 of funding and donations to support \$492,000 worth of projects that improve water quality and restore habitat. Funders include Environment and Climate Change Canada, TD Friends of the Environment, Great Lakes Guardian, Trillium, UPS, NCC and other corporate donations.

Worked with farmers and rural landowners to reduce 81 kg/year of phosphorus runoff to streams and lakes, helping to prevent up to 40 tonnes of excessive algae growth.

Engaged more than 1,550 volunteers and partner groups in hands-on habitat restoration projects.

Worked with farmers to protect rivers and wetlands by installing over 400 m of fencing to restrict livestock from headwaters wetlands. In addition, completed 20 on-farm stewardship projects, including manure storages, clean water diversion and planting stream-side buffers that will protect waterways and groundwater from bacteria, nutrient runoff, algae blooms and nitrate contamination.

With NVCA's forestry program, planted trees along 6.8 km of stream and rivers.

Conducted 54 site visits with landowners interested in stewardship projects. Answered 229 information requests. Engaged hundreds of people at community events and volunteer habitat restoration days.

Forestry Program

Planted 218,780 trees on 31 properties across the watershed. This is the most trees planted by NVCA's forestry program in a single year to date and one of the largest plants by a conservation authority.

Received financial contributions (outside of levy) from provincial and municipal governments, corporations and private landowners totaling \$410,557.

Managed 1,969 acres of forest; worked with landowners to develop 37 Managed Forest Plans.

Conducted Arbour Day sales in three municipalities, selling 4,800 tree seedlings to urban and rural landowners.

Environmental Education & Public Events

Provided quality outdoor and environmental education to 11,617 youth in all initiatives combined. This includes welcoming 362 youth over the summer as part of the Camp Tiffin day camp program. New this year, a special one-week camp was offered to youth new to Canada, with funding through the Rotary Club of Barrie.

Offered public programming across all seasons:

- Christmas Bird Count for Kids
- March Break Family Day
- Spring Tonic Maple Syrup Festival (with Rotary Club of Barrie)
- Festival at the Fort (with Friends of Fort Willow, Rotary Club of Barrie and Springwater Township)



With funding from TD Friends of the Environment, NVCA created the new "Free Play Forest" at the Tiffin Centre, allowing young children an opportunity to independently explore the woodland environment.



11,617

youth participated in education program at the Tiffin Centre



Corporate Services

Corporate Services plays a critical supportive role to the board of directors and across the organization, providing finance, human resources, communications and administrative leadership.



Stakeholders provide guidance on NVCA's Climate Change Action Plan

Governance

Working with the Board of Directors, completed implementation of recommendations from the 2014 Service Delivery and Operational Review.

Celebrated conservation champions, volunteers, and partners at the annual Evening of Thanks.

Developed NVCA's Climate Change Strategy and Action Plan.

Corporate Support

Updated the NVCA volunteer strategy.

Processed 6 Freedom of Information requests.

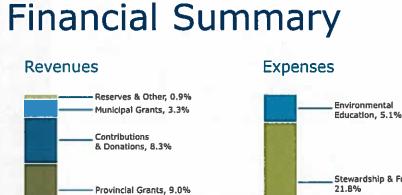
Undertook a corporate culture process with staff.

Provided financial, human resources, communications and administrative support to the board of directors and all NVCA departments.

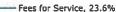
Geographic Information Systems (GIS) & Information Technology

Reassessed the mapped erosion hazard limit to provide a more accurate assessment for application of the regulations.

Developed a web-based GIS application to provide staff and partners with better access to NVCA mapping data.

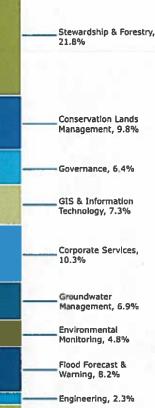


Federal Grants, 11.0%



Fees for Service, 23.6%

Municipal Levy, 43.8%



Planning and Regulations & Enforcement, 16.9%

In 2017, NVCA had a total budget of \$5,099,049. Revenue came from diverse sources, including member municipalities, provincial and federal governments, local non-governmental partners, and user fees for programs and services.

The 2017 balanced budget as approved required the use of \$108,535 from NVCA's reserves. With solid revenue performance including new funding partnerships and expenditure control, NVCA ended the year requiring the use of \$20,872.

This financial information is condensed from our year-end, unaudited, statements. The completed auditors report for the year ending December 31, 2017, is anticipated to be available in May 2018, copies of which will be posted to our website at nvca.on.ca.

The NVCA Board of Directors and staff extend a heartfelt thank-you to all our watershed partners for their volunteer and financial support throughout 2017.

NVCA Staff

Permanent and contract staff as of December 31, 2017.

Doug Hevenor, **Chief Administrative Officer**

Office of the CAO—Laurie Barron. Coordinator, CAO and Corporate Services • Heather Kepran, Communications Coordinator

Corporate Services Sheryl Flannagan, Director

Finance & Administration—Christine Knapp, General Accountant • Debbie Swindells, Accounts Receivable/Payroll Specialist • Kimberly Winder, Receptionist/Administrative Assistant

GIS/IT-Hendrik Amo, Manager GIS/IT • Robert Bettinelli, Information Management and Technology Specialist • Kristopher Robinson, GIS Technologist • Lyle Wood, GIS Analyst

Lands, Education & Stewardship Services **Byron Wesson, Director**

Lands & Operations—Kyra Howes, Manager, Lands & Operations • Mike Bacon, Lands & **Operations Technician Assistant • Clint Collis,** Lands & Operations Technician • Spencer Macdonald, Lands & Operations Technician • Henry Pelley, Tiffin Maintenance Technician

Environmental Education—Naomi Saunders, Environmental Education Facilitator • Maegan McConnell, Environmental Education Assistant • Grant Wilson, Environmental Education Assistant • Environmental Education Associates: Lesley Boughner, Bob Cole, Charlotte Driscoll, Susan Hall, Aleigha Oosterhuis, Tiara Rycroft

Forestry-Rick Grillmayer, Manger, Forestry • Alisha Tobola, Forestry Technician

Stewardship—Fred Dobbs, Manager, Stewardship Services • Sarah Campbell, Aquatic Biologist • Shannon Stephens, Healthy Waters Program Coordinator

Watershed Management Service **Chris Hibberd, Director**

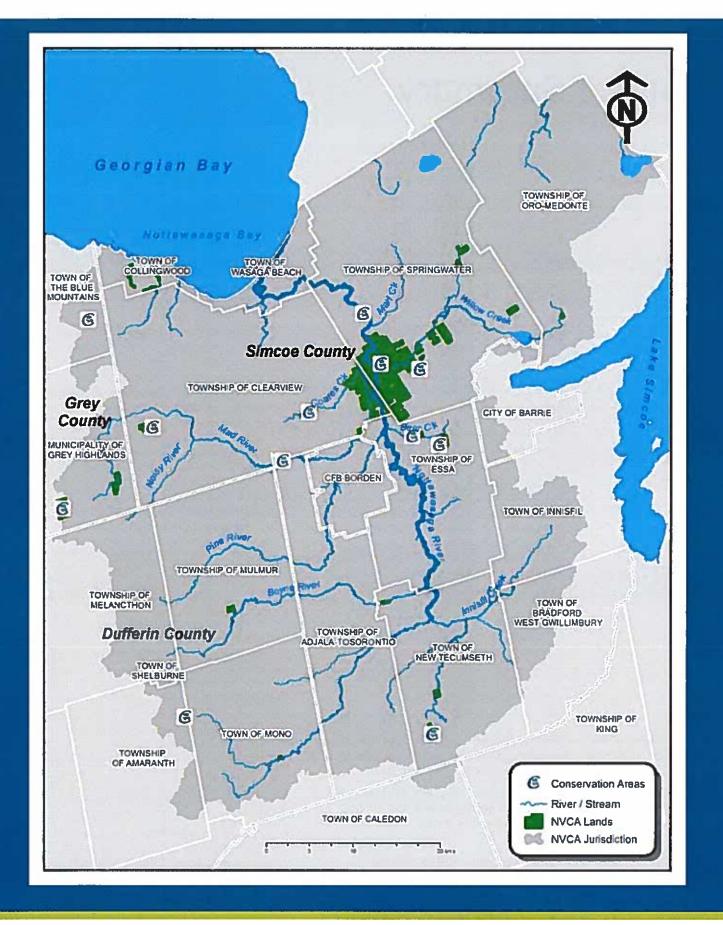
Engineering & Flood Program—Peter Alm, Water Resource Engineer • Michael Saunders, Engineering Technologist • Sheri Steiginga, Flood Operations Field Specialist

Groundwater & Source Water-Ryan Post, Lead Hydrogeologist • Angela Mills, Project Analyst

Monitoring—David Featherstone, Manager, Watershed Monitoring • Ian Ockenden, Watershed Monitoring Specialist

Planning-Lee Bull, Manager, Planning Services • Logan Juffermans, Planning Assistant

Regulation & Enforcement—Barbara Perreault, Manager, Regulations & Enforcement Andrew Fera, Regulations Technician - Julie Panovski, Regulations Assistant





Nottawasaga Valley Conservation Authority John Hix Administration Centre 8195 8th Line, Utopia, ON, LOM 1T0 705-424-1479 • nvca.on.ca A member of:





RECEIVED FEB 2 6 2018

Rethink your relationship with fires

Dear OTS-Registered Collector # 2014353,

As you are aware, Ontario Tire Stewardship (OTS) has been directed by the Minister of the Environment and Climate Change (MoECC) to wind-up the Used Tires Program on December 31st, 2018. OTS submitted its Wind-Up Plan (WUP) to the Resource Productivity and Recovery Authority (RPRA). Information with respect to the Wind-Up Plan can be found on RPRA's website at <u>www.rpra.ca</u>.

The Wind-Up Plan details an approach to winding-up OTS incentive programs and reporting requirements, and the Used Tires Program will cease on December 31st, 2018. As a result, OTS is providing notice in accordance with section 8.2(b) of the Collector agreement between OTS and your organization that the Agreement will be terminated on December 31st, 2018. The provisions in the Agreement relating to activities following termination will then apply.

Attached you will find formal notice of the termination of the Agreement delivered in accordance with the terms of the Agreement. OTS will be providing more information on the processes and reporting that will be in effect in 2019 following the termination of the Agreements.

As the Wind-Up Plan finalization process moves forward, we at OTS look forward to continuing to work with you to deliver the Used Tires Program and ensure Ontario's tires are diverted at the same high rates as we currently deliver and to minimizing any potential disruption from the wind-up of the Used Tires Program and OTS.

If you have any questions, please contact us at 1-888-687-2202 or via email at info@rethinktires.ca.

Regards,

Andrew Horsman Executive Director

300 The East Mall, Suite 100 • Toronto, ON M98 687 • 1 888 OTS 2202 • RethinkTires.cd

NFO # 2 MAR 15 2018



Rethink your relationship with tires

NOTICE OF TERMINATION OF COLLECTOR AGREEMENT

January 26th, 2018

Private and Confidential

CORP OF THE TOWNSHIP OF MELANCTHON REGISTRATION #:2014353 157101 HIGHWAY 10 RR 6 MELANCTHON, ONTARIO L9V2E6

Attention: CORP OF THE TOWNSHIP OF MELANCTHON

Dear Sirs/Mesdames:

RE: Collector Agreement (the "Agreement") between Ontario Tire Stewardship ("OTS") and CORP OF THE TOWNSHIP OF MELANCTHON.

Reference is made to the Agreement, between OTS and CORP OF THE TOWNSHIP OF MELANCTHON.

Pursuant to section 8.2(b) of the Agreement, OTS hereby gives **CORP OF THE TOWNSHIP OF MELANCTHON** formal notice that it is exercising its right to terminate the Agreement, effective as of December 31, 2018.

This termination notice is without prejudice to any and all rights and remedies of OTS at law or in equity under the Agreement or under any other relevant documents or agreements.

DATED at Toronto this 26th day of January, 2018.

ONTARIO TIRE STEWARDSHIP

Per:

Name: Andrew Horsman Title: Executive Director

300 The East Mall, Sulte 100 • Toronto, ON M9B 6B7 • 1 888 OTS 2202 • Rethink Tres.ca

- J. Lyon RECEIVED Photecting Water 238101 4th Line WE MAR 5 - 2018 Provenceial Planning Policy Branch. Malancthon ON Ministry of Municipal Affairs hgv 2]2 777 Bay Street, 13th Floor Toronto, ON, MSG ZES March 4,2013 Dear Sin Re: Protecting Water / Growing the Greenbelt. I submit the following comment in respect to their in Ficture. 1. Cold Water Streams VS Manicipal Thains Much of the study area (Appendix 1, Map 1, Public Consultation Document) for the township of Melandhon contains a very extensive and complex system of Municipal Drains. These drains are not cold wata Streams. These drains represent a key component of the township in frasher ture. They are absolutely essential to support the very strong agricultural activities of the rownship. Any policies that hinder, delay or in anyway interferent the timely

routine maintenance of these drain are macaptable.

20 Mapping of wetlands In melanchrow only the mapping of the Travinevally Significant wetbuds should be considered reliable 100 often the mapping of those wetlands that are often labelled as hocally significant or Unevaluated are little more than a portion of the farm that was once productive

but had been neglected for a number of geers. Most have very acceptable capicaltural soil type, which when comband with a favourable improvement in a number of key factors heat units, commodity prices, improved seed varieties — has resulted in many of these wet lands being brought back into active agricultural production.

- 3. Defferine Area Moraines Shelburne Area The study area include the escarp ment area moraines that supplies groundwater to shelburne + ... From Appendix I, Map I of the Public Consultation Decommend, Shelburne is located immedeentely adjacent to a segnificant moraine. Why was the town's last source water well located to the west on prime agricultural lands? It has resulted in a well-head protection area aproaching 1000 acres and includes an area of prime potative land. Where acteur alternative is available, locating a well on prime agricultural land the morain must be straight forward and not be such an onerous proces that applicants of for the laster option of famland.
 - 4 Orangeville Open House.

This session was reasonably extended considering the long writer arise for many. Un fortunatily many went home on whig, being further convinced that government is again try to pull a fast-one on them. Yet again no respect for the rural farm regident. The first order of business

when they approached one of the panels was to try to locato their property/farm. of course with no noods for reference that simply was not possible for many interested attendes. Not could any one of the army of government staff manning the displays chile to offer any aeristance. They came to see if this gover ment mitiative would affect them, and too many went home now serve. What doch you appect?

cs. Sylvia Jones MPP Township of Melanchon 2

Sincerell

Denise Holmes

From:	Eowyn Spencer <espencer@grandriver.ca></espencer@grandriver.ca>
Sent:	Friday, February 23, 2018 2:40 PM
То:	Andrew Grozelle; Brenda Tabor; Charlene Touzel (ctouzel@brantford.ca); Denise Holmes; Dina Lundy; Evelyn Eichenbaum; Heather Boyd; Hyde, Joanne; Jane Wilson; Karen Landry; Karren Wallace; Karyn Bennett; Kerri O'Kane; Kris Fletcher; Manny Baron; Meaghen Reid; Milne, Graham (Graham.Milne@halton.ca); Patricia Berfelz; Rose Caterini; Stephen.OBrien@guelph.ca; Susan Stone; Theresa Campbell
Cc:	Sonja Radoja; Karen Armstrong; Joe Farwell
Subject:	2018 Municipal Levy & Budget - Grand River Conservation Authority
Attachments:	GM-02-18-17 - Budget Package 2018.pdf; Summary of Municipal Levy - GRCA 2018 Budget.pdf
Importance:	High

Good afternoon Grand River watershed member municipality:

By letter dated January 22, 2018 you were advised that a meeting of the General Membership of the Grand River Conservation Authority would be held on February 23, 2018 to consider the 2018 Budget and General Levy. At that meeting, the following resolution was passed:

"THAT the 2018 Budget of Grand River Conservation Authority of \$34,347,987 be approved;

AND THAT the member municipalities be assessed for payment of:

Matching Levy: \$871,073 Non-Matching Levy: \$9,430,927 Capital Levy: \$1,050,000 Total General Levy: \$11,352,000

AND THAT each member municipality's share of the 2018 General Levy be calculated using "Modified Current Value Assessment"."

The 2018 general levy will not include an adjustment for the City of Hamilton, which has been the practice in prior years. This change in levy apportionment is due to an order issued December 21, 2017 by the Mining and Lands Commissioner.

The impact of not making an adjustment for Hamilton is that Hamilton's share of the total levy increases from 2.4% to 12.6% and the amount apportioned to all other participating municipalities has decreased by a proportional amount.

The first draft of the budget was presented to the board at the General Meeting held September 23, 2017 and included the "Summary of Municipal Levy – Budget 2018" based on 'modified current value assessment, with an adjustment for Hamilton". This board report is available on-line or may be requested.

The City of Hamilton has advised GRCA that they have applied for a Judicial Review of the Mining and Lands Commissioner's decision. At this point, it is not possible to predict whether that request will be granted and if there is potential for adjustments to the 2018 levy apportionment at a later date. In the event of a subsequent adjustment, we will advise you of the revised apportionment as applicable. A number of members of our Board of Directors have suggested that participating municipalities may want to consider setting funds aside based on the original levy apportionment calculation as outlined in the budget report referenced above.

Attached are a summary of the 2018 municipal levies, and the complete 2018 budget package. A hard copy of the 2018 budget package or a printable PDF is available upon request.

Please contact <u>Karen Armstrong</u>, Deputy CAO & Secretary Treasurer, or <u>Sonia Radoia</u>, Manager of Corporate Services, if you have any questions.

On behalf of, Karen Armstrong Deputy CAO & Secretary-Treasurer

Kind regards,

Eowyn Spencer | Executive Assistant | Grand River Conservation Authority www.grandriver.ca | Phone: 519-621-2763 x.2200 | espencer@grandriver.ca

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To: dholmes@melanethontownship.ca From: espencer@grandriver.ca Message Score: 57 My Spam Blocking Level: High

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This message was delivered because the content filter score did not exceed your filter level.

Grand River Conservation Authority Summary of Municipal Levy - 2018 Budget

					2018 Budget Matching	2018 Budget Non Matching				
	ar (2374) -			CVA-Based	Admin &	Admin &	0040 0			
	% CVA in Watershed	2017 CVA Modified	CVA in Watershed	Apportionment	Maintenance Levy	Maintenance Levy	2018 Budget Capital Levy	2018 Budget Total Levy	Actual 2017 Levy	% Change
Brant County	84.0%	5,778,502,491	4,853,942,092	2.88%	25,085	271,586	30,233	326,904	354,137	-7.7%
Brantford C	100.0%	12,178,149,735	12,178,149,735	7.22%	62,933	681,380	75,862	820,175	897,489	-8.6%
Amaranth Twp	82.0%	651,361,270	534,116,241	0.32%	2,760	29,884	3,327	35,971	39,009	-7.8%
East Garafraxa Twp	80.0%	498,143,467	398,514,773	0.24%	2,059	22,297	2,482	26,838	29,452	-8.9%
Town of Grand Valley	100.0%	396,850,584	396,850,584	0.24%	2,051	22,204	2,472	26,727	27,291	-2.1%
Melancthon Twp	56.0%	481,524,449	269,653,692	0.16%	1,393	15,087	1,680	18,160	19,694	-7.8%
Southgate Twp	6.0%	815,068,745	48,904,125	0.03%	253	2,736	305	3,294	3,620	-9.0%
Haldimand County	41.0%	5,888,880,157	2,414,440,864	1.43%	12,477	135,090	15,040	162,607	183,117	-11.2%
Norfolk County	5.0%	8,186,035,325	409,301,766	0.24%	2,115	22,901	2,550	27,566	30,831	-10.6%
Halton Region	10.3%	36,402,339,213	3,765,423,823	2,23%	19,459	210,679	23,456	253,594	271,150	-6.5%
Hamilton City	26.8%	77,135,348,277	20,633,705,664	12.24%	106,629	1,154,477	128,534	1,389,640	263,512	427.4%
Oxford County	37.7%	3,548,847,438	1,337,821,840	0.79%	6,913	74,852	8,334	90,099	99,302	-9.3%
North Perth T	2.0%	1,770,295,097	35,405,902	0.02%	183	1,981	221	2,385	2,563	-6.9%
Perth East Twp	40.0%	1,600,912,173	640,364,869	0.38%	3,309	35,829	3,989	43,127	45,952	-6,1%
Waterloo Region	100.0%	86,368,658,180	86,368,658,180	51.24%	446,327	4,832,414	538,023	5,816,764	6,314,548	-7.9%
Centre Wellington Twp	100.0%	4,246,127,695	4,246,127,695	2.52%	21,943	237,575	26,451	285,969	312,036	-8.4%
Erin T	49.0%	2,223,001,923	1,089,270,942	0.65%	5,629	60,946	6,785	73,360	81,701	-10.2%
Guelph C	100.0%	22,830,352,868	22,830,352,868	13.54%	117,980	1,277,382	142,218	1,537,580	1,646,748	-6.6%
Guelph Eramosa Twp	100.0%	2,374,434,372	2,374,434,372	1.41%	12,270	132,852	14,791	159,913	175,520	-8.9%
Mapleton Twp	95.0%	1,408,733,893	1,338,297,198	0.79%	6,916	74,879	8,337	90,132	95,992	-6.1%
Wellington North Twp	51.0%	1,432,770,017	730,712,708	0.43%	3,776	40,884	4,552	49,212	53,415	-7.9%
Puslinch Twp	75.0%	2,216,998,019	1,662,748,514	0.99%	8,593	93,032	10,358	111,983	127,922	-12.5%
Total		278,433,335,387	168,557,198,449	100.00%	871,053	9,430,947	1,050,000	11,352,000	11,075,000	2.5%

Denise Holmes

From:	Michele Harris <michele@headwaters.ca></michele@headwaters.ca>		
Sent:	Thursday, March 01, 2018 4:29 PM		
То:	Carey deGorter (Carey.degorter@caledon.ca); Denise Holmes; Dina Lundy - Town of Er (); Jane Wilson (jwilson@townofgrandvalley.ca); Jennifer Willoughby		
	(jwilloughby@shelburne.ca); Kathy Pearl (kpearl@amaranth-eastgary.ca); Kerstin		
	Shillum (kshillum@mulmurtownship.ca); Laura Hall; Mark Early		
	(mark@townofmono.com); Michelle Dunne (mdunne@dufferincounty.ca); Nathan Hyde;		
	Pam Hillock; Susan Greatrix (sgreatrix@orangeville.ca); Susan Lankheit		
	(slankheit@orangeville.ca); Susan Stone (suestone@amaranth-eastgary.ca); Terry		
	Horner (thorner@mulmurtownship.ca)		
Subject:	Headwaters Tourism - minutes & update		
Attachments:	Minutes - 07 December 2017.pdf; Minutes - 25 January 2018.pdf; 20 January 2018 - tourism update.pdf; 26 February 2018 - tourism update.pdf		

Please find attached the following documents:

- Board Minutes 07 December 2017
- Board Minutes 25 January 2018
- Tourism update 20 January 2018
- Tourism update 26 February 2018

We would appreciate it if you could share with your Council in their next information package.

Thank you so much.



Michele Harris CEO | Headwaters Tourism

M: 519-215-2771 P: 519-942-0314 x201 E: Michele@headwaters.ca

Headwaters.ca HeadwatersB2B.ca

6000

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> INFO#5 MAR 1 5 2018

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Board of Directors' Meeting 07 December 2017 – 10am to 12pm Gourmandissimo, 16023 Airport Rd, Caledon East

Meeting Minutes

Attending: John Brennan, Maria Britto, Elaine Capes, Stacey Coupland, Lisa Johnson, Ross Millar, Amanda Perricone, Adriana Roche, Alison Scheel
 Ex-officio: Michele Harris, Sonya Pritchard, Katrina Lemire, Susan Gallimore, Carol Maitland
 Regrets: Brian Besley, Sharon Martin, Rob Mezzapelli, Robyn Mulder, Laura Ryan
 Staff: Diane Murenbeeld, Stephany St. Louis, Vicki Sword
 Guests: Karisa Downey (Dufferin County EDO)

Meeting called to order at 10:25am

Welcome & introductions

Declaration of pecuniary interest: none

Motion: to approve the agenda Motioned by: Maria Britto Seconded by: Elaine Capes Outcome: carried

Motion: to approve the consent agenda items Motioned by: John Brennan Seconded by: Lisa Johnson Outcome: carried

Motion: to approve the minutes of the 26 October 2017 Board meeting Motioned by: John Brennan Seconded by: Elaine Capes Outcome: carried

Business arising from the previous minutes:

- Headwaters merchandise: merchandise (posters, magnets, pins and aprons) are being testmarketed for the Christmas season at select merchants across the region, including: Kitchen to Table, Fromage, Heatherlea, Snowberry Botanicals.
- Online merchandise/apparel is now also available at <u>www.shopheadwaters.ca</u>. This is an online Canadian platform, supported by local fulfillment company TeeParty (based in Shelburne, Ontario). Headwaters does not need to carry inventory, and items will be directly fulfilled and sent to customers by TeeParty. Headwaters can choose their level of mark-up on each item.

www.headwaters.ca | www.headwatersb2b.ca



Board of Directors' Meeting 07 December 2017 – 10am to 12pm Gourmandissimo, 16023 Airport Rd, Caledon East

2017 Ontario Tourism Summit update

- Headwaters Tourism staff (Michele Harris, Diane Murenbeeld & Stephany St. Louis), as well as Board Chair, Stacey Coupland attended this year's Summit in Niagara Falls. Executive Director, Michele Harris was a presenter at the conference, sharing the Headwaters story with over 450 conference delegates.
- Staff provided the Board of Directors with their take-aways and learnings from the Summit.
- Conference presentations were also shared with Board of Directors.

Motion: to receive the Executive Director report (to December 4th, 2017) as presented Motioned by: John Brennan Seconded by: Lisa Johnson Outcome: carried

Sector updates:

- Arts & Heritage (as per submitted report)
- Nature & Leisure (as per submitted report)
- Horse & Country:
 - Headwaters Equine Leadership group is proposing the following activities for 2018:
 - Headwaters Horse Country Awards to present one award annually, as part of the annual Headwaters Tourism Awards of Excellence
 - After 10 successful years, for 2018 the Headwaters Stable Tour will offer visitors the opportunity to tour equine facilities throughout the year. Will be asking stable owners & operators to indicate which dates they'd like to be open to the public, and an annual calendar of opportunities will be compiled & promoted.
 - Will be looking at a program for 2018 that recognizes equine barn owners who have undertaken restoration or adaption of heritage barns. Criteria and details currently being finalized; proposing a fall 2018 launch date.

Board considerations:

- Staffing: Stephany St. Louis (Headwaters Program Manager) is returning to school full-time in January 2018. She will continue with bookkeeping services for Headwaters on a part-time basis. Headwaters has posted a job for a full-time Tourism Marketing Coordinator. Over 60 applications were received. Interviews to take place before December 31st, 2017.
- Rural Tourism Symposium: Headwaters Tourism will host a provincial tourism symposium to bring together rural tourism operators and tourism organizations from across the province to discuss distinctly rural tourism matters. The full day conference will take place at the Orangeville Town Hall Opera House on Tuesday, January 16th, followed by the annual Headwaters Tourism Awards at 6:30 pm.



Board of Directors' Meeting 07 December 2017 – 10am to 12pm Gourmandissimo, 16023 Airport Rd, Caledon East

Photography & copyright issues: it was brought to our attention that there is currently an
exhibit at the Dufferin County Museum by a photographer, that has many inclusions that
mimic very closely photography contracted by Headwaters Tourism from local photographer
James MacDonald. Concerns about maintaining and protecting Headwaters brand integrity,
and protecting IP. Headwaters Tourism encourages partners who would like to exhibit our
photography to contact us directly to further expand the brand promise across the region.

Municipal Accommodation Tax (MAT) update:

Province of Ontario has passed legislation that will allow municipalities to impose a municipal
accommodation tax on short term accommodations. Tourism Industry Association of Ontario
is keeping partners advised of implications of this legislation. Headwaters Tourism will stay
abreast of this issue and will bring updates to the Headwaters Board of Directors as
appropriate.

In-camera session re stakeholder issue:

Motion to go in camera at 11:43 am Motioned by: Lisa Johnson Seconded by: Elaine Capes Outcome: carried

Motion to come out of camera at 11:59 am Motioned by: Maria Britto Seconded by: Elaine Capes Outcome: carried

Direction: For Executive Director to execute as instructed Motioned by: Elaine Capes Seconded by: Maria Britto Outcome: carried

Acknowledgements and recognition: none Notice of motions & new business: none

Motion: to adjourn at 12:02 pm Motioned by: Stacey Coupland Seconded by: Elaine Capes Outcome: carried

Next meeting:

Thursday, January 25th, 2018 – 9:00 am to 11:00 am Dufferin County offices (Sutton Room), 55 Zina Street, Orangeville

www.headwaters.ca | www.headwatersb2b.ca



Board of Directors' Meeting 25 January 2018 – 9am to 11am County of Dufferin, 55 Zina Street, Sutton Room

Meeting Minutes

Attending: John Brennan, Stacey Coupland, Lisa Johnson, Sharon Martin, Rob Mezzapelli, Ross Millar, Adriana Roche, Laura Ryan, Alison Scheel Ex-officio: Michele Harris, Katrina Lemire, Susan Gallimore, Carol Maitland, Robyn Mulder Regrets: Maria Britto, Amanda Perricone Staff: Diane Murenbeeld, Danica Cooley, Vicki Sword Absent: Elaine Capes, Sonya Pritchard Guests: Karisa Downey (Dufferin County), Bill Gillam (representing the Town of Shelburne EDC)

Meeting called to order at 9:00 am

Welcome & introductions

- Brian Besley had to resign his appointed position to the Board (representing the Town of Shelburne) due to time commitments; Bill Gillam was representing the Town of Shelburne at today's meeting.
- Also pleased to welcome Headwaters Tourism's new marketing coordinator: Danica Cooley

Declaration of pecuniary interest: none

Motion: to approve the agenda Motioned by: John Brennan Seconded by: Adriana Roche Outcome: carried

Motion: to approve the consent agenda items Motioned by: Sharon Martin Seconded by: John Brennan Outcome: carried

Motion: to approve the minutes of the 07 December 2017 Board meeting Motioned by: Alison Scheel Seconded by: Lisa Johnson Outcome: carried

Business arising from the previous minutes:

None



Board of Directors' Meeting 25 January 2018 – 9am to 11am County of Dufferin, 55 Zina Street, Sutton Room

Motion: to receive the Executive Director report (to January 20th, 2018) as presented Motioned by: John Brennan Seconded by: Laura Ryan Outcome: carried

Sector updates:

• Arts & Heritage (as per submitted report)

Board considerations:

- 2018/19 strategic priorities (open discussion)
 - Headwaters Tourism staff will be bringing forth recommendations for 2018/19 at the next Board meeting.

Municipal Accommodation Tax (MAT) update:

• No update at this time.

In-camera session re stakeholder issue:

Motion to go in camera at 10:25 am Motioned by: Laura Ryan Seconded by: Rob Mezzapelli Outcome: carried

Motion to come out of camera at 10:39 am Motioned by: Laura Ryan Seconded by: Rob Mezzapelli Outcome: carried

Direction: For Executive Director to execute as instructed Motioned by: Laura Ryan Seconded by: John Brennan Outcome: carried



Board of Directors' Meeting 25 January 2018 – 9am to 11am County of Dufferin, 55 Zina Street, Sutton Room

Staffing discussion:

In keeping with other comparable tourism agencies across the province, and to ensure that Headwaters Tourism is looked upon as a comparable peer with other similar tourism organizations, it is recommended that the title of the Executive Director be changed to Chief Executive Officer. This would simply be a title change, with no salary or job change implications resulting from the title change.

Motion: Effective immediately, Michele Harris' title to change from Executive Director to Chief Executive Officer.

Motioned by: Laura Ryan Seconded by: Sharon Martin Outcome: carried

Acknowledgements and recognition: none Notice of motions & new business: none

Motion: to adjourn at 12:02 pm Motioned by: Stacey Coupland Seconded by: Sharon Martin Outcome: carried

Next meeting:

Thursday, March 1st, 2018 – 9:00 am to 11:00 am Dufferin County offices (Sutton Room), 55 Zina Street, Orangeville



Headwaters Tourism - public profile & sector engagement

- Hosted Headwaters Tourism Awards on the evening of Tuesday, January 16th. The evening was sponsored by Shelburne Home Hardware Building Centre, and <u>featured 66 nominees</u> in 10 categories. The evening followed the first provincial Rural Tourism Symposium, and a cocktail reception (sponsored by Gourmandissimo Fine Food + Catering). It was truly a celebratory evening complete with laughter, song and tears! A good time was had by all. Winners were as follows:
 - Best ARTS & HERITAGE Visitor Experience (sponsored by the <u>Town of Orangeville</u>) Dragonfly Arts on Broadway, Orangeville
 - Best FRESH & LOCAL Visitor Experience (sponsored by the <u>Town of Erin</u>)
 Snowberry Botanicals, Erin
 - Best FUN & FESTIVE Visitor Experience (tie)
 Caribfest (Soulyve), Orangeville & Mud Hero Toronto North, Caledon
 - Best NATURE & LEISURE Visitor Experience
 Seven Bridges Run (Orangeville Lions Club), Orangeville
 - Best HORSE & COUNTRY Visitor Experience (sponsored by the <u>Town of Shelburne</u>) Grand River RAM Rodeo, Grand Valley
 - Best SEE, SHOP & STAY Visitor Experience (tie) (sponsored by <u>BDO Canada LLP</u>) Millcroft Inn & Spa, Caledon & Wicked Shortbread, Orangeville
 - Best NEW Tourism Business (sponsored by <u>Humber College</u>) Alabaster Acres, Caledon
 - Tourism INNOVATOR of the Year (sponsored by <u>County of Dufferin</u>)
 Credit Valley Conservation (Island Lake Amphitheatre), Mono
 - Tourism PARTNERSHIP Award (sponsored by the Dufferin Board of Trade)
 Lavender Blue Catering, Mono
 - Tourism CHAMPION of the Year (sponsored by <u>Shelburne Home Hardware Building Centre</u>) Philip DeWar (Soulyve), Orangeville

Municipal economic development integration:

 Participated in Town of Caledon tourism stakeholder session on December 12th; provided update on the role of Headwaters Tourism is supporting, complementing and enhance the Town's tourism strategy; very strong receptivity among tourism operators on impact of Headwaters Tourism as a key partner with the Town in developing tourism.



Tourism industry sector liaison:

- Hosted first provincial Rural Tourism Symposium on Tuesday, January 16th. 125 registered delegates came from across the province to explore ways to work collaboratively with municipal, provincial and federal tourism agencies to raise the profile of rural tourism. Day included speakers from Destination Canada, Destination Ontario, Tourism Industry Association of Ontario, RTO representatives, DMOs and rural tourism business operators. Tremendous feedback. Will be working with colleagues to develop a loose network of rural tourism destinations to develop further opportunities for collaboration and development. Peterborough & the Kawarthas will be hosting the second annual Rural Tourism Symposium on April 11th, 2019. Full details available at <u>RuralTourism.biz</u>
- See media release (below)

Product development – Arts & Heritage

See below

Product development – Fresh & Local

Soliciting participants for Taste of Maple which will take place from March 8th through April 7th, 2018. Registration deadline: February 9th, 2018. <u>Click here for registration details.</u>

Product development – Headwaters Electric Tourism Highway

 Have had meetings with the Town of Orangeville, Grand Valley and the County of Dufferin regarding Tesla destination charging programs. Each municipal partner will coordinate directly with Tesla if they are interested in taking advantage of program incentives. Will continue to meet with other partners over the next few months to gauge interest in the program.

Administration:

- Danica Cooley has joined the Headwaters Tourism team in a full-time capacity as Marketing Coordinator (effective January 4th, 2018). Danica will be responsible for coordinating all marketing programs, will be the prime contact for all Leading With the Best coordinators, and will assist Marketing Manager with digital marketing undertakings.
- Will be applying to Canada Summer Jobs program for three positions this summer: photographer, videographer & multi-media assistant (deadline for submissions: Feb 2/18).

Marketing:

• 2018 Visitor Guide sales close on February 12th, 2018. Sales are down significantly from prior year sales. Given that this program is fully supported by advertising revenues, a full review of the publication (size & design) will be done in order to ensure a break-even position.



Media coverage:











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ORANGEVILLE CITIZEN

General News

Headwaters Tourism hosts annual awards ceremony



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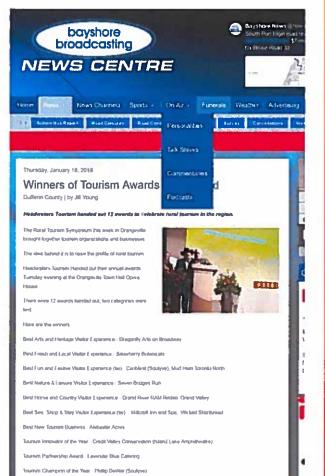
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News

Learn How to Add Your Business to Ontariotravel net & Rural Tourism Symposium

05/12/17

They great tourism events to support your business feetured in the latest visitgrey newsletter.

Control Control ----



Headwaters Tourism, in partnership with Peterborough and the Kawarthas nism, invites rural tourism stakeholders, destination marketing organizations and touram businesses to join us for our first Rural Tourism Symposium: Where Tourism Gets Real.



This collaborative undertailing, supported by Grey County Tourism, the Nuncopality of Onetham-Kenc, and the Town of Orangeville, is a one-day event designed to raise the profile all rural tourism as an integral part of the provinceal and national visitor experience, and will include context specifically targetted to a the nural tourism industry.

This symposium will inspire tourism operators to develop Ontario and Canadian signature experiences that align with our provincial and national tourism pertners; and will feature keynote speaker Lisa Lavocchia from Destination Distanto, as well as speakers from Destination Canada and other rural tourism destinations across the province.

Discover best practices in rural tourism, be inspired by rural tourism leaders, and help us give a voice to the importance of rural destinations in showcasing the best of Ontano and Canada.

Taking place at Orangeville's Town Hall Opera House on Tuesday, January 16th, 2018, the agenda will include:

- Keynote presentation from Liss Laveochia, President & CEO of Destination Ontano
- Presentations from Destination Canada
- Fanel discussions with rural tourism business leaders
 Moderated forums with local, provincial and national tourism leaders delying into some of the issues specifically encountered by rural tourism businesses and destinations
- Retworking opportunities with rural tourism stakeholders from acress the province
- . And of course some of the best food, beverage & hospitality provided by Headwaters region purveyors

REGISTER HOW

Partnership opportunities now available: Rural Tourism Symposium rtunties



Municipal updates:

Town of Orangeville:

EVENT NAME	DESCRIPTION	DATES
Winter Market	Seasonal goods and produce offered by local vendors inside Orangeville Town Hall.	Every second Saturday until April 21
Trudeau Stories presented by Theatre Orangeville	A personal story about a young student's unlikely friendship with Pierre Elliot Trudeau.	On stage at the Orangeville Town Hall Opera House from February 15 to March 4
The Big Easy Blues Bash	Annual fundraising event for the Orangeville Blues & Jazz Festival	Saturday, February 17
Small Business Workshops	The Orangeville & Area Small Business Enterprise Centre offers workshops for small businesses. Many of the topics – Customer Service, Website Content, and Bookkeeping Basics – may be relevant for tourism operators. The workshops are open to businesses located in Dufferin County. Fees may apply.	Various dates throughout Winter/Spring 2018

INITIATIVE	DESCRIPTION
Utility Box Art Display Program	This popular program will be expanded again in 2018. The Call for Artists is expected to be announced in February.
Mill Creek Signage	Signs have been installed to help identify the significance of Mill Creek to Orangeville's history and culture. An additional three signs are expected to be installed in Spring 2018.
Poetry Festival	A proposal for a Poetry Festival to be held in May in downtown Orangeville has been presented to the Town's Arts & Culture Committee. The event is still in planning stages.
Cultural Plan Update	Orangeville's Cultural Advantage was launched in March 2014. An update of this Cultural Plan, including the Town's progress towards its objectives, will take place in 2018.
Economic Development Strategy	An update to the Town's Economic Development Strategy is underway and is expected to be presented to Council in the first quarter of 2018.





Town of Caledon:

EVENT NAME	DESCRIPTION	DATES
Fire & Ice Festival	Alton Mill's winter festival featuring ice carvings, bonfire, Hockey Classis, skating, local food and arts activities	Jan 20-21
Cider Master's dinner	Spirit Tree's winter cider master's dinner featuring a four course meal and cider pairings	Feb 10
Terra Cotta Family Day fun	Festival at Terra Cotta Conservation Area	Feb 19
Wassailing Festival	Spirit Tree's Wassailing Festival, outdoor activities; learn about the art of wassailing.	Feb 19
Family Day Fun at Teen Ranch	Winter fun activities at Teen Ranch	Feb 19

Town of Shelburne:

EVENT NAME	DESCRIPTION	DATES		
Shelbrrr Fest	Family Day winter festival	Feb. 19th		
·				
INITIATIVE	DESCRIPTION			
SBEC Shelburne Location open	Every Tuesday afternoon between 1 and 4:30 p.m.			





Headwaters Inspired - Arts and Culture Framework

Project Update – January 2018

Project Status:

- Asset database We are in the process of completing the final clean-up of the database to be uploaded into the website. The clean-up includes final categorization of the assets.
- Headwaters Cultural Roundtable
 - We have received and responded to several requests for clarification and suggestions from members of the Headwaters Cultural Roundtable regarding the project.
 - The HCR have asked us to attend their next meeting to further clarify project details. We
 declined the invitation as we do not have further information to provide beyond the written
 project overviews, written project updates, phone & in-person meetings and clarification
 emails already provided. We will continue to provide our written monthly updates regarding
 the project status.
 - On November 14th, the HCR committed to expressing their support for the project within the arts community and to ask for profile updates from the various arts groups in the area. We have not seen any expressions of support or requests for participation at this time. Though it would be nice to have the HCR advocate for their members and groups to add themselves to the database, we are moving forward with the significant data we have already collected and continue to collect to complete the project by May.
- The team at Touchwood Design have provided a first round of design ideas and colour pallets for the website. We are now asking to have those ideas translated into a distinct look and feel for the website.
- The second quarterly report for RED funding is due this month. It includes details of our activities from October 1-December 31, 2017.

Background:

Understanding the impact of arts and culture on our community, Dufferin County, the Town of Caledon and the Town of Erin are funding a project to develop an Arts and Culture framework in Headwaters. The project will be managed and executed by Headwaters Tourism, following much of the same format as their award-winning work in equine sector development

The scope of work for the project includes:

- Create a web-based industry portal and content management website to serve as the "hub" for all sector related undertakings, including a comprehensive database of:
 - o Arts & culture assets (including events) in Headwaters
 - o Industry resources (regional, provincial & national)



- Develop and launch an industry communications strategy to engage stakeholders and encourage collaboration and knowledge transfer
- Compile arts & culture sector data and reports to create an economic impact summary for sector business case development

Timeline:

- August 2017: Project start
- August-December 2017: Information gathering/validation & portal structural development
- January-April 2018: Data input, design/flow & integration
- May 2018: Arts & Culture portal launch





For Immediate release – Mono, ON 23 January 2018

246372 Hockley Road, Mono, ON, L9W EK4 519 942 0314 - Tolf Free: 800 332 9744 headwaters.ca

Tourism leaders from across the province gather for first Rural Tourism Symposium

On Tuesday, January 16th, tourism and business leaders from across the province of Ontario gathered at the Orangeville Town Hall Opera House for the first provincial Rural Tourism Symposium.

Spearheaded by Headwaters Tourism, in partnership with Peterborough & the Kawarthas, this collaborative undertaking was supported by Grey County Tourism, the Municipality of Chatham-Kent, the Town of Orangeville, QuinteVation, Tourism Simcoe Country, the City of Orillia and Société Économique de L'Ontario.

Close to 150 delegates from all across Ontario came together to raise the profile of rural tourism as an integral part of the provincial and national visitor experience. Delegates discovered best practices in rural tourism, were inspired by rural tourism leaders and helped give a voice to the importance of rural destinations in showcasing the best of Ontario and Canada to national and international visitors.

Along with keynote speaker Lisa LaVecchia, President & CEO of Destination Ontario, delegates had the opportunity to hear from David Robinson, Vice-President of Destination Canada and Beth Potter, President & CEO of the Tourism Industry Association of Canada and discuss how rural tourism in Ontario can align and support provincial and national tourism strategies.

The Orangeville Town Hall Opera House was the perfect venue for networking and conversation, and the taste of place provided by local Headwaters food & drink purveyors enhanced the "real" ambience of the day and supported meaningful dialogue and collaboration.

It was clear that rural tourism matters in this province, and that tourism operators and leaders are anxious to work collaboratively to raise the profile of rural tourism in the provincial and federal framework.

As a result of this first Rural Tourism Symposium, industry leaders have agreed to build on the momentum and create initiatives that support collaborative rural tourism development. Peterborough & the Kawarthas will host the second annual Rural Tourism Symposium on April 11th, 2019 and in the meantime, an alliance of key players from Ontario municipalities and destination marketing organizations was formed to collaborate on a framework for ongoing development through quarterly engagement sessions.

Headwaters Tourism continues to recognize the power of partnership and collaboration and was honoured to spearhead the first Rural Tourism Symposium. With the support of the Headwaters Board of Directors, Headwaters Tourism will continue to be a leader in rural tourism development and find innovative ways to grow tourism in support of robust rural economies.

For further information about rural tourism in Ontario, visit <u>www.ruraltourism.biz</u> #ruraltourismmatters





Headwaters Tourism - public profile & sector engagement

 On Wednesday, February 7th, 2018, at the <u>Economic Developers' Council of Ontario</u> Awards of Excellence in Toronto, Headwaters Tourism was once again recognized for exceptional work in marketing. For the third consecutive year, the <u>Headwaters Four-Season Visitors' Guide</u> has been recognized as the best publication in the province.

Tourism industry sector liaison:

- Participated in 2018 TIAO Tourism Issues Forum. Key topics of discussion included:
 - Opening remarks from new Minister of Tourism, Culture & Sport, the Honourable Daiene Vernile (MPP Kitchener Centre.
 - o The New Municipal Tax Bill
 - o Understanding Bill 148: Beyond the Minimum Wage Increase
 - o Red Tape Challenge
 - Election 2018 including key messaging for 2018 provincial & municipal elections
- Delivered full day marketing training workshop to middle-level managers from across the GTHA as part of the Greater Toronto Hotel Association's Leadership Training Program
- Continue to serve as Secretary on the Board of Directors of the Culinary Tourism Alliance.

Product development – Arts & Heritage

See update below

Product development – Horse & Country

• See update below re EQUUS Canada Film Festival | Headwaters

Product development – Fresh & Local

- Taste of Maple which will take place from March 8th through April 7th, 2018.
- 25 participating Headwaters locations taking part in 2018.
- <u>www.tasteofmaple.ca</u>

Product development – Headwaters Electric Tourism Highway

 Town of Caledon's Manager of Energy & the Environment is working with the Region of Peel's Data Centre to develop an EV map. Recommending that sites for consideration in their gap analysis should include tourist destinations. Our Headwaters Tourism EV strategy has been shared with the team to encourage future partnership and integration of tourism sites into their plan.

Administration:

- Applications have been submitted to the Canada Summer Jobs program for four (4) summer student positions: photographer; videographer; multi-media assistant; database administrator - (4 positions @ 35 hours/week x 16 weeks).
- Summer projects will be contingent on summer student funding.



Digital/Social Media

Digital engagement statistics: November 1st to 30th, 2017

	Sessions	Page Views	Reach	Impressions	Total audience	Open rate	Growth rate
www.headwaters.ca www.headwatersb2b.ca www.headwatershorsecountry.ca	9,590	25,001	n/a	n/a	n/a	n/a	n/a
Facebook	n/a	n/a	9,012	27,300	1,291	n/a	0.7%
Twitter	n/a	n/a	123,000	n/a	5,179	n/a	0.66%
Constant Contact	n/a	n/a	n/a	n/a	9,394	62%	1.34%
Instagram	n/a	n/a	n/a	n/a	674	n/a	13.2%
YouTube	1,750	n/a	n/a	n/a	n/a	n/a	-24.28%

Digital engagement statistics: December 1st to 31st, 2017

	Sessions	Page Views	Reach	Impressions	Total audience	Open rate	Growth rate
www.headwaters.ca www.headwatersb2b.ca www.headwatershorsecountry.ca	8,588	21,365	n/a	n/a	n/a	n/a	n/a
Facebook	n/a	n/a	5,195	12,799	1,299	n/a	0.62%
Twitter	n/a	n/a	103,370	n/a	5,206	n/a	0.52%
Constant Contact	n/a	n/a	n/a	n/a	9,411	52%	0.18%
Instagram	n/a	n/a	n/a	n/a	778	n/a	15.43%
YouTube	3,557	n/a	n/a	n/a	n/a	n/a	94%

Digital engagement statistics: January 1st to 31st, 2018

	Sessions	Page Views	Reach	Impressions	Total audience	Open rate	Growth rate
www.headwaters.ca www.headwatersb2b.ca www.headwatershorsecountry.ca	12,609	31,867	n/a	n/a	n/a	n/a	n/a
Facebook	n/a	n/a	9,231	22,000	1,333	n/a	2.62%
Twitter	n/a	n/a	212,524	n/a	5,217	n/a	0.21%
Constant Contact	n/a	n/a	n/a	n/a	9,459	49%	0.89%
Instagram	n/a	n/a	n/a	n/a		n/a	
YouTube	112,185	n/a	n/a	n/a	n/a	n/a	3054%



Media coverage:



TIAO Member of the Month: Headwaters Tourism Enfitteren inter therei there a

Analyzing and all a surveines and alwards to always only the second seco January Member of the Month: Headwaters Tourism

This month we chatted with Michele Harris, CEO of Headwaters Tourism

Who are you and what do you do? Tel us about your organization and its role within Ontario's tourism industry.



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you to Michele and the Headwaters team for being our first TIAO Member of the Month Tourism amily

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Municipal updates:

Town of Orangeville:

EVENT NAME	DESCRIPTION	DATES
Winter Market	Seasonal goods and produce offered by local vendors inside Orangeville Town Hall.	Every second Saturday until April 21
Trudeau Stories presented by Theatre Orangeville	A personal story about a young student's unlikely friendship with Pierre Elliot Trudeau.	On stage at the Orangeville Town Hall Opera House until March 4
Sugarbush Maple Syrup Festival at Island Lake Conservation Area	Live entertainment, demonstrations, face painting, wagon rides, axe throwing and, of course, real maple syrup and pancakes.	March 16, 17, 24
Small Business Workshops	The Orangeville & Area Small Business Enterprise Centre offers workshops for small businesses. Many of the topics –Website Content and Bookkeeping Basics – may be relevant for tourism operators. The workshops are open to businesses located in Dufferin County. Fees may apply.	Various dates throughout Winter/Spring 2018
Creativity under pressure: Inspiration for artists and entrepreneurs	A lunch and learn featuring a keynote presentation by successful actress, entrepreneur and producer Mag Ruffman.	Wednesday, April 25

INITIATIVE	DESCRIPTION
Utility Box Art Display Program	This popular program will be expanded again in 2018. The Call for Artists is expected to be announced in March.
Mill Creek Signage	Signs have been installed to help identify the significance of Mill Creek to Orangeville's history and culture. An additional three signs are expected to be installed in Spring 2018.
Poetry Festival	A proposal for a Poetry Festival to be held in May in downtown Orangeville has been presented to the Town's Arts & Culture Committee. The event is still in planning stages.
Cultural Plan Update	Orangeville's Cultural Advantage was launched in March 2014. An update of this Cultural Plan, including the Town's progress towards its objectives, will take place in 2018.
Economic Development Strategy	An update to the Town's Economic Development Strategy is underway and is expected to be presented to Council in the first quarter of 2018.



Town of Caledon:

EVENT NAME	DESCRIPTION	DATES
Moonlight Guided Snowshoe	At Albion Hills, guided night time snowshoe	March 3
Oscar Night Soundtrack Celebration	Caledon Concert Band plays famous movie soundtrack melodies	March 4
Princess Warrior Retreat	Yoga focused retreat with other adventures and activities	March 9-11
Maple Syrup Festival	Terra Cotta Conservation Area hosts a maple syrup festival with demonstrations, entertainment and activities	March 10-18, 24-25
Day Camp at Teen Ranch	Activities, pony rides, crafts and meals – day camp at Teen Ranch	March 12-16
Take a Hike	Guided walk through the woods Albion Hills Field Centre	March 16
Swing Dance	A comedy performed by the Blackhorse Players	March 21-25, April 6-8, April 13- 15
KABA Kamp for Adults	Forks of the Credit hosts a 3-day, 2-night adventure	March 23-25, April 6-8
EasterFest	Downey's farm hosts Easterfest – animals, entertainment and Easter activities.	March 24-25, March 30-April 1

INITIATIVE	DESCRIPTION
Application to the Bicycle Friendly	To recognize the achievement to date on promoting cycling to all users
Community	(tourists included) in Caledon, staff is working on the submission of the
	Bicycle Friendly Community (BFC) to the Share The Road Cycling
	Coalition. The BFC designation is a way to celebrate Ontario's
	municipalities on their efforts in encouraging cycling for commuting and
	recreational purposes.



Town of Erin:

EVENT NAME	DESCRIPTION	DATES
Upside-Down Sale	Downtown BIA sale and "Pot of	March 17-18
	Gold" promotion throughout the	
	downtown.	

INITIATIVE	DESCRIPTION
SWIFT survey	Looking into High Speed internet for the Town of Erin. We are asking all
	residents and businesses to help us fill in the gaps.
Riverwalk Phase 1	Almost complete, look out platform will be constructed in the next
	month
Community Improvement Plan	Open House went well. Feed back was welcomed and the draft plan is
	now being done
Horse and Country magazine	This publication is to help the Town of Erin raise its Equine Sector
	profile.



Headwaters Inspired - Arts and Culture Framework

Project Update – February 2018

Background:

Understanding the impact of arts and culture on our community, Dufferin County, the Town of Caledon and the Town of Erin are funding a project to develop an Arts and Culture framework in Headwaters. The project will be managed and executed by Headwaters Tourism, following much of the same format as their award-winning work in equine sector development

The scope of work for the project includes:

- Create a web-based industry portal and content management website to serve as the "hub" for all sector related undertakings, including a comprehensive database of:
 - o Arts & culture assets (including events) in Headwaters
 - o Industry resources (regional, provincial & national)
- Develop and launch an industry communications strategy to engage stakeholders and encourage collaboration and knowledge transfer
- Compile arts & culture sector data and reports to create an economic impact summary for sector business case development

Timeline:

- August 2017: Project start
- August-December 2017: Information gathering/validation & portal structural development
- January-April 2018: Data input, design/flow & integration
- May 2018: Arts & Culture portal launch

Project Status:

 Colour pallet: We have approved the final colour pallet from Touchwood. The colors are a lively and creative representation of the arts with a structural element representative of the heritage component.



- "Faces" of Headwaters Inspired
 - We have a list of finalists for our "faces" that will be interviewed and photographed for the site. Starting the first week of March, we will confirm availability and schedule.
 - We also have a draft RFP that will go out the beginning of March for interview and article development.



• Website

- The asset database was sent to Barking Dog on February 14th to be uploaded to the website. As this is the first upload to a new site, it will take a couple weeks to complete. It is critical to ensure that the proper structure is in place and it will give us an opportunity to view the data as it will appear once public.
- o The main menu for the site has been finalized and page content is in process.
- Barking Dog will be making recommendations about using the new colour pallet and page structure to differentiate the Headwaters Inspired site from the rest of the Headwaters suite of sites.
- Headwaters Cultural Roundtable The HCR held their meeting on February 15th and discussed their role in the project. Following the meeting, they circulated the verbiage we provided to their arts groups. They asked that each group recommend that their members add their information. See text below.

The Headwaters Cultural Roundtable and ______ are pleased to support the Headwaters Inspired – Arts & Culture Project. This project includes the development of a Headwaters regional arts & culture sector database and is being developed by Headwaters Tourism in partnership with the Town of Caledon, Dufferin County and the Town of Erin.

We ask that all of our members input their information for inclusion in the database. This database of arts and culture assets will give exposure to each individual artist in our region and, when viewed as collective, will serve to raise the profile of the entire region as a destination for arts & culture.

For more information about the Headwaters Inspired – Arts & Culture Project and to input your information, please click on the following link <u>http://headwatersb2b.ca/headwaters-tourism-programs/headwaters-inspired-arts-culture-project/</u>



OVERVIEW EQUUS Canada Film Festival | Headwaters July 20th & 21st, 2018

Objectives and tactics of Equus North Film Festival

- Promote the Headwaters region as a tourism destination
- Support Headwaters tourism businesses and organizations
- Promote Headwaters region as a centre of equine excellence in the Province of Ontario
- Support, grow and advocate for this vital sector of our regional economy
- Annual event for Headwaters Horse Country
- First year "keep it simple" 2 day event
- Subsequent years bring in more art mediums (photography, literary)
- Grassroots program Community outreach Sponsorship opportunities

Equus Film Festival responsibilities:

- Set up the Film Festival programing
- Assist in planning Tour Stop
- Social Media marketing of the Tour Stop
- Create a Tour Stop poster for marketing
- Full Tour Stop page on website
- Full event and album on EFF Facebook Page
- Help set up a Tour Stop page on Facebook and co-admin for you adding daily content
- Create a commercial for the Tour Stop for marketing
- Help to encourage filmmakers, authors and artists to attend to Tour Stop

Headwaters Horse Country responsibilities:

- Venue rental
- Projection equipment
- Marketing and media outreach (with support of EFF)
- Sponsorships
- Operationalize festival

Pre-Festival Marketing Opportunity - Unbridled - Canadian Premier

- Feature film "Unbridled" starring Eric Roberts
- National release Thursday, April 26, 2018
- Canadian Premiere at Galaxy Cinemas Orangeville, Ontario
- "Dreamer" and Lindsey Partridge to attend opening
- \$500 estimated to lock in theatre (TBC)
- The film would be running through the following week for fundraising 50/50 split with the producers

Denise Holmes

From: Sent: To: Subject: Ontario Good Roads Association <DoNotReply@ConnectedCommunity.org> Friday, March 02, 2018 10:58 AM dholmes@melancthontownship.ca OGRA Heads-Up Alert - Ontario Good Roads Association Appoints 2018-2019 Board of Directors

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Ontario Good Roads Association Elects 2018-2019 Board of Directors

On February 28th, **Chris Traini**, County Engineer for the County of Middlesex, was elected President of the Ontario Good Roads Association.

In his speech to the membership, Chris highlighted several objectives as the 2018-2019 OGRA President, which include building new relationships with Associations and fostering current partnerships. Supporting OGRA Member Services and promoting the value of Municipal DataWorks, The Winter Web App and The Road Authority. Chris is committed to continuing our advocacy efforts and being the voice of municipalities with both re-elected and newly elected MPPs. And finally, build on the strong roster of volunteers OGRA works with to provide a robust education and training program.

EXECUTIVE COMMITTEE

Rick Kester, CAO, City of Belleville, 1st Vice-President Rick Harms, Project Engineer, City of Thunder Bay, 2nd Vice-President Dave Burton, Mayor, Municipality of Highlands East, 3rd Vice-President Ken Lauppé, Immediate Past President, Senior Manager, Road Operations, City of Brampton Public Works & Engineering

DIRECTORS

- Paul Ainslie, Councillor, City of Toronto
- Antoine Boucher, Director of Public Works & Engineering, Municipality of East Ferris
- Andy Bruziewicz, Councillor, City of Sarnia

- Matthew Green, Councillor, City of Hamilton
- Yolaine Kirlew, Councillor, Municipality of Sioux Lookout
- Steven Kodama, Director, Transportation Services, City of Toronto
- Bryan Lewis, Councillor, Town of Halton Hills
- Virginia Ridley, Councillor, City of London
- Paul Schoppmann, Mayor, Municipality of St.-Charles
- Michael Touw, Manager of Operations, County of Peterborough

Join the conversation about this *Heads Up Alert* at <u>the OGRA</u> <u>Interchange</u>

The mandate of the Ontario Good Roads Association is to represent the transportation and public works interests of municipalities through advocacy, consultation, training and the delivery of identified services.



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Public Notice

Dated at the County of Grey this 28th day of February, 2018

Recolour Grey Public Meeting

Grey County has drafted a new Official Plan and is holding one last public meeting to collect feedback.

RECEIVED

MAR 2 - 2013



Tuesday, March 27, 2018 6:30 P.M. Grey County Administration Building (Council Chambers) 595 9th Ave. East, Owen Sound

What is the purpose and impact of an Official Plan?

An official plan is an important land use planning document that helps Grey County manage our land and resources. It is a forward looking plan that sets goals and policies about how Grey County should grow and develop over the next 20 years. Over the past two years, Grey County has been working with the community to update and replace the current official plan.

What is Recolour Grey?

Recolour Grey is the name of Grey County's review of the County Official Plan. Recolour Grey challenges everyone to think 20 years into their future and envision the County the way they want to see it. Recolour Grey will result in a new County Official Plan under Section 17 of the Planning Act, R.S.O. 1990, as amended.

The County Official Plan sets goals related to development, communities and our natural resources. This plan divides the county into different land uses (agricultural, wetland, urban etc.) and sets policies for each designation. The Official Plan is active for 20 years and is revised every few years to ensure it is effective and relevant.

The success of Recolour Grey relies on meaningful public input and everyone can contribute. It doesn't matter if you are young or old, a resident of Grey or a visitor. We want your input to help us preserve what matters most and to grow opportunities for the next 20 years.

What is the effect of the Official Plan? How can it benefit or impact your property? Land use planning affects almost every area of life. It helps decide where our communities, homes, businesses and factories should be built; where parks and schools should be located; and where roads, sewers and other essential services should be installed.

The changes to the Official Plan may result in benefits to your property. The range of permitted uses in an official plan may allow for more than what is currently on a property. For example, the Recolour Grey draft policies would allow for more on-farm businesses than are currently permitted.

The official plan also maps environmental features and hazard lands for protection. Sometimes the location of these features on your property may limit what you can do with your land, including where buildings can be built. In other cases, it may trigger the need for further environmental study at the landowners expense. Through Recolour Grey the County is proposing new environmental features, including cores, linkages, and significant valleylands.

You may wish to check the mapping to see if any of these features are located on or near your property.

Recolour Grey Interactive Map

Want to compare the land use types and mapping between the current Official Plan and the proposed Official Plan? Want to see if or how your property is impacted? We've developed an interactive map for Recolour Grey. Zoom right into your property and see the different schedules and appendices. Visit <u>www.grey.ca/recolourgrey</u> to find a link to the Recolour Grey Interactive Mapping.

*Please note these maps have a lot of detail and take some time to load. If you are having difficulties, please contact us at <u>recolour@grey.ca</u>.

What to expect at the meeting

County staff will highlight key changes of the proposed Official Plan, including suggested revisions we've already received from the public. After the presentation there will be a formal public question and comment period. If you wish to present at the public meeting in respect of the proposed Official Plan, please let us know by sending us an email or writing to us at the addresses noted below by 4:30pm on March 26, 2018.

Find a copy of the draft Official Plan online

A copy of the proposed Official Plan and additional background information can be found on Grey County's website at <u>www.grey.ca/recolourgrey</u>. A hard copy can also be viewed at the Grey County Administration (address below) during regular business hours. A key map has not been provided because the Official Plan covers the entire county. If you can't attend the meeting you can also send your comments by email or mail to the Grey County Planning Department at the address listed below.

If a person or public body does not make oral submissions at a public meeting or make written submissions to the County of Grey before the proposed Official Plan is adopted, the person or public body is not entitled to appeal the decision of the Minister to the Ontario Municipal Board/Local Planning Appeal Tribunal if the decision can be appealed.**

If a person or public body does not make oral submissions at a public meeting or make written submissions to the County of Grey before the proposed Official Plan is adopted, the person or public body may not be added as a party to the hearing of an appeal before the Ontario Municipal Board/Local Planning Appeal Tribunal unless, in the opinion of the Board/Tribunal, there are reasonable grounds to add the person or public body as a party.**

**Please note that changes to the Planning Act and the appeal process come into effect April 3, 2018. Based on the changes to the appeal process it is very likely that the Province's decision on the Official Plan will not be appealable.

If you wish to be notified of the decision of the County of Grey on the proposed Official Plan, you must make a written request to the County of Grey at the address listed below. Following Council's adoption of the Official Plan it will then be sent on to the Province for their review and approval.

Grey County 595 9th Avenue East Owen Sound, ON N4K 3E3 <u>recolour@grey.ca</u> <u>www.grey.ca/recolourgrey</u> Phone: 519-372-0219 x 1232 Fax: 519-376-7970



February 27, 2018

Via: Mail

Denise Holmes, A.M.C.T. CAO/Clerk Township of Melancthon 157101 Highway 10 Melancthon, ON L9V 2E6

Dear Denise:

Re: Petition for Drainage Works E. Pt. Lot 1, Concession 4 OS (Leo and Alice Blydorp) File No.: D-ME-160 Project No.: 300042367.0000

We acknowledge with thanks the appointment to prepare a report on the above. In compliance with Section 8 (2) of the Drainage Act and as directed in Councils resolution, please be advised that Tom Pridham, P.Eng., the undersigned will be the Engineer in charge of the project.

We plan to hold the required site meeting in the spring in conjunction with other activities in the area. In the meantime, we will discuss the outlet requirements with the petitioners and review any tile drainage plans that may be available.

Should you have any questions or if we can be of any further assistance in the meantime, please call.

Yours truly,

R.J. Burnside & Associates Limited

T.M. Pridham, P.Eng. Drainage Engineer TMP:kl

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NFO#8 MAR 1 5 2018



NVCA Board Meeting Highlights February 23, 2018

Next Board Meeting & Annual General Meeting: April 27, 2018 at Tiffin Centre for Conservation, Utopia

For the full meeting agenda including documents and reports, visit nvca.on.ca/about/boardofdirectors

Plans for properties in Springwater and emergencies at the Nottawasaga Bluffs

The board endorsed management plans for two donated conservation lands properties Springwater. The management plans outline ecological and geological features of each property, and suggest potential recreational uses to be developed over the next ten years.

Further, the board received an Emergency Action Plan for the Nottawasaga Bluffs Conservation Area. Developed in consultation with local emergency management services, this plan provides first responders with key information needed during an emergency situation. Similar plans are already in place for Minesing Wetlands Conservation Area. These two areas have seen emergency rescues over the past few years.

Top Marks for NVCA Customer Service

The board received the 2017 Customer Satisfaction Report. This report summarizes comments received on NVCA programs, including planning, stewardship and environmental education. Overall, feedback was very positive across all programs, with knowledge, courtesy and other aspects of customer service being rated excellent or good by 90% of respondents. The report is available online at <u>nvca.on.ca/about/CustomerService</u>

In brief

During the meeting the board also:

- received a delegation by Kenn Smart, P.Eng, on behalf of the Township of Springwater with regards to work to lower water levels the Swaley Drain, which outlets into the Minesing Wetlands, to improve drainage of nearby agricultural lands.
- appointed Andrew Fera, NVCA Regulations Technician, as an officer for the authority under the Conservation Authorities Act
- received the 2017 NVCA annual report (available online at <u>nvca.on.ca/about/PlansFinancials</u>).

Call for Nominations – 2018 Conservation Champion Awards

The nomination period for the 2018 NVCA Conservation Champion Awards is now open!

The Conservation Champion Awards are given out annually to recognize people, organizations, business and municipalities for their outstanding contributions to sustainability and stewardship in our watershed. There is a special category for young conservationists.

Nomination forms are available at <u>nvca.on.ca/about/conservation-champions</u>.

Nominations close March 19.

Future Meetings and Events

Nature Days for Homeschoolers

Friday, March 2, 10:00 am - 3:00 pm Tiffin Centre for Conservation, 8195 8th Line, Utopia

Flood Workshop - Protecting your Family and Property

Tuesday, March 6, 6:30 pm - 8:30 pm Mono Centre Community Centre, 754483 Mono Centre Rd., Mono

March Break Family Day – Monday Monday, March 12, 10:00 am - 3:00 pm Tiffin Centre for Conservation, Utopia

March Break Family Day – Friday

Friday, March 16, 10:00 am - 3:00 pm Tiffin Centre for Conservation

Caring for your Horse & Farm Workshop Wednesday, April 4, 6:00 pm - 9:00 pm Orangeville Library, 1 Mill St., Orangeville

Spring Tonic Maple Syrup Festival Saturday, April 7 & Sunday April 8, 9:00 am - 3:00 pm Tiffin Centre for Conservation, Utopia

NVCA Evening of Thanks - Volunteer Appreciation & Conservation Champions Awards

Tuesday, April 17, 5:00 pm – 6:30 pm Tiffin Centre for Conservation, Utopia

For more information on these events, please visit the <u>NVCA website</u>.

Denise Holmes

From:	Tecia White <tecia@white-water.ca></tecia@white-water.ca>
Sent:	Saturday, February 24, 2018 12:53 PM
То:	'Richardson, Seana (MNRF)'
Cc:	GHoran@Strada-Aggregates.com; dholmes@melancthontownship.ca
Subject:	RE: Strada Aggregates - 2017 Groundwater Compliance Report
Attachments:	2017 Complaince Report_Shelburne South_COMPLETE.pdf

Hi Seana,

Please see the attached 2017 Compliance Groundwater Monitoring Report for the Shelburne South Pit. The report has been prepared to comply with reporting requirements under the Aggregate Resources Act (Site Plans). The findings indicate that the extraction of aggregate from above the water table has had no long-term influence on the groundwater regime.

I understand that the Ministry is moving towards having digital records of compliance reports. If you require a hard copy of the report, please let me know.

Regards Tecia White Whitewater Hydrogeology Ltd. Cell: 705-888-7064

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Whitewater Hydrogeology Ltd.

2017 COMPLIANCE GROUNDWATER MONITORING REPORT

SHELBURNE SOUTH PIT

Prepared for: Strada Aggregates

Whitewater Hydrogeology LtdPhone:705.888-7064Email:tecia@white-water.ca

Date: February 2018



February 15, 2018

Strada Aggregates Inc. 30 Floral Parkway Concord, Ontario L4K 4R1

Attention: Mr. Grant Horan Controller

Re: 2017 Compliance Report: Strada Aggregates: Shelburne South Pit

Dear Sir:

Whitewater Hydrogeology Ltd. (Whitewater) is pleased to present the 2017 Compliance Groundwater Monitoring Report for the Shelburne South Pit. The report has been prepared to comply with reporting requirements under the Ontario Water Resources Act (PTTW No. 3210-AKRL9C) and the Aggregate Resources Act (Site Plans). The findings indicate that the extraction of aggregate from above the water table has had no long-term influence on the groundwater regime.

If you have any questions or concerns, please do not hesitate to call at any time.

Yours truly,

Tecia White Marker F.Geo. Senior Hydrogeologist Whitewater Hydrogeology Ltd.

Cc:

Aggregate Technical Specialist: Guelph District MNR Office (1 copy via email) Township of Melancthon: Denise B. Holmes, AMCT CAO/Clerk (1 copy via email) PTTW Director: Ministry of the Environment and Climate Change (1 copy mail)

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Appendix C	Copy of PTTW and 2017 Water Taking Results

1.0 INTRODUCTION

Strada Aggregates, Inc. (Strada) owns and operates the Shelburne South Pit (formerly known as the Melancthon Pit); a 47.5 ha (117.3 acre) above water aggregate site located in the West Half of Lots 11 and 12, Concession 3 O.S., Township of Melancthon, Dufferin County (Figure 1). The Shelburne South Pit holds a Class "A" Aggregate Resources Act (ARA) license, which is restricted to extracting aggregate material no closer than 1.5 m above the established water table.

In addition, Strada holds an Ontario Water Resources Act, Section 43 Permit to Take Water (PTTW No.: 3210-AKRL9C). The PTTW allows for the taking of water for the sole purpose of washing gravel in a closed loop system where most of the water is recirculated and does not include dust suppression. Water taking under the authorization of the PTTW shall only occur to a maximum of 230 days between April 1 and November 16 of each year from date of issue to March 31, 2027. The PTTW allows for 4,000 L/min to be pumped from the Wash Pond for no more than 10-hours a day.

As a condition of the Site Plans and the PTTW, an annual groundwater monitoring report is to be submitted to the Ministry of Natural Resources and Forestry (MNRF) by March 31 of each year. The compliance groundwater monitoring program regulated under the sites ARA license and the PTTW is outlined in the "Hydrogeological Assessment Report; Proposed Melancthon Pit" dated March 2010 and Condition 4.2 of the PTTW.

1.1 Compliance Monitoring Program

The on-going monitoring program at the site is outlined in Table 1. The information that is highlighted in red represents the components of the program that have been added in addition to the ARA compliance requirements to meet the recommendations made by the Township of Melancthon. The groundwater monitoring program consists of multi-level monitoring wells. These well nests consist of a shallow well (sand and gravel), a deep overburden well (Tavistock Till), and a bedrock well, which are identified as monitors A, B, and C respectively. Monitoring locations are provided on Figure 2.

	Water Leve	l Elevations	Water Qualit	y (semi-annual)	Water Quality Monitoring			
Well No.	Continuous Datalogger	Monthly Manuals	General Parameters	Petroleum Hydrocarbons	Location Rationale			
OW2-A	X	х	X	X	Up-gradient / Background Water			
OW2-B	Х	х	X	X	Quality			
OW2-C	X	X	X					
OW3-A	X	Х	×					
OW3-B	X	Х						
OW4-A	X	X	X	X	Up-gradient / Background Water			
OW4-B	X	Х	X	X	Quality			
OW4-C	X	X	X					
OW5-A	X	X	X	X	Down-gradient / Water Quality			
OW5-B	X	X	X	X				
OW5-C	X	х						
OW6-A	X	х	X	X				
OW7-A	X	х	X	X				
OW7-C	X	х	X	X	the second se			
OW8-A	X	X	X	X				
OW8-B	X	х						
OW9-A	X	X			2 / C			
OW10A	X	х	X					
OW10B	X	х						
OW11-A	X	х	X	X	Down-gradient / Water Quality			
OW11-C	X	X	X	X				
OW12-A	X	X	X	X				
OW13-A	X	X	X	X	Down-gradient of Fuel Storage			
South Pond	X	x	X	X	Surface Water Quality			
Wash Pond	X	X	X	X				

TABLE 1: COMPLIANCE MONITORING PROGRAM

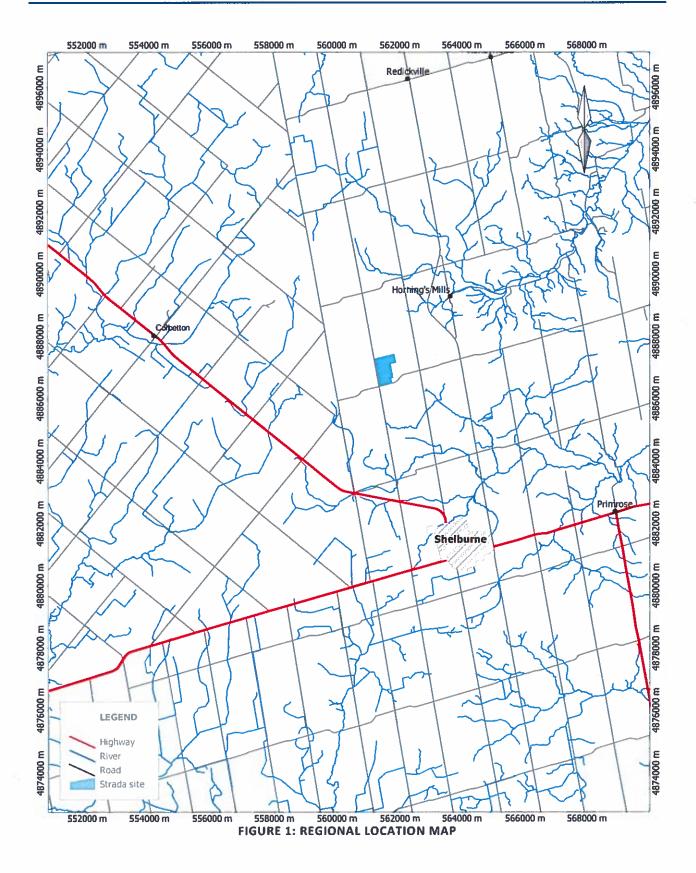




FIGURE 2: MONITORING LOCATION MAP

2.0 HYDROGEOLOGICAL AND HYDROLOGICAL EVALUATION

2.1 Climatic Conditions

A summary of precipitation data is provided in Table 2. In comparison to average data collected between 1981 and 2010, the 2017 data varies significantly month to month. In the spring, precipitation values ranged between 152-234% greater than the norms. In August and September, the precipitation values dropped to 41% and 58% below the norms. Overall, the annual total was only 11% greater.

	Jan	Feb.	Mar.	Apr	May	Jun	Jul	Aug	Sept.	Oct.	Nov.	Dec	Total
Average	64.3	54.5	60.9	70.1	86.6	81.3	80.8	88.2	87	76.6	87.1	83.9	921.3
2017	80.5	48.3	60.6	115.5	131.8	190	91.7	36.3	50.8	80.8	66.5	72.5	1025.3
% Diff	125%	89%	100%	165%	152%	234%	113%	41%	58%	105%	76%	86%	111%

TABLE 2: CLIMATE SUMMARY

2.2 Groundwater Elevations

The 2017 groundwater monitoring program consisted of the collection of continuous and monthly manual water level measurements. In order to accurately determine the true changes in water level only, barometric pressure fluctuations were removed from the data, which then was corrected to the manual water levels. The 2017 groundwater monitoring results are provided in the following sections.

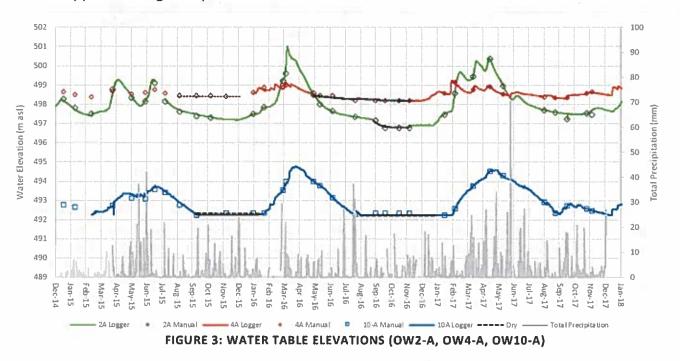
10.00					and carried						
Well ID	11-Feb	3-Mar	9-Apr	12-May	9-Jun	14-Jul	29-Aug	21-Sep	14-Oct	23-Nov	3-Dec
OW2-A	497.47	498.55	499.46	500.36	498.97	498.30	497.70	497.57	497.21	497.53	497.48
OW2-B	495.91	497.51	498.01	498.85	497.50	496.76	495.64	495.33	490.46	495.90	495.98
OW2-C	494.19	495.60	496.02	496.70	495.71	495.06	494.18	493.84	493.50	494.28	494.4
OW3-A	<498.5	<498.5	<498.5	<498.5	<498.5	<498.5	<498.5	<498.5	<498.5	<498.5	<498.5
OW3-B	489.93	492.21	492.28	493.49	492.55	491.87	490.78	490.18	490.14	490.42	490.59
OW4-A	498.58	499.15	498.76	498.93	498.52	498.56	498.39	498.34	498.33	498.57	498.6
OW4-B	498.31	498.92	498.54	498.72	498.30	498.40	498.21	498.10	498.17	498.31	498.3
OW4-C	491.09	493.64	493.53	494.32	493.30	493.05	492.04	491.55	491.54	491.76	491.9
OW5-A	489.81	490.75	490.93	491.32	490.97	490.74	490.26	490.06	489.98	490.01	490.0
OW5-B	490.65	492.84	492,90	493.64	492.82	492.39	491.49	491.07	490.72	490.85	490.4
OW5-C	490.66	492.84	492,87	493.62	492.77	492.42	491.51	491.22	490.85	491.13	491.34
OW6-A	491.50	492.39	492.90	493.24	493.15	492.75	492.12	491.71	490.72	491.46	491.6
OW7-A	489.90	490.87	491.12	491.58	491.32	491.10	490.54	na	490.00	489.96	490.0
OW7-C	489.36	491.41	491.51	492.26	491.51	491.11	490.23	na	489.36	489.89	490.0
A-8WO	492.44	492.93	493.22	493.43	493.42	493.34	493.10	492.98	493.00	492.99	492.9
OW8-B	489.16	490.59	491.04	491.79	491.30	490.90	490.13	489.71	489.58	489.73	489.8
OW9-A	491.43	492.05	493.13	493.95	493.87	493.42	492.76	492.35	492.31	492.29	492.2
OW10A	492.24	492.55	493.76	494.52	494.27	493.75	492.90	492.35	492.72	492.57	492.4
OW108	487.96	489.48	490.05	490.90	490.31	489.81	488.87	488.39	488.25	488.55	488.6
OW11-A	6.49	6.49	6.49	6.49	6.49	3.44	na	4.69	5.07	4.86	5.04
OW11-C	6.50	6.50	6.50	6.50	6.50	3.23	na	4.66	5.05	4.79	5.04
OW12-A	491.91	492.40	492.69	492.91	492.96	492.87	492.64	492.39	492.50	492.50	492.4
OW13-A	497.24	497.36	497.41	497.61	497.40	497.39	497.35	497.34	497.31	497.33	497.3

TABLE 3: 2017 MANUAL GROUNDWATER ELEVATIONS

Note: OW11 has not been geodetically surveyed

2.2.1 Overburden Groundwater Levels

There are 12 shallow groundwater monitoring wells across the Shelburne Pit to measure the water table conditions in the sand and gravel aquifer, where present. At three locations, the sand and gravel unit has been dry either all or part of the monitoring period, indicating that the water table drops into the underlying till unit or bedrock formation. OW3-A has been dry since it was installed and the water level remains below an elevation of 498.5 masl in 2017. Historically, water levels have been below the base of OW4-A and OW10-A (<498.4 and <492.2 masl, respectively) with the exception of during the spring freshet period. In 2017, the water level remained above the base of these wells. The hydrographs for these wells are presented on Figure 3. Dry periods are lighted by the black dashed line.



The water levels for the remaining wells are plotted on Figure 4. Seasonal groundwater fluctuations generally range between 1 and 2 m over the course of a year, with the exception of the water levels at OW8-A, OW12-A, and OW13-A, which show a muted response. The magnitude of the water fluctuation is a function of the permeability and the specific yield of the aquifer, as well as the volume of effective infiltration. The more permeable the aquifer materials allow for relatively rapid infiltration and percolation resulting in shallow hydraulic gradients.

The washing of aggregate material commenced in the fall of 2017. Wash water is drawn from the wash pond constructed in the shallow overburden aquifer. Water is circulated through the wash plant and returned to a settling pond system where the water can recharge the shallow aquifer. OW6 is located immediately adjacent to the wash pond (approximately 40 m). Between August 28th and November 6th, 2017, water levels at OW6 show the influence from the pumping at the wash pond where water levels dropped approximately 1 m before returning to equilibrium conditions after washing ceased.

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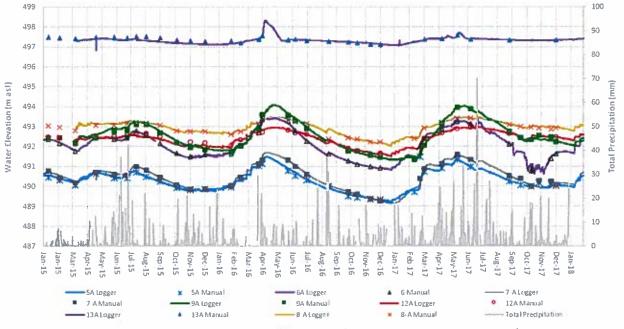
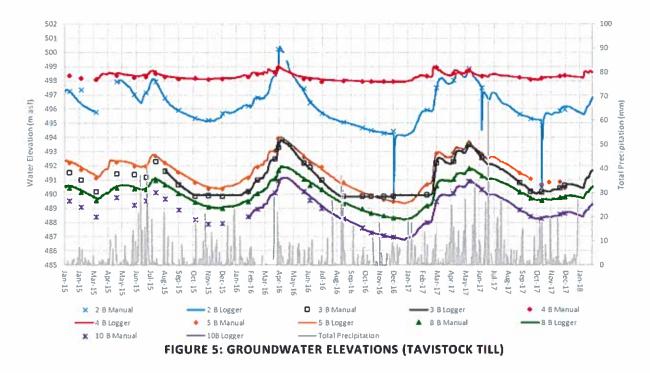


FIGURE 4: WATER TABLE ELEVATIONS (SAND AND GRAVEL AQUIFER)

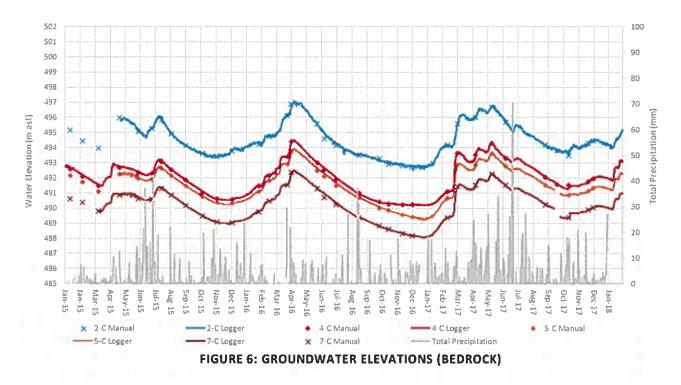
Groundwater elevations for the Tavistock Till are plotted on Figure 5. Unlike the water table aquifer, groundwater in the Till unit is controlled by the glacial re-entrant valley of the Pine River. Groundwater in the Till beneath the Shelburne South Pit flows from a high of approximately 498 masl at OW4-B to the low elevation measured at OW10-B (488 masl). During the dry summer months, the water level in OW3-B has historically dropped below the base of the well screen (and into the lower bedrock unit). In 2017, water levels remained above the base of the well



2.2.2 Bedrock Groundwater Elevations

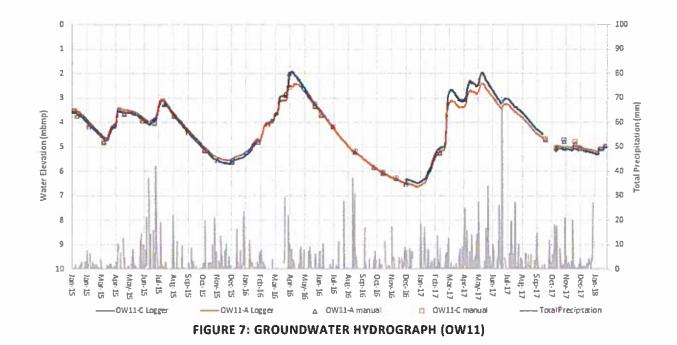
The bedrock monitoring wells were constructed to monitor the water level in the upper portion of the limestone, with the exception of OW2-C. OW2-C was drilled to a total depth of 72 m, 1 m into the Cabot Head Formation. This well was constructed as an open-hole though the entire limestone sequence (i.e., Amabel and Fossil Hill Formations). In heterogeneous fractured rock aquifers, the water level in an open hole is a composite hydraulic head that represents a weighted average of hydraulic heads based upon the transmissivity of different bedding plane fractures. This composite head is typically dominated by the most permeable fracture intersecting the bedrock well. The water level in OW2-C ranges between a high of 497 masl and a low of 492.7 masl (water level range of 4.3 m)

The groundwater elevation in the upper bedrock system ranges between 488 masl and 493.5 masl during the drier periods, which increases to between 491 masl and 496 masl during the wet periods of the year (spring freshet or storm events).



2.2.1 OW11 Well Nest

The OW11 well nest has not been geodetically surveyed. As a result, the continuous and manual water level measurements have not been included on the groundwater elevation hydrographs presented above. Water levels in OW11-A and OW11-C mimic conditions reported in the overburden and bedrock aquifers. The water level data is presented on Figure 7.



2.3 Groundwater Flow

The shallow groundwater pattern mimics the topographic surface. Generally groundwater in the water table aquifer flows from a high along the western property boundary towards the east and southeast (Figure 8). Groundwater elevations range from approximately 498 masl to 491 masl

2.4 Groundwater Quality

2.4.1 Groundwater Monitoring Wells

Groundwater quality sampling at the Shelburne South Pit is completed on a semi-annual basis. In 2017, the monitoring program was completed on June 9 and Oct 14, 2017. Samples were collected and analyzed for general water chemistry, volatile organic compounds (VOCs) and petroleum hydrocarbons (PHC).

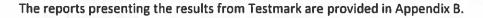
Groundwater samples were collected from dedicated monitoring wells following purging of at least three borehole volumes of water from each monitoring well (or until well pumped dry) using dedicated check valve pumps and tubing. Groundwater samples for inorganic analysis were also filtered using disposable 0.45 μ m filters (where permissible). The samples obtained for VOC/PHC analyses were obtained from the top of the water column within the well utilizing dedicated bailers prior to any purging.

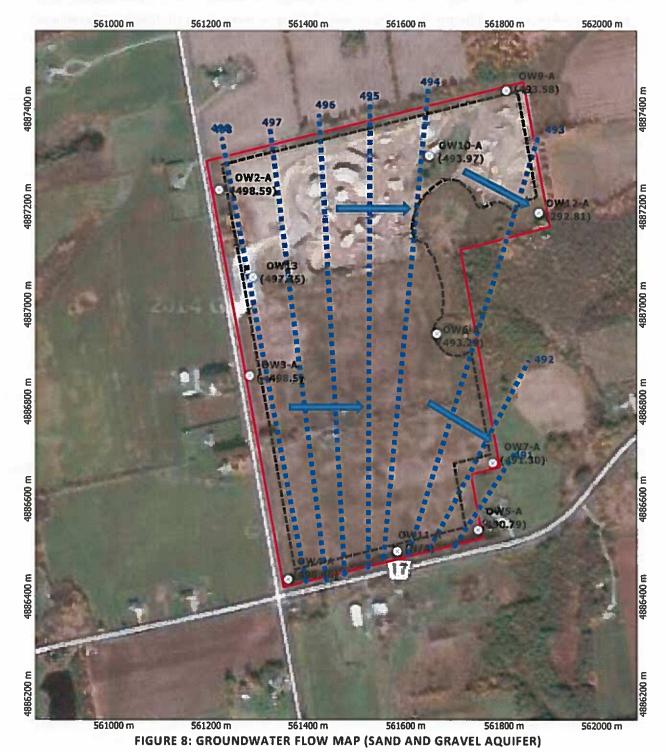
The groundwater geochemistry at the site is characterized by relatively low concentrations for most parameters. This is illustrated by the fact many inorganic parameters have a concentration that is below laboratory detection limits.

Several petroleum hydrocarbon parameters were also analyzed. Very low concentrations of toluene (1 ug/L) and benzene (0.17 ug/L) were detected in the groundwater samples collected at MW12-A (June) and MW13-A (October), respectively. These detections are considered anomalous as they occur as isolated detections just above the MDL. A low concentration of F-3 (96 ug/L) was detected at MW6-A. Based on the reported notes and discussions with the laboratory, the sample had a lower than acceptable surrogate recovery due to

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sample chemistry and a concentration close to the MDL, therefore, it is hard to know with 100% certainty the nature of the F3 hit.





2.5 Surface Water Levels

Continuous water levels from two on-site ponds have been collected over the course of the study period. The data indicates that the water levels slowly declined over the monitoring period. The water level in the North Pond reached of approximately 494 masl, while the water level in the South Pond peaked around 493.0 masl. Both ponds have historically gone dry during periods of drought. However, in 2017 both ponds remained wet throughout the ice-free conditions. Dataloggers where removed in the late fall to limit damage to the devices.

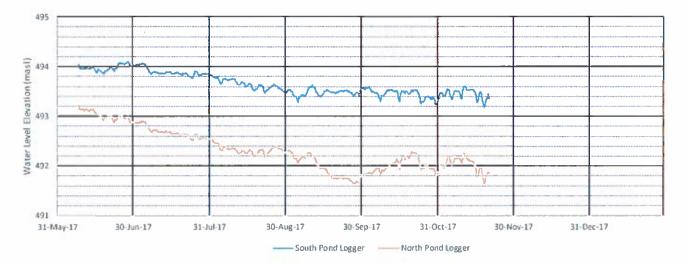


FIGURE 9: SURFACE WATER ELEVATIONS

2.6 Surface Water Quality

Surface water quality sampling at the Shelburne South Pit is completed on a semi-annual basis (spring and fall). Samples were collected and analyzed for general water chemistry, volatile organic compounds (VOCs) and petroleum hydrocarbons (PHC).

The surface water quality from the North and South Pond exhibits a Ca-HCO3 signature. The quality of the North and South Pond is typical of fresh surface water. There were no detections of petroleum hydrocarbons in 2017 from the surface water features samples collected.

A copy of the water quality results is in Appendix B.

2.7 2017 Water Takings

A summary of the permitted and actual water takings is provided in Table 4. A copy of the PTTW and 2017 daily water takings is provided in Appendix C. Strada remains in compliance with the sites PTTW.

	Max Daily Taking	Water Taking (# of days
PTTW No.: 3210-AKRL9C	2,400,000	230
2017 Actual Results	2,400,000	23

TABLE 4: 2017 WATER TAKING SUMMARY

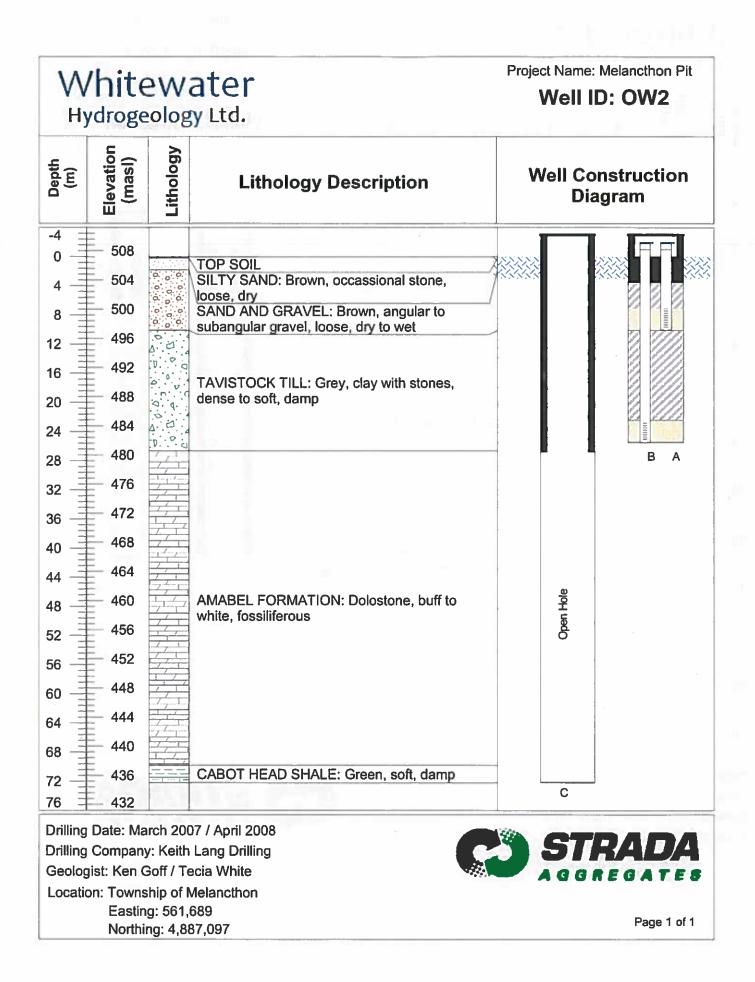
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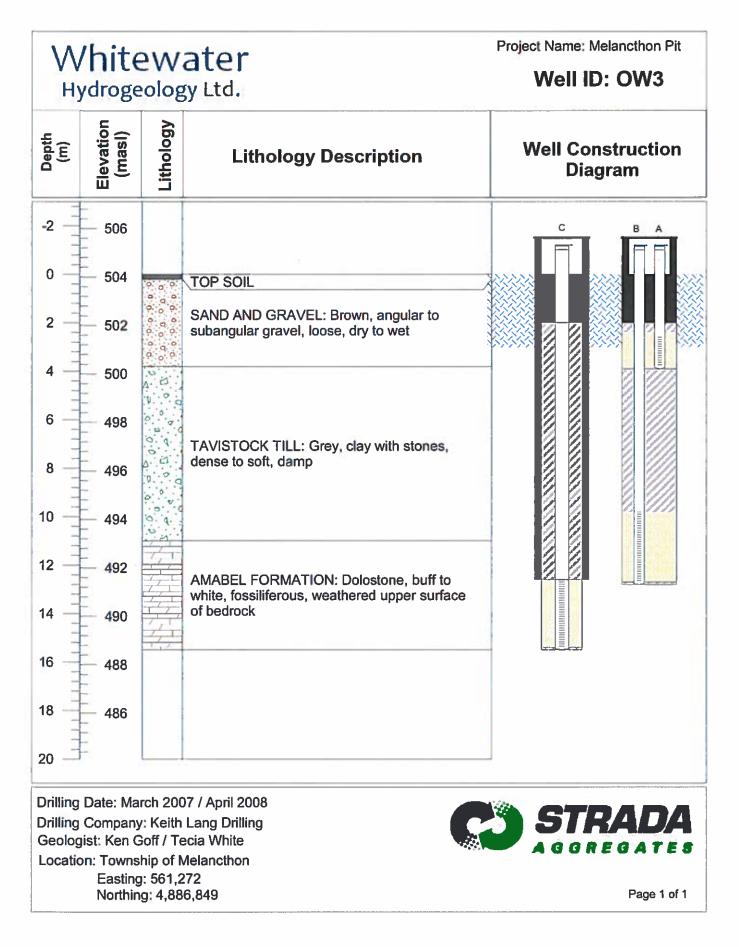
3.0 CONCLUSIONS AND RECOMMENDATIONS

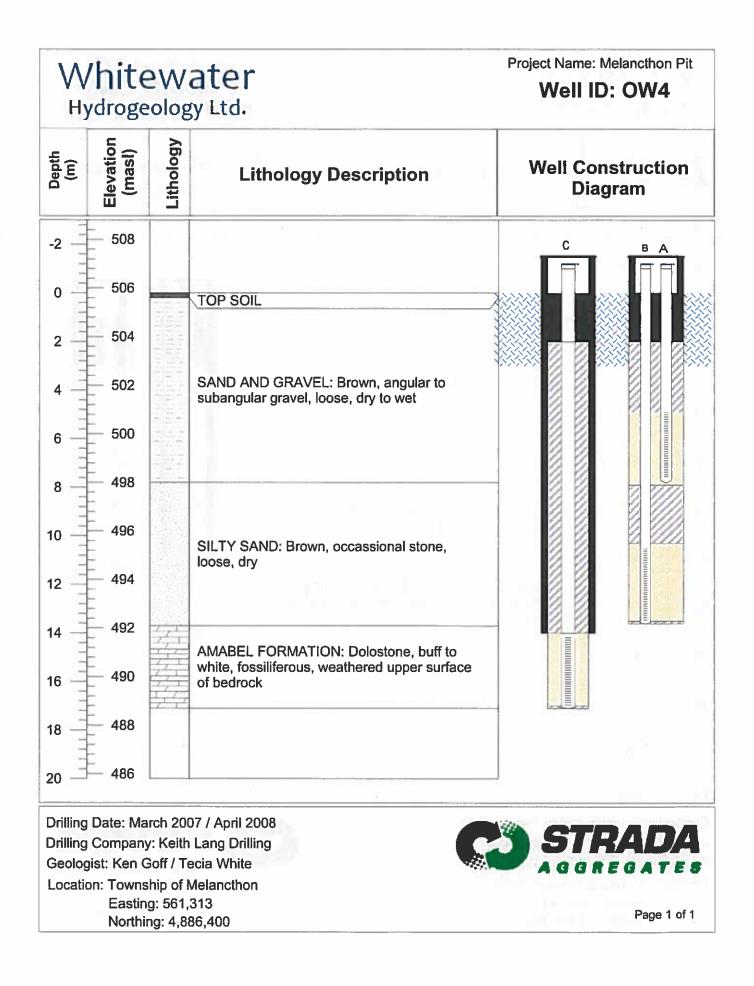
- 1. The operation of the Shelburne South Pit is currently not having any measureable impacts on the groundwater regime (water quality or quantity).
- 2. It is recommended that the compliance monitoring program continue as stipulated on the Site Plans and in agreement with the Township of Melancthon.

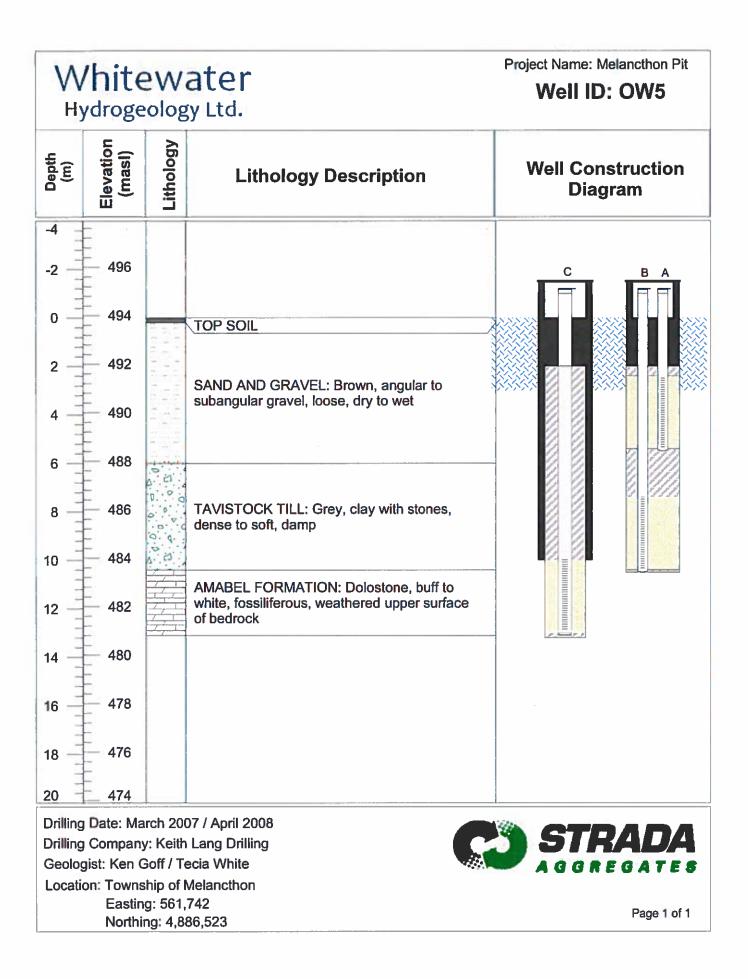
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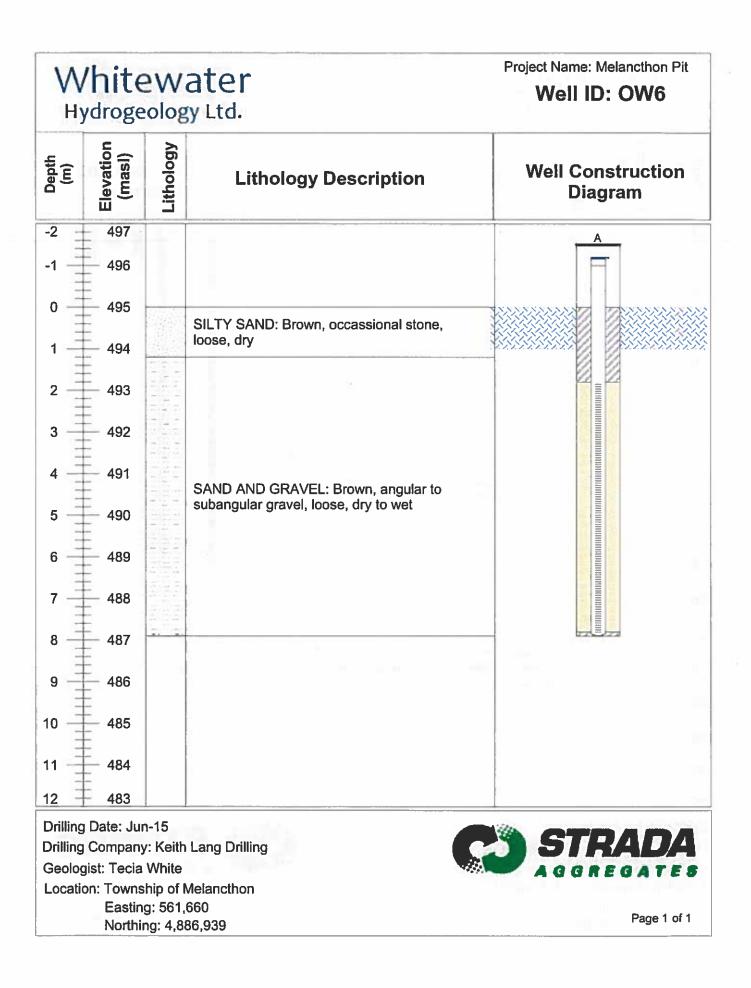
APPENDIX A BOREHOLE LOGS







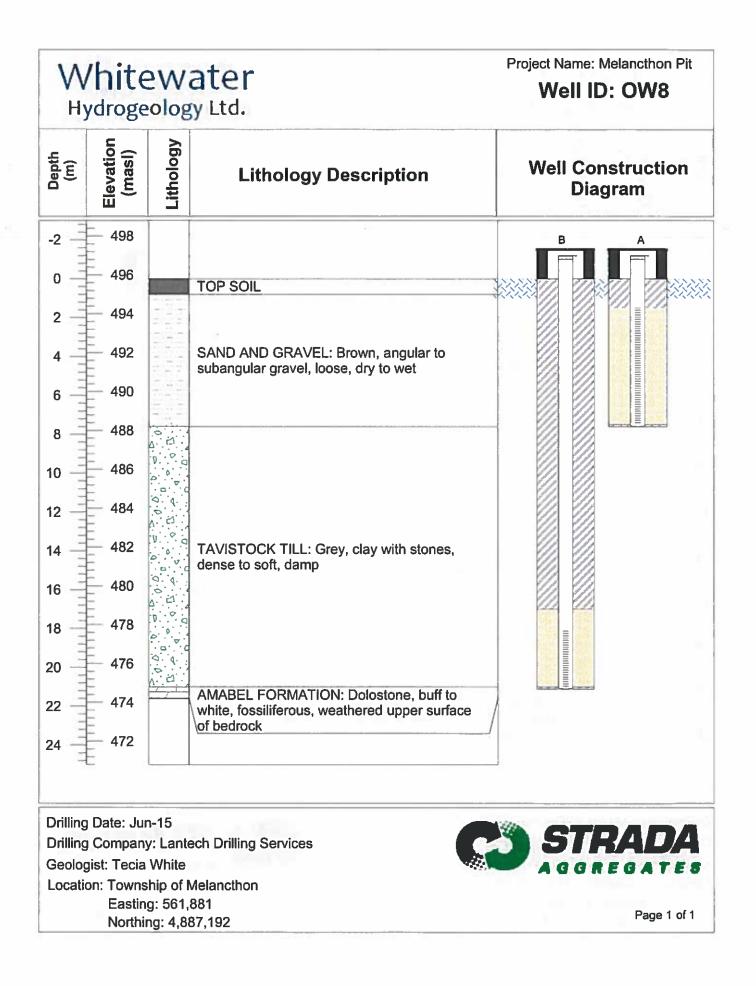


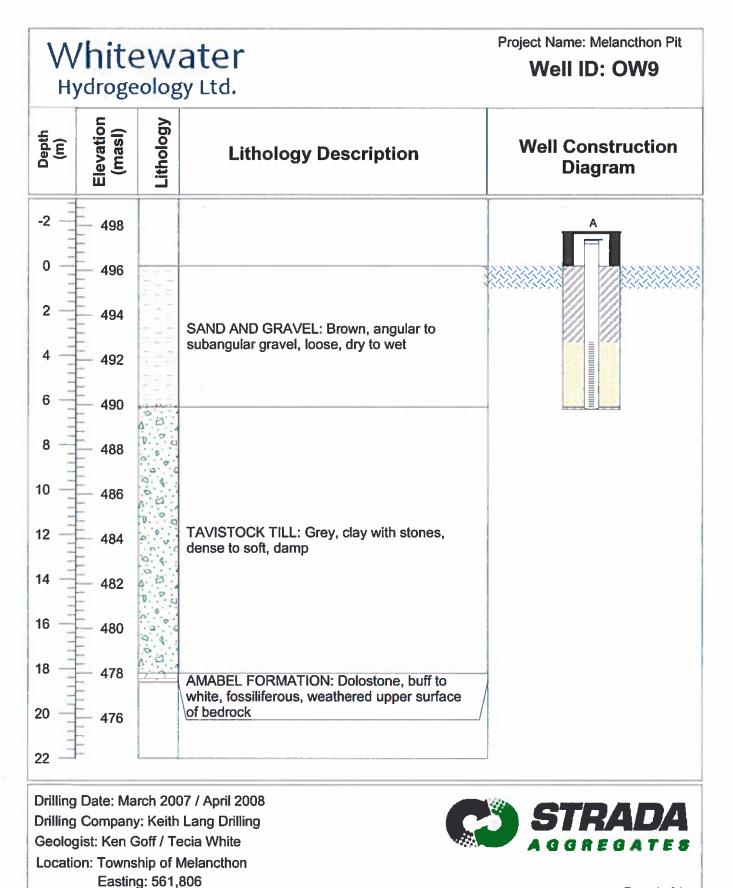


			ater gy Ltd.	Project Name: Melancthon Pit Well ID: OW7
Depth (m)	Elevation (masl)	Lithology	Lithology Description	Well Construction Diagram
-2	2			
0	0 2		SILTY SAND: Brown, occassional stone, loose, dry	
4	6		SAND AND GRAVEL: Brown, angular to subangular gravel, loose, dry to wet	
10 12 14 16	10 12 14 16		TAVISTOCK TILL: Grey, clay with stones, dense to soft, damp	A
18 20 22 24 26 28 30	18 20 22 24 26 28 30		AMABEL FORMATION: Dolostone, buff to white, fossiliferous, weathered upper surface of bedrock	Open Hole
32	32			С
Drilling	Date: Jui Company jist: Tecia	y: Keith	Lang Drilling	STRADA

Geologist: Tecia White Location: Township of Melancthon Easting: Northing:

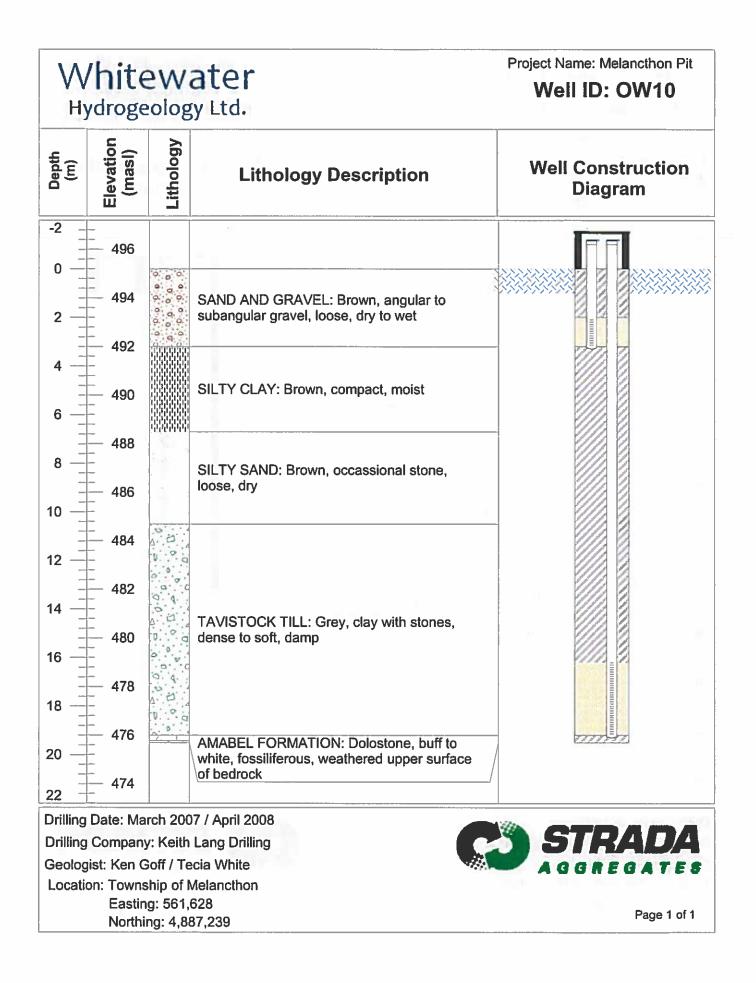


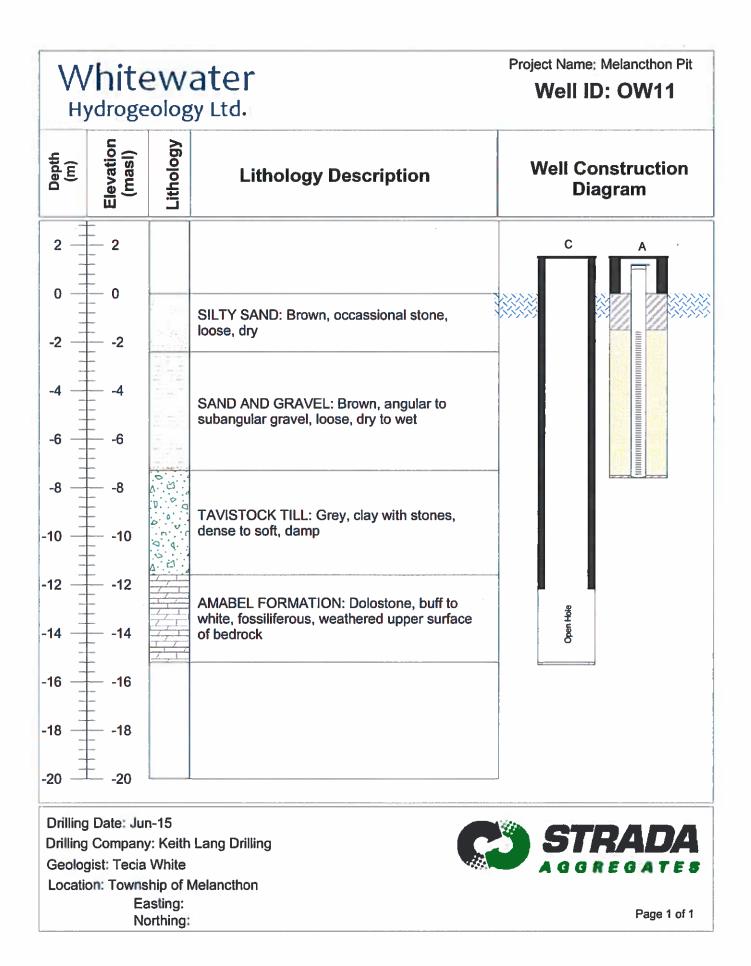


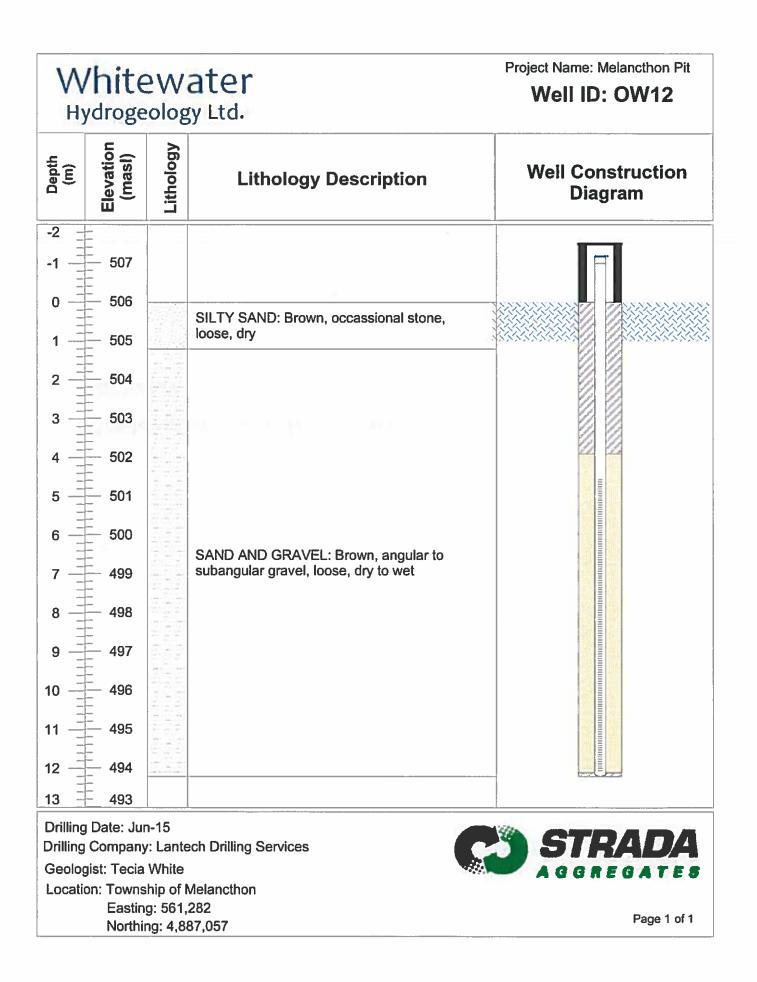


Northing: 4,887,468

Page 1 of 1







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APPENDIX B

WATER QUALITY LABORATORY RESULTS

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CERTIFICATE OF ANALYSIS

Date Order Received: Arrival Temperature;	6/12/2017 25.9 °C	Analysis Started: Analysis Completed:	6/12/2017 6/19/2017
Email:	tecia@white-water.ca	Sampled By:	
Phone:	(705) 888-7064	DWS #:	
	Collingwood, Ontario, L9Y 0C8	Project #:	Strada Aggregates (Shelburne Pit South)
Address:	80 Chamberlain Cres	Regulation:	Information not provided
Company:	Whitewater Hydrogeology Ltd.	PO #:	
Client:	Tecia White	Work Order Number:	308188

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Туре	Comments	Date Collected	Time Collected
OW2-B	885770	Ground Water	None	and the second	6/8/2017	
OW2-C	885771	Ground Water	None		6/8/2017	
OW4-B	885773	Ground Water	None		6/8/2017	
OW4-C	885774	Ground Water	None		6/9/2017	
OW5-A	885775	Ground Water	None		6/9/2017	
OW5-B	885776	Ground Water	None		6/9/2017	
OW6-A	885777	Ground Water	None		6/8/2017	
OW7-A	885778	Ground Water	None		6/9/2017	
OW7-C	885779	Ground Water	None		6/9/2017	
OW10-A	885780	Ground Water	None		6/8/2017	
OW11-A	885781	Ground Water	None		6/9/2017	
OW11-C	885782	Ground Water	None		6/9/2017	
OW12-A	885783	Ground Water	None		6/8/2017	
OW13-A	885784	Ground Water	None		6/8/2017	
North Pond	885785	Surface Water	None		6/8/2017	
South Pond	885786	Surface Water	None		6/8/2017	

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):



Whitewater Hydrogeology Ltd.

Work Order Number: 308188

Method	Lab	Description	Reference
A23-OP Water	Mississauga	Determination of Ortho-Phosphate in Water	Based on APHA-4500-P
A23-TP Water	Mississauga	Determination of Total Phosphorus in Water	Modified from APHA-4500P
A26-Colour	Mississauga	Determination of Colour by Spectrophotometry	Modified from APHA-2120C
A27-TDS	Mississauga	Determination of Total Dissolved Solids in water by gravimetry	Modified from APHA-2540
42-Ammonia Water	Mississauga	Determination of Ammonia/Ammonium in Water	Modified from APHA-4500-NH3
55-TOC Water	Mississauga	Determination of Total Organic Carbon in Water	Modified from APHA-5310
Anions Water	Garson	Determination of Anions by Ion Chromatography	Based on SW846-9056A
01-Alkalinity	Mississauga	Determination of Alkalinity in Water	Modified from APHA-2320
02-pH Water	Mississauga	Determination of pH in Water	Modified from APHA-4500-H+B
12-Cond Water	Mississauga	Determination of Conductivity in Water	Modified from APHA-2510
127-BTEX Water	Mississauga	Determination of F1/ BTEX in Water by Headspace GC/MS/FID	Modified from CWS/ EPA 624
13-Hardness	Mississauga	Determination of Total Hardness	Modified from APHA-2340B
13-ICPMS Dis Water FF	Mississauga	Determination of Dissolved (Field Filtered) Metals in Water by ICP/MS	Modified from SW846-6020
13-ICPMS Water	Mississauga	Determination of Metals in Water by ICP/MS	Modified from SW846-6020
14-VOC water	Mississauga	Determination of Volatile Organic Compounds in Water by P&T/GC/MS	Modified from EPA SW846-8260 B
21-Turbidity	Mississauga	Determination of Turbidity by Nephelometry	Modified from APHA-2130 B
59-PHC F2-F4 Water	Mississauga	Determination of PHC (F2-F4) in Water - Tier 1 CCME by GC/FID	CWS PHC Tier I CCME
94-Carbonate	Mississauga	Determination of Carbonate and Bi-Carbonate	Based on APHA-2330

REPORT COMMENTS

Regular metal scan analyzed on sample 885782 due to particulate present in sample. Dissolved metals cannot be analyzed because sample was preserved. 06/15/17 JO

This report has been approved by:

Nancy Yin, Ph.D. Laboratory Director



Whitewater Hydrogeology Ltd.

Work Order Number: 308188

WORK ORDER RESULTS

Sample Description Lab ID	OW2 - B 885770			OW2 - C 885771		OW4 - B 885773		OW4 - C 885774	
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0,1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	1.8	0.2	9.04	0.2	28.8	0.2	27.8	0.2	mg/L
Fluoride	1.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrate (as N)	<0.1	0.1	4.54	0.1	3.19	0.1	2.83	0.1	mg/L
Nitrite (as N)	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	mg/L
Sulphate	12.7	1	6.5	1	10.1	1	11.7	1	mg/L
Sample Description	OW5 - A 885775		OW5 885		OW6 885		OW: 885		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0,1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	44.8	0.2	58.6	0.2	13.1	0.2	5.21	0.2	mg/L
Fluoride	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrate (as N)	4,9	0.1	4,19	0.1	2.84	0.1	2.69	0.1	mg/L
Nitrite (as N)	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	mg/L
Sulphate	12	1	12.8	1	9	1	12.1	1	mg/L
Sample Description Lab ID	OW7 885		OW1 885		OW1 885		OW1 885		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	1.8	0.2	7.63	0.2	61.9	0.2	42	0.2	mg/L
Fluoride	<0.1	0.1	<0,1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrate (as N)	<0.1	0.1	1.6	0.1	3.8	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0,03	mg/L

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Sample Description Lab ID	OW: 885		OW1 885	0 - A 780	OW1 885		OW1 885	1 - C 782	
Anions	Result	MDL	Result	MDL	Result	MDL.	Result	MDL	Units
Sulphate	2	1	6,6	1	11.5	1	<1	1	mg/L
Sample Description Lab ID	OW12 - A 885783		OW1 885		North 885	Pond 785		Pond 786	
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	mg/L
Chloride	0.5	0.2	9,05	0.2	7,96	0.2	0.3	0.2	mg/L
Fluoride	<0.1	0,1	<0.1	0,1	<0,1	0.1	<0.1	0.1	mg/L
Nitrate (as N)	1.99	0.1	6.52	0.1	<0.1	0.1	<0.1	0.1	mg/L
Nitrite (as N)	<0.03	0.03	<0.03	0.03	<0.03	0.03	<0.03	0.03	mg/L
Sulphate	3	1	8,5	1	4.3	1	<1	1	mg/L
Sample Description Lab ID	OW/ 885			OW2 + C 885771		OW4 - B 885773		4 - C 774	
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	3.45	0.01	0.045	0.01	<0.01	0.01	0.021	0.01	mg/L
Conductivity	385	1	616	1	637	1	618	1	µS/cm
M-Alkalinity (pH 4.5)	202	2	309	2	289	2	280	2	mg/L as CaCO3
pH	7.84	N/A	7.68	N/A	7.8	N/A	7.86	N/A	pН
Total Hardness (as CaCO3)	138	0.1	300	0.1	332	0.1	332	0.1	mg/L
Total Phosphorus (as P)	0.542	0.002	0.0989	0.002	0.0318	0.002	0.391	0,002	mg/L
Turbidity	105	0.1	77.6	0.1	73	0.1	608	1	NTU

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Work Order Number: 308188

Sample Description Lab ID	OW!		OW: 885		OW 885	6 - A 777	OW 885		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	0.021	0.01	0.015	0,01	0.019	0,01	0.012 [0.012]	0.01	mg/L
Conductivity	701 [703]	1	743	1	339	1	456	1	µS/cm
M-Alkalinity (pH 4.5)	285 [285]	2	296	2	143	2	222	2	mg/L as CaCO3
рН	7.63 [7.77]	N/A	7.74	N/A	7.92	N/A	7,69	N/A	рН
Total Hardness (as CaCO3)	344	0.1	368	0.1	172	0.1	255	0.1	mg/L
Total Phosphorus (as P)	0.703	0.002	0.605	0.002	0.164	0.002	1.07	0.02	mg/L
Turbidity	376	1	132	0,1	82.6	0.1	835	1	NTU
Sample Description Lab ID	OW7 885		OW1 885		OW1 885		OW1 885		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	0.012	0.01	0.018	0,01	<0,01	0.01	0.63	0,01	mg/L
Conductivity	210	1	464	1	750	1	282	1	µS/cm
M-Alkalinity (pH 4.5)	110	2	242	2	282	2	71	2	mg/L as CaCO3
H	7.88	N/A	7.83	N/A	7.78	N/A	8.31	N/A	pH
Total Hardness (as CaCO3)	98.7	0,1	264	0.1	347	0.1	96.5	0.1	mg/L
Total Phosphorus (as P)	<0.002 [<0.002]	0.002	0.127	0.002	0.0825	0.002	<0.002	0.002	mg/L
Furbidity	31.8	0,1	153	0.1	40 [39.5]	0.1	15	0.1	NTU
Sample Description Lab ID	OW1 885		OW1 885		North 885		South 885		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	0.036	0.01	0.021	0.01	0.101	0.01	0.01	0.01	mg/L
Bicarbonate					265	1	184	1	mg/L

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Sample Description Lab ID	OW12 - A 885783			OW13 - A 885784		North Pond 885785		South Pond 885786	
General Chemistry	Result	MDL.	Result	MDL	Result	MDL	Result	MDL.	Units
Carbonate					2.4	1	1.4	1	mg/L
Conductivity	357	1	609	1	521	1	355	1	µS/cm
M-Alkalinity (pH 4.5)	192	2	307	2	267	2	185	2	mg/L as CaCO3
Orthophosphate (as P)					<0.005	0.005	0.0071 [0.0075]	0.005	mg/L
pH	7.89	N/A	7.78	N/A	7.99	N/A	7.91	N/A	pH
Total Hardness (as CaCO3)	196	0.1	365	0.1	327	0.1	218	0.1	mg/L
Total Organic Carbon					4.05 [4.07]	0.4			mg/L
Total Phosphorus (as P)	2.58	0.02	6.11	0.02	0.0061	0.002	0.019	0,002	mg/L
True Colour					16.1	1	11.3 [11.6]	1	TCU
Turbidity	1720	1	1270	2	1.4 [1.36]	0.1	1.2	0.1	NTU
Sample Description	OW	2-8	OW	2-C	OW	4 - B	OW	4-C	
Lab ID	885	770	885	771	885773		885774		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	28100	50	88900	500	102000	500	95600	500	ug/L
Magnesium	16500	4	19000	4	18700	4	22500	4	ug/L
Sample Description	OW	5-A	OW	5-B	OW	6-A	ow	7 - A	
Lab ID	885	775	885	776	885	777	885778		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	103000	500	108000	500	52900	50	79200	500	ug/L
Magnesium	20900	4	23700	4	9640	4	14000	4	ug/L



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Sample Description	OW7 - C 885779			OW10 - A 885780		OW11 - A 885781		OW11 - C 885782	
Metals	Result	MDL	Result	MDL	Result	MDL.	Result	MDL	Units
Aluminum							<1	1	ug/L
Antimony							<0.5	0.5	ug/L
Arsenic							<1	1	ug/L
Barium							4.8	1	ug/L
Beryllium							<0.5	0.5	ug/L
Bismuth							<1	1	ug/L
Boron							10	2	ug/L
Cadmium							<0.1	0.1	ug/L
Calcium	10700	50	83600	500	101000	500	9000	50	ug/L
Cerium							<1	1	ug/L
Cesium							<1	1	ug/L
Chromium							<1	1	ug/L
Cobalt							<0.1	0.1	ug/L
Copper							1,6	1	ug/L
Europium							<1	1	ug/L
Gallium							<1	1	ug/L
Iron							5470	200	ug/L
Lanthanum							<1	1	ug/L.
Lead							<1	1	ug/L
Lithium							<5	5	ug/L
Magnesium	17500	4	13400	4	23100	4	18000	4	ug/L
Manganese							157	1	ug/L
Mercury							<0.1	0.1	ug/L
Molybdenum							<1	1	ug/L
Nickel							<1	1	ug/L
Niobium							<1	-1	ug/L

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Sample Description Lab ID	OW7 - C 885779						OW1 885		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Potassium							3150	1	ug/L
Rubidium							<1	1	ug/L
Scandium							<1	1	ug/L
Selenium							<1	1	ug/L
Silicon							50.7	2	ug/L
liver							<0.1	0.1	ug/L
odium							26700	1	ug/L
trontium							8.2	1	ug/L
ulphur							<800	800	ug/L
ellurium							<1	1	ug/L
hallium							<0.1	0.1	ug/L
horium							<1	1	ug/L
in							<1	1	ug/L
itanium							<1	1	ug/L
ungsten							<1	1	ug/L
ranlum							<1	1	ug/L
anadium							<1	1	ug/L
ttrium							<1	1	ug/L
inc							2.3	1	ug/L
irconium							<1	1	ug/L
ample Description ab ID		OW12 - A OW13 - A North Pond 885783 885784 885785					South 885		
letals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Suminum				3 11 12 12 10 10	<1	1	<1	1	ug/L
Antimony					<0.5	0.5	<0.5	0.5	ug/L



Whitewater Hydrogeology Ltd.

Work Order Number: 308188

Sample Description Lab ID	OW12 - A 885783			OW13 - A 885784		North Pond 885785		South Pond 885786	
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Arsenic					<1	1	<1	1	ug/L
Barium					43.6	1	7.6	1	ug/L
Beryllium					<0.5	0.5	<0.5	0.5	ug/L
Bismuth					<1	1	<1	1	ug/L
Boron					3.7	2	2.3	2	ug/L
Cadmium					<0.1	0.1	<0.1	0.1	ug/L
Calcium	66900	500	96100	500	106000	500	78200	500	ug/L
Cerlum					<1	1	<1	1	ug/L
Cesium					<1	1	<1	1	ug/L
Chromium					1.2	1	1.4	1	ug/L
Cobalt					0.17	0.1	<0.1	0.1	ug/L
Copper					1	1	<1	1	ug/L
Europium					<1	1	<1	1	ug/L
Sallium					<1	1	<1	1	ug/L
ron					289	20	170	20	ug/L
anthanum					<1	1	<1	1	ug/L
ead					<1	1	<1	1	ug/L
ithium					<5	5	<5	5	ug/L
Aagnesium	6910	4	30400	4	15000	4	5530	4	ug/L
Manganese					114	1	40.8	1	ug/L
Vercury					<0.1	0.1	<0.1	0.1	ug/L
Aolybdenum					<1	1	<1	1	ug/L
lickel					1.8	1	1.3	1	ug/L
liobium					<1	1	<1	1	ug/L
hosphorus					<50	50	<50	50	ug/L
Potassium					2660	1	2010	1	ug/L

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Sample Description Lab ID	OW12 - A 885783			OW13 - A 885784		North Pond 885785		South Pond 885786	
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Rubidium					1,9	1	2.2	1	ug/L
Scandium					<1	1	<1	1	ug/L
Selenium					<1	1	<1	1	ug/L
Silicon					1960	2	1200	2	ug/L
Silver					<0.1	0.1	<0,1	0,1	ug/L
Sodium					3220	1	875	1	ug/L
Strontium					136	1	115	1	ug/L
Sulphur					1600	800	<800	800	ug/L.
Tellurium					<1	1	<1	1	ug/L
Thallium					<0.1	0.1	<0,1	0.1	ug/L
Thorium					<1	1	<1	1	ug/L
Tin					<1	1	<1	1	ug/L
litanium					<1	1	<1	1	ug/L
Tungsten					<1	1	<1	1	ug/L
Jranium					<1	T	<1	1	ug/L.
Vanadium					<1	1	<1	1	ug/L
Yttsium					<1	1	<1	1	ug/L
Zinc					5.2	1	7.9	1	ug/L
Zirconium					<1	1	<1	1	ug/L
Sample Description	OW2	2-8	OW	2-C	OW4	I-B	OW	4 - C	
Lab ID	885	885770		771	885	773	885	774	
Metals (Dissolved - Field Filtered)	Result	MDL	Result	MDL	Result	MDL	Result	MDL.	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	2,9	1	1.4	1	<1	1	<1	1	ug/L

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Work Order Number: 308188

Sample Description Lab ID Metals (Dissolved - Field Filtered)	OW2 - B 885770			OW2 - C 885771		OW4 - B 885773		OW4 - C 885774	
	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Barium	28.6	1	50.5	1	45.8	1	31.1	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Boron	342	2	108	2	2.1	2	<2	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0,1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	28100	50	88900	500	102000	500	95600	500	ug/L
Dissolved Chromium	2,2	1	2.7	1	2.6	1	2,9	1	ug/L
Dissolved Cobalt	<0.1	0.1	0.18	0,1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Copper	<1	1	<1	1	<1	1	<1	1	ug/L,
Dissolved Iron	7960	200	255	20	100	20	90	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	16500	4	19000	4	18700	4	22500	4	ug/L
Dissolved Manganese	79.2	1	23.1	1	<1	1	<1	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	7.6	1	3.1	1	<1	1	<1	1	ug/L
Dissolved Nickel	<1	1	1.6	1	1.6	1	1.7	1	ug/L
Dissolved Potassium	4380	100	2740	100	790	100	730	100	ug/L
Dissolved Selenium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Silver	<0.1	0,1	<0.1	0.1	<0,1	0.1	<0.1	0,1	ug/L
Dissolved Sodium	35000	100	14200	100	18600	100	15900	100	ug/L
Dissolved Strontium	407	1	254	1	143	1	124	1	ug/L
Dissolved Sulfur	<800	800	1900	800	3500	800	3700	800	ug/L
Dissolved Thaillum	<0.1	0.1	<0.1	0,1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L

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Sample Description Lab ID	OW2 - B 885770			OW2 - C 885771		OW4 - B 885773		OW4 - C 885774	
Metals (Dissolved - Field Filtered)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	11.1	1	2.1	1	1.9	1	85.8	1	ug/L
Sample Description Lab ID	OW5 - A 885775		OW5 885			OW6 - A 885777		OW7 - A 885778	
Metals (Dissolved - Field Filtered)	Result	MDL	Result	MDL.	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0,5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	49.6	1	35.7	1	39.1	1	45.4	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	- 11 I	<1	1	ug/L
Dissolved Boron	3.2	2	3.9	2	<2	2	<2	2	ug/L
Dissolved Cadmium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0,1	ug/L
Dissolved Calcium	103000	500	108000	500	52900	50	79200	500	ug/L
Dissolved Chromium	2.9	1	3.1	1	1.7	1	2	1	ug/L
Dissolved Cobalt	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Copper	<1	1	1,1	1	<1	1	<1	1	ug/L
Dissolved Iron	99	20	94	20	53	20	76	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L



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Work Order Number: 308188

Sample Description Lab ID		OW5 - A 885775		OW5 - B 885776		OW6 - A 885777		OW7 - A 885778	
Metals (Dissolved - Field Filtered)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Magnesium	20900	4	23700	4	9640	4	14000	4	ug/L
Dissolved Manganese	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Mercury	<0.1	0,1	<0.1	0,1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	<1	1	<1	1	<1	1	ug/L,
Dissolved Nickel	1.6	1	1.8	1	<1	1	1.2	1	ug/L
Dissolved Potassium	4400	100	2700	100	3070	100	1340	100	ug/L
Dissolved Selenium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Sodium	24600	100	32200	100	4900	100	3150	100	ug/L.
Dissolved Strontlum	149	1	146	1	80.3	1	123	1	ug/L
Dissolved Sulfur	4000	800	4500	800	2900	800	3000	800	ug/L
Dissolved Thallium	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Vanadium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Zinc	1.6	1	26,7	1	2,3	1	1.4	1	ug/L
Sample Description Lab ID	OW7 - C 885779		OW10 - A 885780		OW1 885				
Metals (Dissolved - Field Filtered)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L

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Sample Description Lab ID Metals (Dissolved - Field Filtered)	OW7 885			OW10 - A 885780		OW11 - A 885781		OW12 - A 885783	
	Result	MDL.	Result	MDL.	Result	MDL	Result	MDL	Units
Dissolved Barium	2.6	1	32.6	1	38.3	1	2.9	1	ug/L
Dissolved Beryllium	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	<1	1	<1	1	<1	- 1	ug/L
Dissolved Boron	9.8	2	<2	2	4	2	<2	2	ug/L
Dissolved Cadmium	<0,1	0,1	<0,1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Calcium	10700	50	83600	500	101000	500	66900	500	ug/L
Dissolved Chromium	<1	1	2.1	1	2.9	1	2	1	ug/L
Dissolved Cobalt	<0.1	0.1	<0.1	0.1	<0.1	0,1	<0,1	0.1	ug/L
Dissolved Copper	<1	1	<1	1	1.1	1	<1	1	ug/L
Dissolved Iron	190	20	84	20	100	20	72	20	ug/L
Dissolved Lanthanum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lead	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Lithium	<5	5	<5	5	<5	5	<5	5	ug/L
Dissolved Magnesium	17500	4	13400	4	23100	4	6910	4	ug/L
Dissolved Manganese	285	1	<1	1	<1	1	<1	1	ug/L
Dissolved Mercury	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0,1	ug/L
Dissolved Molybdenum	5	1	<1	1	<1	1	<1	1	ug/L
Dissolved Nickel	<1	1	1.4	1	1.8	1	1.1	1	ug/L
Dissolved Potassium	780	100	570	100	2840	100	370	100	ug/L
Dissolved Selenium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0.1	<0.1	0,1	<0.1	0.1	ug/L
Dissolved Sodium	2730	100	3630	100	37300	100	6270	100	ug/L
Dissolved Strontium	10,7	1	113	1	150	1	114	1	ug/L
Dissolved Sulfur	<800	800	2300	800	4800	800	1200	800	ug/L
Dissolved Thallium	<0.1	0.1	<0,1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	<1	1	<1	1	<1	1	ug/L



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Sample Description Lab ID	OW7 - C 885779		OW10 - A 885780		OW11 - A 885781		OW12 - A 885783			
Metals (Dissolved - Field Filtered)	Result	MDL.	Result	MDL.	Result	MDL	Result	MDL	Units	
Dissolved Tin	<1	1	<1	1	<1	1	<1	1	ug/L	
Dissolved Titanium	<1	1	<1	1	<1	1	<1	1	ug/L	
Dissolved Tungsten	<1	1	<1	1	<1	1	<1	1	ug/L	
Dissolved Uranium	<1	1	<1	1	<1	1	<1	1	ug/L	
Dissolved Vanadium	<1	1	<1	1	<1	1	<1	1	ug/L,	
Dissolved Zinc	2	1	10.4	1	26.2	1	<1	1	ug/L	

Sample Description Lab ID	OW1 885		
Metals (Dissolved - Field Filtered)	Result	MDL	Units
Dissolved Aluminum	<2	2	ug/L,
Dissolved Antimony	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	ug/L
Dissolved Barium	72	1	ug/L
Dissolved Beryllium	<0.5	0.5	ug/L
Dissolved Bismuth	<1	1	ug/L
Dissolved Boron	<2	2	ug/L
Dissolved Cadmium	<0.1	0,1	ug/L
Dissolved Calcium	96100	500	ug/L
Dissolved Chromium	3.8	1	ug/L.
Dissolved Cobalt	<0.1	0.1	ug/L
Dissolved Copper	<1	1	ug/L.
Dissolved Iron	93	20	ug/L
Dissolved Lanthanum	<1	1	ug/L
Dissolved Lead	<1	1	ug/L
Dissolved Lithium	<5	5	ug/L
Dissolved Lithium	<5	5	ug/L



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Sample Description	OW1	3-A	
Lab ID	885	784	
Metals (Dissolved - Field Filtered)	Result	MDL	Units
Dissolved Magnesium	30400	4	ug/L
Dissolved Manganese	<1	1	ug/L
Dissolved Mercury	<0.1	0.1	ug/L
Dissolved Molybdenum	<1	1	ug/L
Dissolved Nickel	1.5	1	ug/L
Dissolved Potassium	1020	100	ug/L
Dissolved Selenium	<1	1	ug/L
Dissolved Silver	<0.1	0.1	ug/L
Dissolved Sodium	4130	100	ug/L
Dissolved Strontlum	152	1	ug/L
Dissolved Sulfur	4300	800	ug/L
Dissolved Thallium	<0.1	0.1	ug/L
Dissolved Thorium	<1	1	ug/L
Dissolved Tin	<1	1	ug/L
Dissolved Titanium	<1	1	ug/L
Dissolved Tungsten	<1	1	ug/L
Dissolved Uranium	<1	1	ug/L
Dissolved Vanadium	<1	1	ug/L
Dissolved Zinc	<1	1	ug/L

Sample Description Lab ID		OW2 - B 885770		OW4 - B 885773		OW5 - A 885775		OW5 - B 885776	
Petroleum Hydrocarbons	Result	MDL	Result	MDL.	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F2 (C10-C16)	<60	60	<50	50	<40	40	<50	50	ug/L



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Sample Description Lab ID	and the second se	OW2 - B 885770		OW4 - B 885773		OW5 - A 885775		OW5 - B 885776	
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F3 (C16-C34)	<60	60	<50	50	<40	40	<50	50	ug/L
F4 (C34-C50)	<60	60	<50	50	<40	40	<50	50	ug/L
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
1,4-dichlorobenzene-d4 (Surr)	95.9	N/A	95	N/A	94.1	N/A	94.1	N/A	% Rec
o-Terphenyl (Surr.)	69.3	N/A	75.3	N/A	60.5	N/A	68	N/A	% Rec
undecane (Sum)	109	N/A	108	N/A	110	N/A	107	N/A	% Rec
Sample Description Lab ID	OW6 - A 885777		OW7 885		OW7 885		OW1 885		
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F2 (C10-C16)	<60	60	<50	50	<60	60	<50	50	ug/L
F3 (C16-C34)	<60	60	<50	50	<60	60	<50	50	ug/L
F4 (C34-C50)	<60	60	<50	50	<60	60	<50	50	ug/L
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
1,4-dichlorobenzene-d4 (Surr)	95.3	N/A	94	N/A	94.3	N/A	93	N/A	% Rec
o-Terphenyl (Surr.)	73.5	N/A	72.6	N/A	74.8	N/A	73.3	N/A	% Rec
undecane (Surr)	106	N/A	106	N/A	108	N/A	109	N/A	% Rec
Sample Description Lab ID	OW1 885			OW12 - A 885783		3 - A 784	North Pond 885785		
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F2 (C10-C16)	<60	60	<60	60	<50	50	<50	50	ug/L

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Whitewater Hydrogeology Ltd.

Sample Description Lab ID	OW11 - C 885782		OW12 - A 885783		OW13 - A 885784		North Pond 885785			
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL.	Units	
F3 (C16-C34)	<60	60	<60	60	<50	50	<50	50	ug/L	
F4 (C34-C50)	<60	60	<60	60	<50	50	<50	50	ug/L	
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA	
1,4-dichlorobenzene-d4 (Surr)	94,5	N/A	93.8	N/A	94	N/A	94,1	N/A	% Rec	
o-Terphenyl (Surr.)	79.5	N/A	61.1	N/A	63.5	N/A	79.7	N/A	% Rec	
undecane (Surr)	109	N/A	110	N/A	108	N/A	107	N/A	% Rec	

Sample Description Lab ID	South 885		
Petroleum Hydrocarbons	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20 [<20]	20	ug/L
F1 (C6-C10) Incl. BTEX	<20 {<20]	20	ug/L
F2 (C10-C16)	<50	50	ug/L
F3 (C16-C34)	<50	50	ug/L
F4 (C34-C50)	<50	50	ug/L
Baseline @ C50	Yes	N/A	NA
1,4-dichlorobenzene-d4 (Surr)	93.2 [93.4]	N/A	% Rec
o-Terphenyl (Surr.)	67.8	N/A	% Rec
undecane (Surr)	109 [108]	N/A	% Rec

Sample Description Lab ID	OW2 - B 885770			OW2 - C 885771		OW4 - B 885773		OW4 - C 885774	
Solids	Result	MDL	Result	MDL.	Result	MDL	Result	MDL	Units
Total Dissolved Solids	203	4	387	3	355	3	344	6	mg/L

CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 308188

Sample Description Lab ID	OW: 885		OW! 885		OW6 885		OW. 885		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL.	Units
Total Dissolved Solids	352	6	446 [456]	6	219	3	370	20	mg/L
Sample Description Lab ID	OW7 885		OW10 - A 885780		OW11 - A 885781		OW1 885		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Dissolved Solids	129	3	292	6	431	3	161	3	mg/L
Sample Description Lab ID	OW1 885		OW13 - A 885784		North Pond 885785		South 885		
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Dissolved Solids	400	20	507	20	323	3	225	3	mg/L
Sample Description Lab ID	OW2 885	electronic in the	OW4 - B 885773		OW5 - A 885775		OW: 885	and the second second	
Volatile Organic Compounds	Result	MDL.	Result	MDL	Result	MDL	Result	MDL	Units
Benzene	<0.1	0.1	<0.1	0,1	<0.1	0.1	<0.1	0,1	ug/L
Ethylbenzene	<0.5	0.5	<0,5	0.5	<0.5	0.5	<0.5	0,5	ug/L
oluene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
n+p-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0,5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0,5	0.5	ug/L
,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
,1,1-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L

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Sample Description Lab ID	OW2 - B 885770			OW4 - B 885773		OW5 - A 885775		OW5 - B 885776	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1,1-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromo-3-chloropropane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
1,2-Dibromoethane	<0.2	0.2	<0.2	0.2	<0.2	0,2	<0.2	0.2	ug/L
1,2-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0,5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0,5	<0,5	0,5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane-d4 (Surr)	121	N/A	121	N/A	121	N/A	119	N/A	% Rec
1,2-Dichloropropane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichloropropane	<0.3	0,3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0,5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	103	N/A	104	N/A	102	N/A	103	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	<30	30	ug/L
Bromobenzene	<0.3	0,3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Bromochloromethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Bromodichloromethane	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Bromoform	<0.5	0.5	<0.5	0,5	<0.5	0.5	<0.5	0.5	ug/L
Bromomethane	<0.5	0.5	<0.5	0,5	<0.5	0,5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Chloroethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Chloroform	<1	1	<1	1	<1	1	<1	1	ug/L
Chloromethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L

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CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 308188

Sample Description Lab ID	OW2 - B 885770			OW4 - B 885773		OW5 - A 885775		5 - B 776	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dibromochloromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dibromomethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Dichlorodifluoromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Hexachlorobutadiene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	<2	2	<2	2	<2	2	ug/L
n-Hexane	<5	5	<5	5	<5	5	<5	5	ug/L
Styrene	<0,5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Tetrachloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene-d8 (Surr.)	100	N/A	102	N/A	101	N/A	103	N/A	% Rec
Trans-1,2-dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trans-1,3-dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0,5	<0,5	0,5	ug/L
Trichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichlorofluoromethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Vinyl chloride	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Sample Description	OW(OW2 885		OW. 885		OW1 885		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
	A Distance of the other party of the				14 million (14		Kernistaan aan di Parte		
Benzene	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Ethylbenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
m+p-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L

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CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Sample Description Lab ID	OW6 - A 885777			OW7 - A 885778		OW7 - C 885779		OW11 - A 885781	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0,5	<0.5	0.5	ug/L
1,1,1-Trichloroethane	<0.5	0.5	<0.5	0,5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0,5	<0.5	0.5	<0.5	0,5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethylene	<0.5	0.5	<0.5	0,5	<0.5	0,5	<0.5	0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromo-3-chloropropane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
1,2-Dibromoethane	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
1,2-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane-d4 (Surr)	118	N/A	130	N/A	128	N/A	130	N/A	% Rec
1,2-Dichloropropane	<0.5	0,5	<0,5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichloropropane	<0.3	0.3	<0.3	0.3	<0,3	0.3	<0.3	0.3	ug/L
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	105	N/A	101	N/A	103	N/A	101	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	<30	30	ug/L
Bromobenzene	<0.3	0.3	<0,3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Bromochloromethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L.
Bromodichloromethane	<0.2	0.2	<0.2	0.2	<0,2	0,2	<0.2	0.2	ug/L
Bromoform	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Bromomethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L



Whitewater Hydrogeology Ltd.

Sample Description	OW6 885		OW: 885		OW7 885		OW1 885		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Chloroethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Chloroform	<1	1	<1	1	<1	1	<1	1	ug/L
Chloromethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,3-Dichloropropene	<0.5	0.5	<0,5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dibromochloromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dibromomethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Dichlorodifiuoromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Hexachlorobutadiene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl tert-bulyl ether (MTBE)	<2	2	<2	2	<2	2	<2	2	ug/L
n-Hexane	<5	5	<5	5	<5	5	<5	5	ug/L
Styrene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Tetrachloroethylene	<0.5	0.5	<0.5	0.5	⊲0.5	0.5	<0.5	0.5	ug/L.
Toluene-d8 (Surr.)	102	N/A	99	N/A	103	N/A	98.2	N/A	% Rec
Frans-1,2-dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Frans-1,3-dichloropropene	<0.5	0,5	<0,5	0.5	<0.5	0.5	<0.5	0,5	ug/L,
Frichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
fichlorofluoromethane	<0.5	0.5	<0.5	0.5	<0,5	0.5	<0.5	0.5	ug/L,
/inyt chloride	<0.1	0.1	<0.1	0.1	<0,1	0.1	<0.1	0.1	ug/L





Whitewater Hydrogeology Ltd.

Sample Description Lab ID	OW11 - C 885782			OW12 - A 885783		OW13 - A 885784		North Pond 885785	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Benzene	<0.1	0.1	<0.1	0,1	0.1	0.1	<0.1	0.1	ug/L
Ethylbenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene	<0.5	0.5	1	0.5	<0.5	0.5	<0.5	0.5	ug/L
m+p-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1-Trichloroethane	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2,2-Tetrachtoroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichtoroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromo-3-chloropropane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
1,2-Dibromoethane	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
1,2-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane-d4 (Surr)	129	N/A	126	N/A	125	N/A	128	N/A	% Rec
1,2-Dichloropropane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichtorobenzene	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichloropropane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	102	N/A	103	N/A	103	N/A	103	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	<30	30	ug/L
Bromobenzene	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Bromochloromethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L

CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 308188

Sample Description Lab ID	OW11 - C 885782			OW12 - A 885783		OW13 - A 885784		North Pond 885785	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromodichloromethane	<0.2	0.2	<0.2	0.2	<0,2	0.2	<0.2	0.2	ug/L
Bromoform	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Bromomethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L,
Chloroethane	<0.3	0.3	<0,3	0,3	<0.3	0.3	<0.3	0.3	ug/L
Chloroform	<1	1	<1	1	<1	1	<1	1	ug/L
Chloromethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dibromochloromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dibromomethane	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	ug/L
Dichlorodifluoromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	<5	5	ug/L
lexachlorobutadiene	<0.5	0.5	<0.5	0.5	<0,5	0.5	<0,5	0.5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	<2	2	<2	2	<2	2	ug/L
n-Hexane	<5	5	<5	5	<5	5	<5	5	ug/L
Styrene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0,5	0.5	ug/L
Tetrachloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L,
Toluene-d8 (Surr.)	101	N/A	101	N/A	101	N/A	99.9	N/A	% Rec
Frans-1,2-dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Frans-1,3-dichtoropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichloroethylene	<0.5	0.5	<0.5	0,5	<0,5	0.5	<0.5	0.5	ug/L

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Work Order Number: 308188

Sample Description Lab ID	OW1 885			2 - A 783	OW1 885		North 885	Pond 785	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL.	Result	MDL	Units
Trichlorofluoromethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Vinyl chloride	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Sample Description Lab ID	South 885								
Volatile Organic Compounds	Result	MDL	Units						
Benzene	<0.1	0.1	ug/L						
Ethylbenzene	<0.5	0.5	ug/L						
Toluene	<0.5	0.5	ug/L						
m+p-Xylene	<0.5	0.5	ug/L						
o-Xylene	<0.5	0.5	ug/L						
Total Xylenes	<0.5	0.5	ug/L						
1.1,1,2-Tetrachloroethane	<0.5	0.5	ug/L						
1,1,1-Trichloroethane	<0.5	0.5	ug/L						
1,1,2,2-Tetrachloroethane	<0.5	0.5	ug/L,						
1.1,2-Trichloroethane	<0.5	0.5	ug/L						
1,1-Dichloroethane	<0.5	0.5	ug/L						
1,1-Dichloroethylene	<0.5	0.5	ug/L						
1,2,4-Trichlorobenzene	<0.5	0.5	ug/L						
1,2-Dibromo-3-chloropropane	<0.3	0.3	ug/L						
1,2-Dibromoethane	<0.2	0.2	ug/L						
1,2-Dichlorobenzene	<0.5	0.5	ug/L						
1,2-Dichloroethane	<0.5	0.5	ug/L						
1,2-Dichloroethane-d4 (Surr)	129	N/A	% Rec						
1,2-Dichloropropane	<0.5	0.5	ug/L						
1.2 Diableschaenen	-0.5	0.5							

1,3-Dichlorobenzene

< 0.5

0.5

ug/L

CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Sample Description Lab ID	South 885		
Volatile Organic Compounds	Result	MDL.	Units
1,3-Dichloropropane	<0.3	0,3	ug/L.
1,4-Dichlorobenzene	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	103	N/A	% Rec
Acetone	<30	30	ug/L
Bromobenzene	<0.3	0.3	ug/L
Bromochloromethane	<0,3	0.3	ug/L
Bromodichloromethane	<0.2	0.2	ug/L
Bromoform	<0.5	0.5	ug/L
Bromomethane	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	ug/L
Chloroethane	<0.3	0.3	ug/L
Chloroform	<1	1	ug/L
Chloromethane	<0,3	0.3	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0,5	0.5	ug/L.
cis-1,3-Dichloropropene	<0,5	0.5	ug/L
Dibromochloromethane	<2	2	ug/L
Dibromomethane	<0.3	0.3	ug/L
Dichlorodlfluoromethane	<2	2	ug/L
Dichloromethane	<5	5	ug/L
Hexachlorobutadiene	<0.5	0.5	ug/L
Methyl ethyl ketone	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	ug/L
n-Hexane	<5	5	ug/L

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Whitewater Hydrogeology Ltd.

Sample Description Lab ID	South 885		
Volatile Organic Compounds	Result	MDL	Units
Styrene	<0.5	0.5	ug/L
Tetrachloroethylene	<0.5	0,5	ug/L
Toluene-d8 (Surr.)	101	N/A	% Rec
Trans-1,2-dichloroethylene	<0.5	0.5	ug/L
Trans-1,3-dichloropropene	<0.5	0.5	ug/L
Trichloroethylene	<0.5	0.5	ug/L
Trichlorofluoromethane	<0.5	0.5	ug/L
Vinyl chloride	<0.1	0.1	ug/L

Work Order Number: 308188

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

F1-BTEX, F2-NAPTH, and F3-PAH: BTEX and selected PAHs have been subtracted from the appropriate fractions only if the parameter names are F1-BTEX, F2-NAPTH, and F3-PAH, otherwise these compounds have not been subtracted from their respective fractions.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

Total Petroleum Hydrocarbons: For the analysis of Total Petroleum Hydrocarbons, the Chromatogram descended to the baseline at or before nC50; if F4G results are reported, they are not to be added to the C6 to C50 results.

Quality Control: All associated Quality Control data is available on request.



Client:	Tecia White	Work Order Number:	319270	
Company:	Whitewater Hydrogeology Ltd.	PO #:		
Address:	80 Chamberlain Cres	Regulation:	Information not provided	
	Collingwood, Ontario, L9Y 0C8	Project #:	shelburne Pit South	
Phone:	(705) 888-7064	DWS #:		
Email:	tecia@white-water.ca	Sampled By:		
Date Order Received:	10/18/2017	Analysis Started:	10/18/2017	
Arrival Temperature:	7.9 °C	Analysis Completed:	10/26/2017	

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Туре	Comments	Date Collected	Time Collected
OW2-A	1017099	Ground Water	None		10/14/2017	
OW2-C	1017100	Ground Water	None		10/14/2017	
OW4-A	1017101	Ground Water	None		10/14/2017	
OW4-B	1017102	Ground Water	None		10/14/2017	
OW4-C	1017103	Ground Water	None		10/14/2017	
OW5-A	1017104	Ground Water	None		10/14/2017	
OW5-B	1017105	Ground Water	None		10/14/2017	
OW6-A	1017106	Ground Water	None		10/14/2017	
OW7-A	1017107	Ground Water	None		10/14/2017	
OW7-C	1017108	Ground Water	None		10/14/2017	
OW8-A	1017109	Ground Water	None		10/14/2017	
OW11-A	1017110	Ground Water	None		10/14/2017	
OW11-C	1017111	Ground Water	None		10/14/2017	
OW12-A	1017112	Ground Water	None		10/14/2017	
OW13-A	1017113	Ground Water	None		10/14/2017	
South pond	1017114	Surface Water	None		10/14/2017	
Wash pond	1017115	Surface Water	None		10/14/2017	

METHODS AND INSTRUMENTATION

CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Work Order Number: 319270

Method	Lab	Description	Reference
Alkalinity (A1.0)	Garson	Determination of Alkalinity by Titration	Based on APHA-2320B
Ammonia Water (A42)	Mississauga	Determination of Ammonia/Ammonium in Water	Modified from EPA 350,1
Carbonate (A94)	Mississauga	Determination of Carbonate and Bi-Carbonate	Based on APHA-2320
Colour (A26)	Mississauga	Determination of Colour by Spectrophotometry	Modified from SM 2120 C
Conductivity of Water (A12)	Garson	Determination of Conductivity in Water	Modified from SM 2510 B
ICPMS Water (A13.1)	Mississauga	Determination of Metals in Water by ICP/MS	Modified from SW846-6020
OP Water (A23.1)	Kirkland Lake	Determination of Ortho-Phosphate in Water.	Based on EPA 365.3 and ESS 310.2
pH of Water (A2.0)	Garson	Determination of Water pH by Ion Selective Electrode	Based on APHA-4500H+ B
T05-Anions Water	Mississauga	Determination of Anions by Ion Chromatography	Modified from SW846-9056
T127-BTEX Water (T127.2ms)	Mississauga	Determination of F1/ BTEX in Water by Headspace GC/MS/FID	Modified from CWS/ EPA 624
T13-Hardness (T13.1)	Mississauga	Determination of Total Hardness	Modified from APHA-2340B
T13-ICPMS Dis Water FF (T13.3)	Mississauga	Determination of Dissolved Metals in Water by ICP/MS	Modified from SW846-6020
T14-VOC water	Mississauga	Determination of Volatile Organic Compounds in Water by P&T/GC/MS	Modified from EPA SW846-8260 B
T59-PHC F2-F4 Water	Mississauga	Determination of PHC (F2-F4) in Water - Tier 1 CCME by GC/FID	CWS PHC Tier I CCME
TDS (A27)	Mississauga	Determination of Total Dissolved Solids in water by gravimetry	Based on SM-2540
TOC Water (A55.2)	Garson	Determination of Total Organic Carbon in Water	Based on SM-5310 C
TP Water (A23.2)	Kirkland Lake	Determination of Total Phosphorus in Water.	Based on EPA 365.3 and ESS 310.2,
Turbidity (T21)	Mississauga	Determination of Turbidity by Nephelometry	Based on APHA-2130B

REPORT COMMENTS

The F2-F4 analysis of samples 1017104 and 1017106 had lower than acceptable surrogate recoveries due to sample chemistry. F1/BTEX analysis of sample 1017101 produced a lower than acceptable undecane recovery due to sample chemistry.

This report has been approved by:

Nancy Yin, Ph.D. Laboratory Director



Whitewater Hydrogeology Ltd.

Work Order Number: 319270

WORK ORDER RESULTS

Sample Description Lab ID	OW2 1017		OW4 1017		OW4 1017		OW! 1017		
Anions	Result	MDL	Result	MDL.	Result	MDL	Result	MDL	Units
Bromide	<0.05 [<0.05]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	4.32 [4.31]	0.05	14.6	0.05	30.3	0.05	24.5	0.05	mg/L
Fluoride	1.52 [1.6]	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Nitrate (as N)	0.45 {0.45]	0.05	2.17	0.05	3.04	0.05	4.3	0.05	mg/L
Nitrite (as N)	0.31 [0.3]	0.05	<0.05	0.05	0.41	0.05	<0.05	0.05	mg/L
Sulphate	10.8 [10.9]	0.05	14.5	0.05	12.1	0.05	13.1	0.05	mg/L
Sample Description Lab ID	OW5 - B 1017105		OW6 - A 1017106		OW7 - A 1017107		OW7 - C 1017108		
Anions	Result	MDL.	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Chloride	46.8	0.05	10.9	0.05	8.77	0.05	4.59	0.05	mg/L
Fluoride	<0.05	0.05	0.28	0.05	<0.05	0.05	0.3	0,05	mg/L
Nitrate (as N)	3.14	0.05	1.81	0.05	2.55	0.05	<0.05	0.05	mg/L.
Nitrite (as N)	<0.05	0.05	<0,05	0.05	<0.05	0.05	<0,05	0.05	mg/L
Sulphate	15.3	0.05	12.7	0.05	14.6	0.05	<0.05	0.05	mg/L
Sample Description Lab iD	OW8		OW1 1017		OW11 - C 1017111		OW12 - A 1017112		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Bromide	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L.
Chloride	5,39	0.05	45.1	0.05	45,1	0,05	4.34	0.05	mg/L
Fluoride	<0.05	0.05	<0.05	0.05	0.74	0.05	0.27	0.05	mg/L

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Sample Description Lab ID	OW!		OW1 1013	1 - A 7110	OW1 1017		OW1 1017		
Anions	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Nitrate (as N)	8.83	0,05	2.61	0.05	<0.05	0.05	2,14	0.05	mg/L
Nitrite (as N)	<0.05	0.05	<0.05	0.05	<0.05	0.05	<0.05	0.05	mg/L
Sulphate	8.2	0.05	14,7	0.05	<0.05	0.05	7.59	0.05	mg/L.
Sample Description Lab ID	OW13 - A 1017†13		South 1013	pond 7114	Wash 1017				
Anions	Result	MDL	Result	MDL	Result	MDL	Units		
Bromide	<0.05	0,05	<0.05	0.05	<0.05	0.05	mg/L		
Chloride	10.2	0.05	3.62	0.05	11.4	0.05	mg/L		
Fluoride	<0.05	0.05	<0.05	0,05	<0.05	0,05	mg/L		
Nitrate (as N)	8,34	0.05	<0.05	0.05	<0.05	0.05	mg/L		
Nitrite (as N)	<0.05	0.05	0,32	0.05	<0.05	0.05	mg/L		
Sulphate	11.3	0.05	<0.05	0.05	7.62	0.05	mg/L		
Sample Description Lab ID	OW2		OW: 1013	2 - C 7100	OW4 - A 1017101		OW4 - B 1017102		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	0.33	0.01			0.076	0.01	<0.01	0.01	mg/L
Conductivity	353	1	164	1	636	1	624	1	µS/cm
M-Alkalinity (pH 4.5)	199	2	101	2	358	2	303	2	mg/L as CaCO3
н	7.74	N/A	8.98	N/A	7.53	N/A	7.55	N/A	pH
Total Hardness (as CaCO3)	189	0.1			516	0.1	436	0.1	mg/L
Total Phosphorus (as P)	0.299	0.002			1.35	0.02	0.012	0.002	mg/L

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Whitewater Hydrogeology Ltd.

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Sample Description Lab ID	OW4 - C 1017103						OW 1017		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	11 A.		<0.01	0.01	<0.01	0,01	<0.01	0.01	mg/L
Conductivity	619	1	565	1	641	1	311	1	µS/cm
M-Alkalinity (pH 4.5)	290	2	276	2	290	2	159	2	mg/L as CaCO3
H	7.72	N/A	7.83	N/A	7.6	N/A	7.86	N/A	pН
Total Hardness (as CaCO3)			416	0.1	438	0.1	276	0.1	mg/L
Total Phosphorus (as P)			0.267	0.002	0,171	0,002	0.624	0.002	mg/L
Sample Description Lab ID	OW7 - A 1017107		OW7 1017		OW8 - A 1017109		OW1		
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	0.026	0.01	<0.01	0.01	0.015	0.01	<0.01	0.01	mg/L
Conductivity	478 [474]	1	154	1	447	1	650	1	µS/cm
M-Alkalinity (pH 4.5)	236 [235]	2	90.7	2	225	2	297	2	mg/L as CaCO3
рН	7.89 [7.91]	N/A	8.24	N/A	7.71	N/A	7.57	N/A	pH
Total Hardness (as CaCO3)	426	0.1	118	0.1	382	0.1	441	0.1	mg/L
Total Phosphorus (as P)	1.05	0.02	0,006 [0.0048]	0.002	0.99	0.02	0.165	0.002	mg/L
Sample Description Lab ID	OW1 1017		OW1 1017		OW1 1012		South 1017	Contraction of the local data	
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Ammonia (as N)	<0.01	0.01	0.583	0.01	0.017	0.01	<0.01	0.01	mg/L
Apparent Colour							486	1	TCU
3icarbonate					276	1	149	1	mg/L as CaCO3
Carbonate					1.2	1	<1	1	mg/L as CaCO3

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CERTIFICATE OF ANALYSIS

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Sample Description Lab ID	OW11 - C 1017111			OW12 - A 1017112		OW13 - A 1017113		South pond 1017114	
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Conductivity	237	1	326	1	581	1	261	1	μS/cm
M-Alkalinity (pH 4.5)	64,9	2	177	2	277	2	150	2	mg/L as CaCO3
Orthophosphate (as P)							<0.005	0.005	mg/L
рН	8.85	N/A	7.79	N/A	7.67	N/A	7,73	N/A	pН
Total Hardness (as CaCO3)	96.4	0.1	306	0.1	481	0.1	192	0.1	mg/L
Total Organic Carbon							5.28	0.4	mg/L
Total Phosphorus (as P)	0.0041	0.002	3.18	0.2	1.69	0,02	0.0202	0.002	mg/L
Turbidity							2.25 [2.2]	0.1	NTU

Sample Description Lab ID	Wash 1017	pond 7115	
General Chemistry	Result	MDL	Units
Ammonia (as N)	<0.01	0.01	mg/L
Apparent Colour	18.4 [22.2]	1	TCU
Bicarbonate	272	1	mg/L as CaCO3
Carbonate	1.9	1	mg/L as CaCO3
Conductivity	487	- 1	µS/cm
M-Alkalinity (pH 4.5)	274	2	mg/L as CaCO3
Orthophosphate (as P)	0.012	0.005	mg/L
pH	7.86	N/A	рН
Total Hardness (as CaCO3)	379	0.1	mg/L
Total Organic Carbon	5.52 [5.56]	0.4	mg/L
Total Phosphorus (as P)	0.0602	0.002	mg/L
Turbidity	7.59	0.1	NTU

CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 319270

Sample Description Lab ID	OW2		OW2 1017		OW4 1017		OW4 1017		
Metals	Result	MDL.	Result	MDL	Result	MDL.	Result	MDL	Units
Calcium	36800	500	6460	500	162000	500	133000	500	vg/L
Magnesium	23600	40	12500	40	27000	40	24900	40	ug/L
Sample Description Lab ID	OW4		OW5 1017		OW5		OW6		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	238000	500	127000	500	129000	500	85000	500	ug/L
Magnesium	62300	40	24200	40	28100	40	15600	40	ug/L
Sample Description Lab ID	OW7 - A 1017107		OW7 - C 1017108		OW8 - A 1017109		OW11 - A 1017110		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Calcium	132000	500	12400	500	123000	500	132000	500	ug/L
Magnesium	23400	40	21000	40	18200	40	26800	40	ug/L
Sample Description Lab ID	OW1 1017		OW12 - A 1017112		OW13 - A 1017113		South pond 1017114		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Numinum				14	San Alexand		<1	1	ug/L
Antimony							<0.5	0.5	ug/L
Arsenic							<1	1	ug/L
Barium							5.4	1	ug/L
Boron							6.2	2	ug/L
Calcium	6890	500	106000	500	132000	500	67000	500	ug/L
Copper							<1	1	ug/L
Iron							257	20	ug/L

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Sample Description Lab ID	OW11 - C 1017111			OW12 - A 1017112		OW13 - A 1017113		South pond 1017114	
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Magnesium	19200	40	9940	40	36900	40	5990	4	ug/L
Manganese							47.2	1	ug/L
Molybdenum							<1	1	ug/L
Nickel							1.2	1	ug/L
Potassium							4860	1	ug/L
Selenium							<1	-1	ug/L
Silver							<0.1	0.1	ug/L
Sodium							1020	1	ug/L
Strontium							82.5	1	ug/L
Zinc							1.9	1	ug/L

Sample Description Lab ID	Wash 1017		
Metals	Result	MDL.	Units
Aluminum	<1	1	ug/L
Antimony	<0.5	0.5	ug/L
Arsenic	1.2	1	ug/L
Barlum	50,4	1	ug/L
Boron	11	2	ug/L
Calcium	124000	500	ug/L
Соррег	<1	1	ug/L
Iron	1400	200	ug/L
Magnesium	16900	4	ug/L
Manganese	328	10	ug/L
Molybdenum	<1	1	ug/L
Nickel	2.2	1	ug/L



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Sample Description Lab ID	Wash 1017		
Metals	Result	MDL	Units
Potassium	5100	1	ug/L
Selenium	<1	1	ug/L
Silver	<0.1	0.1	ug/L
Sodium	3470	1	ug/L
Strontium	144	1	ug/L
Zinc	2.5	1	ug/L

Work Order Number: 319270

Sample Description Lab ID	OW2 - A 1017099		OW2 - C 1017100		OW4 - A 1017101		OW4 - B 1017102			
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	
Dissolved Aluminum	<2 [<2]	2	<2	2	<2	2	<2	2	ug/L	
Dissolved Antimony	<0.5 [<0.5]	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L,	
Dissolved Arsenic	2,2 [2.4]	1	<1	1	<1	1	<1	1	ug/L	
Dissolved Barium	15.1 [15.2]	1	2.2	1	42.6	1	54.4	1	ug/L	
Dissolved Boron	390 [387]	2	193	2	9.4	2	3.1	2	ug/L	
Dissolved Calcium	21500 [22100]	50	6300	50	156000	500	134000	500	ug/L	
Dissolved Copper	<1 [<1]	1	<1	1	<1	1	1	1	ug/L	
Dissolved Iron	760 [690]	200	80	20	190	20	140	20	ug/L	
Dissolved Magnesium	17200 [17900]	4	13100	4	22300	4	20900	4	ug/L	
Dissolved Manganese	38.6 [38.8]	1	11.4	1	37.6	1	<1	1	ug/L	
Dissolved Molybdenum	4,9 [4.8]	1	5.1	1	<1	1	<1	1	ug/L	

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Sample Description Lab ID	OW2		OW2 1017			OW4 - A 1017101		OW4 - 8 1017102	
Metals (Dissolved)	Result	MDL	Result	MDL.	Result	MDL.	Result	MDL	Units
Dissolved Potassium	4470 (4630)	100	1230	100	2920	100	980	100	ug/L
Dissolved Selenium	<1 [<1]	1	<1	1	1.4	1	<1	1	ug/L
Dissolved Silver	<0.1 [<0.1]	0,1	<0,1	0,1	<0,1	0,1	<0,1	0.1	ug/L
Dissolved Sodium	36900 [38400]	100	26500	100	9040	100	23300	100	ug/L
Dissolved Strontlum	418 (418)	1	31.2	1	200	1	158	1	ug/L
Dissolved Zinc	<1 [2.9]	1	1.3	1	2.9	1	3.2	1	ug/L
Sample Description Lab ID	OW4 1017		OW: 1017		OW:		OW0 1017		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0,5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	32.2	1	46.1	1	34.5	1	41	1	ug/L
Dissolved Boron	3	2	6.7	2	6.7	2	5.9	2	ug/L
Dissolved Calcium	118000	500	123000	500	128000	500	72100	500	ug/L
Dissolved Copper	<1	1	<1	1	1.2	1	<1	1	ug/L
Dissolved Iron	120	20	130	20	130	20	75	20	ug/L
Dissolved Magnesium	24800	4	21200	4	24600	4	10600	4	ug/L
Dissolved Manganese	<1	1	1.6	1	1.7	1	4.8	1	ug/L
Dissolved Molybdenum	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Potassium	850	100	5030	100	3250	100	3050	100	ug/L
Dissolved Selenium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Silver	<0.1	0,1	<0,1	0.1	<0.1	0.1	<0.1	0.1	ug/L



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Sample Description Lab ID	OW4 1017			OW5 - A 1017104		OW5 - B 1017105		OW6 - A 1017106	
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Sodium	17600	100	14900	100	27500	100	4420	100	ug/L
Dissolved Strontium	126	1	138	1	146	1	85.5	1	ug/L
Dissolved Zinc	16.5	1	3.5	1	25.8	1	2.7	1	ug/L
Sample Description Lab ID	OW7 - A 1017107		OW. 1017		OW8		OW1 1013		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	<2	2	ug/L.
Dissolved Antimony	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	51.3	1	3.3	1	16.9	1	38.9	1	ug/L
Dissolved Boron	3.8	2	13	2	6.2	2	6.6	2	ug/L
Dissolved Calcium	108000	500	12600	50	110000	500	130000	500	ug/L
Dissolved Copper	1	1	<1	1	<1	1	1	1	ug/L
Dissolved Iron	110	20	930	200	120	20	140	20	ug/L
Dissolved Magnesium	16000	4	17600	4	12900	4	25100	4	ug/L
Dissolved Manganese	<1	1	176	1	1.6	1	<1	1	ug/L
Dissolved Molybdenum	<1	1	2.9	1	<1	1	<1	1	ug/L
Dissolved Potassium	1660	100	850	100	870	100	3360	100	ug/L
Dissolved Selenium	<1	1	<1	1	<1	1	<1	1	ug/L
Dissolved Silver	<0.1	0,1	<0,1	0.1	<0,1	0.1	<0,1	0,1	ug/L
Dissolved Sodium	3200	100	2810	100	2400	100	29700	100	ug/L
Dissolved Strontium	128	1	11.8	1	154	1	147	1	ug/L
Dissolved Zinc	4	1	2.1	1	1.8	1	26.9	1	ug/L

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Sample Description Lab ID	OW1 1013	1-C 7111	OW1 1017		OW1 1017		
Metals (Dissolved)	Result	MDL	Result	MDL	Result	MDL	Units
Dissolved Aluminum	<2	2	<2	2	<2	2	ug/L
Dissolved Antimony	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dissolved Arsenic	<1	1	<1	1	<1	1	ug/L
Dissolved Barium	3.2	1	4.5	1	75,3	1	ug/L
Dissolved Boron	12	2	2.9	2	<2	2	ug/L
Dissolved Calcium	6750	50	86900	500	113000	500	ug/L
Dissolved Copper	<1	1	<1	1	<1	1	ug/L
Dissolved Iron	62	20	100	20	120	20	ug/L
Dissolved Magnesium	17100	4	6370	4	31700	4	ug/L
Dissolved Manganese	50.6	1	<1	1	<1	1	ug/L
Dissolved Molybdenum	5.4	1	<1	1	<1	1	ug/L
Dissolved Potassium	3250	100	1360	100	1240	100	ug/L
Dissolved Selenium	<1	1	<1	1	<1	1	ug/L
Dissolved Silver	<0.1	0.1	<0.1	0,1	<0.1	0.1	ug/L
Dissolved Sodium	26400	100	1370	100	3480	100	ug/L
Dissolved Strontium	4.4	1	133	1	153	1	ug/L
Dissolved Zinc	1.1	1	2.4	1	3	1	ug/L
Sample Description	044		OW		0₩4		OW

Sample Description Lab ID	OW2 - A 1017099		OW4 - A 1017101		OW4 - B 1017102		OW5 - A 1017104		
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F2 (C10-C16)	<90	90	<70	70	<60	60	<80	80	ug/L
F3 (C16-C34)	<90	90	93	70	<60	60	<80	80	ug/L
F4 (C34-C50)	<90	90	<70	70	<60	60	<80	80	ug/L

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Sample Description Lab ID	OW: 1017					OW4 - B 1017102		OW5 - A 1017104	
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
1,4-dichlorobenzene-d4 (Surr.)	104	N/A	103	N/A	103	N/A	104	N/A	% Rec
o-Terphenyl (Surr.)	68.1	N/A	90.8	N/A	76.4	N/A	52.9	N/A	% Rec
undecane (Surr.)	92.7	N/A	46.8	N/A	93.9	N/A	88.3	N/A	% Rec
Sample Description Lab ID	OW5 - B 1017105		OW0 1017		OW1 1017		OW7 1017		
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F2 (C10-C16)	<70	70	<80	80	<70	70	<50	50	ug/L
F3 (C16-C34)	<70	70	96	80	<70	70	<50	50	ug/L
F4 (C34-C50)	<70	70	<80	80	<70	70	<50	50	ug/L
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
1,4-dichlorobenzene-d4 (Surr.)	103	N/A	105	N/A	105	N/A	105	N/A	% Rec
o-Terphenyl (Surr.)	64.2	N/A	50.5	N/A	62.8	N/A	68.8	N/A	% Rec
undecane (Surr.)	92.6	N/A	91.1	N/A	86	N/A	89.6	N/A	% Rec
Sample Description Lab ID	OW8 1017		OW1 1017		OW1 1017		OW1 1017		
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20	20	<20	20	ug/L
F2 (C10-C16)	<80	80	<60	60	<60	60	<60	60	ug/L
F3 (C16-C34)	<80	80	<60	60	79	60	<60	60	ug/L
F4 (C34-C50)	<80	80	<60	60	65	60	<60	60	ug/L



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Sample Description Lab ID	OW1			11 - A 7110	OW1 1017			2-A 7112	
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL.	Result	MDL	Units
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A	NA
1,4-dichlorobenzene-d4 (Surr.)	105	N/A	103	N/A	104	N/A	105	N/A	% Rec
o-Terphenyl (Surr.)	66.3	N/A	66.3	N/A	82.4	N/A	72.8	N/A	% Rec
undecane (Surr.)	93.3	N/A	91.6	N/A	94.4	N/A	89.5	N/A	% Rec
Sample Description Lab ID	OW1 1013			1 pond 7114	Wash 1017				
Petroleum Hydrocarbons	Result	MDL	Result	MDL	Result	MDL	Units		
F1 (C6-C10) - Less BTEX	<20	20	<20	20	<20 [<20]	20	ug/L		
F1 (C6-C10) Incl. BTEX	<20	20	<20	20	<20 [<20]	20	ug/L		
F2 (C10-C16)	<50	50	<70	70	<60	60	ug/L		
F3 (C16-C34)	<50	50	<70	70	<60	60	ug/L		
F4 (C34-C50)	<50	50	<70	70	<60	60	ug/L		
Baseline @ C50	Yes	N/A	Yes	N/A	Yes	N/A	NA		
1,4-dichlorobenzene-d4 (Surr.)	105	N/A	105	N/A	107 [107]	N/A	% Rec		
o-Terphenyl (Surr.)	71.5	N/A	76,4	N/A	87.9	N/A	% Rec		
undecane (Surr.)	76.3	N/A	96	N/A	92 [91.8]	N/A	% Rec		
Sample Description Lab ID	OW:			4 - A 7101	OW/ 1017	4 - B 7102		5 - A 7104	
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Dissolved Solids	210 [210]	6	450	20	376	6	362	6	mg/L



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Sample Description Lab ID	OW5 1017		OW 1017		OW7 1017		OW 101	7 - C 7108	
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Dissolved Solids	422	6	193	10	315	20	98	6	mg/L
Sample Description Lab ID	OW8 - A 1017109		OW11 - A 1017110		OW11 - C 1017111		OW1 1017	2-A 7112	
Solids	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Total Dissolved Solids	325	20	434	6	146	6	250	30	mg/L.
Sample Description Lab ID	OW1 1017		South 1017		Wash 1017				
Solids	Result	MDL.	Result	MDL	Result	MDL	Units		
Total Dissolved Solids	380	20	166	6	326	6	mg/L		
Sample Description Lab ID	OW2 1017			OW4 - A 1017101		4-В 102	OW 1013	5 - A 7104	
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Benzene	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Ethylbenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0,5	0.5	ug/L
Toluene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
m+p-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1-Trichloroethane	<0,5	0,5	<0.5	0.5	<0.5	0,5	<0,5	0,5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
			<0.5	0.5		0.5	<0.5	0.5	ug/L

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Sample Description Lab ID	OW2 1017		OW- 1013		OW4 - B 1017102		OW5 - A 1017104		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
1,1-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromoethane	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
1,2-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane-d4 (Surr)	102	N/A	103	N/A	94.4	N/A	107	N/A	% Rec
1,2-Dichloropropane	<0.5	0,5	<0,5	0,5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	89.8	N/A	97.4	N/A	94.9	N/A	96.5	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	<30	30	ug/L
Bromomethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Chloroform	<1	1	<1	1	<1	1	<1	1	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dichlorod fluoromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	<2	2	<2	2	<2	2	ug/L,
n-Hexane	<5	5	<5	5	<5	5	<5	5	ug/L
Styrene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Tetrachloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene-d8 (Surr.)	105	N/A	106	N/A	101	N/A	103	N/A	% Rec
Trans-1,2-dichloroethylene	<0.5	0.5	<0,5	0.5	<0.5	0.5	<0.5	0.5	ug/L

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Sample Description Lab ID	OW: 1017		OW- 1013		OW4 1017		OW! 1017		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL.	Result	MDL	Units
Trans-1,3-dichloropropene	<0.5	0,5	<0,5	0,5	<0,5	0.5	<0,5	0.5	ug/L
Trichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichlorofluoromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Vinyl chloride	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Sample Description Lab ID	OW5 - B 1017105		OW 1012		OW. 1017		OW/ 1017		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL.	Result	MDL.	Units
Benzene	<0.1	0.1	<0.1	0.1	0.17	0.1	<0.1	0.1	ug/L
Ethylbenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
m+p-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethane	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromoethane	<0.2	0.2	<0,2	0.2	<0.2	0.2	<0,2	0,2	ug/L
1,2-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0.5	<0.5	0,5	<0.5	0.5	<0.5	0,5	ug/L.
1,2-Dichloroethane-d4 (Surr)	110	N/A	112	N/A	114	N/A	113	N/A	% Rec
1,2-Dichloropropane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L

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Whitewater Hydrogeology Ltd.

Sample Description Lab ID	OW5 - B 1017105		OW6 - A 1017106		OW7 - A 1017107		OW7 - C 1017108		
Volatile Organic Compounds	Result	MDL	Result	MDL.	Result	MDL	Result	MDL	Units
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	102	N/A	103	N/A	101	N/A	102	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	<30	30	ug/L
Bromomethane	<0,5	0.5	<0.5	0.5	<0,5	0,5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0,2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Chloroform	<1	1	<1	1	<1	1	<1	1	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dichlorodifluoromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl isobutył ketone (MIBK)	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	<2	2	<2	2	<2	2	ug/L
n-Hexane	<5	5	<5	5	<5	5	<5	5	ug/L
Styrene	<0.5	0.5	<0.5	0.5	<0.5	0,5	<0,5	0.5	ug/L
Tetrachloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Totuene-d8 (Surr.)	101	N/A	102	N/A	101	N/A	97.3	N/A	% Rec
Trans+1,2-dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/t.
Trans-1,3-dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichlorofluoromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Vinyl chloride	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L



Whitewater Hydrogeology Ltd.

Work Order Number: 319270

Sample Description	OW8 - A 1017109		OW11 - A 1017110		OW11 - C 1017111		OW12 - A 1017112		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
Benzene	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L
Ethylbenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
m+p-Xylene	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0,5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromoethane	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
1,2-Dichlorobenzene	<0.5	0,5	<0,5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane-d4 (Surr)	121	N/A	119	N/A	118	N/A	115	N/A	% Rec
1,2-Dichloropropane	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	107	N/A	106	N/A	105	N/A	102	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	<30	30	ug/L
Bromomethane	<0.5	0.5	<0.5	0.5	<0,5	0.5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Chloroform	<1	1	<1	1	<1	1	<1	1	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0,5	ug/L

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CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 319270

Sample Description Lab ID	OW8 - A 1017109		OW11 - A 1017110		OW11 - C 1017111		OW12 - A 1017112		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units
cis-1,2-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Dichlorodifluoromethane	<2	2	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	<20	20	<20	20	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	<2	2	<2	2	<2	2	ug/L
n-Hexane	<5	5	<5	5	<5	5	<5	5	ug/L
Styrene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0,5	ug/L
Tetrachloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene-d8 (Surr.)	94.5	N/A	96	N/A	96.8	N/A	96.6	N/A	% Rec
Trans-1,2-dichloroethylene	<0.5	0.5	<0,5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trans-1,3-dichloropropene	<0.5	0,5	<0,5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichlorofluoromethane	<5	5	<5	5	<5	5	<5	5	ug/L
Vinyl chloride	<0.1	0.1	<0.1	0.1	<0,1	0.1	<0.1	0.1	ug/L
Sample Description	OW1		South pond		Wash				

Lab ID	1017	113	1017	/114	1017		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL.	Units
Benzene	0.17	0.1	<0.1	0,1	<0.1	0.1	ug/L
Ethylbenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Toluene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
m+p-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0,5	ug/L
o-Xylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Total Xylenes	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L

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TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Whitewater Hydrogeology Ltd.

Work Order Number: 319270

Sample Description Lab ID	OW1 1017		South 1017	0.759	Wash 1017		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Units
1,1,1-Trichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1,2-Trichloroethane	<0.5	0,5	<0.5	0,5	<0.5	0.5	ug/L
1,1-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,1-Dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dibromoethane	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
1,2-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,2-Dichloroethane-d4 (Surr)	128	N/A	130	N/A	129	N/A	% Rec
1,2-Dichloropropane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,3-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1,4-Dichlorobenzene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
1-Bromo-4-fluorobenzene (Surr.)	110	N/A	110	N/A	109	N/A	% Rec
Acetone	<30	30	<30	30	<30	30	ug/L
Bromomethane	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Carbon tetrachloride	<0.2	0.2	<0.2	0.2	<0.2	0.2	ug/L
Chlorobenzene	<0.5	0,5	<0.5	0.5	<0.5	0.5	ug/L
Chloroform	<1	1	<1	1	<1	1	ug/L
cis - + trans-1,3-Dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
cis-1,2-Dichloroethylene	<0.5	0.5	<0,5	0,5	<0.5	0.5	ug/L
Dichlorodifluoromethane	<2	2	<2	2	<2	2	ug/L
Dichloromethane	<5	5	<5	5	<5	5	ug/L
Methyl ethyl ketone	<20	20	<20	20	<20	20	ug/L
Methyl isobutyl ketone (MIBK)	<20	20	<20	20	<20	20	ug/L
Methyl tert-butyl ether (MTBE)	<2	2	<2	2	<2	2	ug/L
n-Hexane	<5	5	<5	5	<5	5	ug/L

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Whitewater Hydrogeology Ltd.

Work Order Number: 319270

Sample Description Lab ID	OW1 1017		South 1017		Wash 1017		
Volatile Organic Compounds	Result	MDL	Result	MDL	Result	MDL	Units
Styrene	<0.5	0.5	<0.5	0.5	<0,5	0,5	ug/L,
Tetrachloroethylene	<0.5	0,5	<0.5	0.5	<0.5	0.5	ug/L
Toluene-d8 (Surr.)	91.2	N/A	92.2	N/A	91.6	N/A	% Rec
Trans-1,2-dichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L,
Trans-1,3-dichloropropene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichloroethylene	<0.5	0.5	<0.5	0.5	<0.5	0.5	ug/L
Trichlorofluoromethane	<5	5	<5	5	<5	5	ug/L
Vinyl chloride	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

F1-BTEX, F2-NAPTH, and F3-PAH: BTEX and selected PAHs have been subtracted from the appropriate fractions only if the parameter names are F1-BTEX, F2-NAPTH, and F3-PAH, otherwise these compounds have not been subtracted from their respective fractions.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

Total Petroleum Hydrocarbons: For the analysis of Total Petroleum Hydrocarbons, the Chromatogram descended to the baseline at or before nC50; if F4G results are reported, they are not to be added to the C6 to C50 results.

Quality Control: All associated Quality Control data is available on request.

APPENDIX C

COPY OF PERMIT TO TAKE WATER AND 2017 WATER TAKING RESULTS

Shebuma Pit 2

the state of the state					Bistigtune Pit PT	TW No. \$218-ARREN	CONTRACTOR OF THE OWNER.	1944	CALL CONTINUES	and the second second	1
Bay on the second	Entry Taking Hill	Matha	Day of the	Perfor Tenning, Rd.	Contractor Lot	E Ser	States Transmitte	Method	they .	Barty Tuting B.	Mathead
January 1, 2017	8	inclosed .	April 1, 2017	0	mater and	July 1, 2017		metered	October 1, 2017	0	metered
January 2, 2017		metered	April 2, 2017	0	metered	July 2, 2017		motorod	October 2, 2017	3,307,520	metered
January J. 2017		instered	April 3, 2017	0	metered	July 5, 3017		netword	October 8, 201)	1,489,520	metered
January 4, 2017	9	metared	April 4, 2017	•	instered	July 4, 2017		metered	Octobert # 2017	2,383,480	metered
Jonuary 5, 2017	0	metered	April 3, 2017	0	metered	Auby 5, 2017		metered	Or judges \$, 2017	3,247,400	metered
January 6, 2017		metered	April 6, 2017	0	meteral	July 6, 2017		meterad	October 6, 2017 October 7, 2017	309,960	metered
Jonuary 7_ 2017	0	metered	April 7, 2017	0	metered	July 7_ 2017		environd environd		0	metered
January 8, 2017	0	metaved	April 8, 2017		metered	July 8, 2017		increased in the second	October 1, 2017 October 9, 2017		metered
January 9, 2017	0	metered	April 9, 2017		factored	3.dy 9, 2917					metatad
January 10, 2017		metared	April 10, 7017 April 11, 2017	0	metered metered	Fully 11, 2017 Fully 11, 2017		metered metered	Ortuber 10, 201 F Ortuber 11, 201 F	1,757,100	Peritran
fanuary 11, 2017 January 12, 2017		meterod	April 12, 2037	ě	meter od	Fuly 12, 2017		metered	Orbaber 11, 2017	1,050,840	metrund
January 13, 2017		metered	Auri 11, 2017		meter of	Refy 12, 2017		material	Ortober 13, 2017	1.674,540	metered
		metwood	April 14, 201	ě	meter en	Fuly 14, 2017		metered	Orbeher 16, 2017	D	metered
femaley 14, 2017 January 15, 2017		metored	April 15, 2017		metered	huly 15, 2017		metered	Cataber 15, 2017	0	metered
famuary 16, 2017	0	metered	April 16, 2017		metered	huly 16, 2017		metered	October 16, 2017	1,731,020	metmod
January 17, 2017	0	metered	April 17, 2017	ě	metered	huly 17, 2017	0	metered	Ortober 17, 3017	2.438.100	metered
January 18, 2017	ő	metered	April 18, 2017	0	metered	July 14, 2017		metered	Catabor 18, 2017	2, 142,500	petred.
January 19, 2017	0	metaned	April 19, 2017		metered	July 19, 2017		network	October 19, 2017	464,940	metered
famuary INL 2017		material	April 20, 2017	0	meter ad	hely 20, 2017		metered	October 70, 2017	3,277,640	millered
femany 21, 2017	p	Instant	Auri 21, 2017	0	meter ed	July 21, 2017		metered 1	Chabber 21, 201	0	metmod
Samuery 32, 2017	0	metered	April 22, 2017	0	metered	July 22, 2017		metered	Chitober 21, 2017		tertired.
famoury 21, 2017	0	Instant	Aur£33, 2017	0	meter ed	July 23, 2017		metered	Chabber 23, 2017	753,560	metrod
Servery 14, 2017	0	metered	April 34, 2017	•	meterad	July 24, 2017		metered	Catober 14, 2017	1,271,960	metered
famuary 25, 2017	0	metered	April 25, 2017	0	metered	July 25, 2017	0	metered	Extenser 25, 2013	0	metred
January 26, 2017	0	metered	April 14, 2017	0	meterad	hely 26, 1017		metered	Ortober 26, 2017	0	meteoni
famuary 37, 2017	0	metered	April 27, 2017	٥	metered	July 27, 2017	•	metered	Ch tober 27, 2017	0	metmod
farmery 28, 2017	0	metered	April 33, 7017	•	metered	Fully 28, 2017		metered	Catoler 28, 2017	0	meteral
femalery 39, 2017	0	metered	April 29, 2013	٥	meterod	Fuly 29, 2017	•	metered	Chabber 29, 2017	0	metmod
Annuary 30, 2017	0	metered	April 10, 2017	•	metered	Nely 30, 2017	e	enstated	October 30, 2017	0	metered
femany 31, 2017	•	network	May 3, 2017	0	metered	July 31, 2017	0	metered	Citabler 31, 2017	2, 342,500	metred
February 1, 2017	0	metared	May 3, 3017	•	metered	August 1, 2017	•	evetered	Nevember 1, 2017	0	persisten .
February 2, 2017	0	metered	May 3, 2017	0	metered	August 2, 2017	0	metered	November 3, 3887	1,765,260	period .
February 3, 2017	0	metared	May 4, 2017	•	metered	August 8, 2017	0	motored	Nevember 3, 2017	661,500	metered
February 4, 2017	0	metered	May 1, 2017	•	meterad	August #, 2017	•	metered	Nevember 4, 2017	1,629,180	instantes a
February 5, 2017	0	metered	May 6, 2017	0	meter ed	August 5, 2017	0	motored	Hevenber 5, 2017	0	feeteren (
February 6, 201	0	metered	May 7, 2017	0	metered	August 6, 2037	•	herstem	November 6, 2017	1,768,800	invertees.
February 7, 2017	•	metered	May 8, 2017	0	instanted.	August 7, 2017	0	metered	Hovember 7, 2017	869,400	meterad
February 8, 2017	•	metered	May 9, 2017		metered	August 8, 2017	0	metered	November 8, 2017	0	Inclusion
February 9, 2017		metered	Mey 10, 2017	0	metered	August 9, 2017		metered	November 9, 1017	0	metaved
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Denise Holmes

From:	OMBReview (MMA) <csc_ombreview@ontario.ca></csc_ombreview@ontario.ca>
Sent:	Tuesday, February 27, 2018 10:56 AM
То:	OMBReview (MMA)
Subject:	Proclamation of the Building Better Communities and Conserving Watersheds Act, 2017 changes to the land use planning and appeal system
Attachments:	Proclamation of Bill 139.pdf; Proclamation du projet de loi 139.pdf

We are writing to provide an update on the *Building Better Communities and Conserving Watersheds Act, 2017*, which was passed by the Legislature on December 12, 2017.

In Effect Date

The changes the Act makes to the land use planning and appeal system will come into effect on April 3, 2018, as specified by proclamation.

This includes changes to:

- establish the Local Planning Appeal Tribunal (the Tribunal) as the province-wide appeal body for land use planning matters;
- improve the hearing process at the Tribunal;
- establish the Local Planning Appeal Support Centre to provide legal and planning support services to eligible Ontarians for matters before the Tribunal;
- limit the Tribunal's ability to overturn municipal decisions that adhere to municipal official plans, provincial plans and the Provincial Policy Statement;
- give municipalities more control over local planning, resulting in fewer decisions being appealed; and
- shelter certain major planning decisions from appeal.

These changes are in response to the province-wide consultation undertaken as part of the <u>Ontario</u> <u>Municipal Board Review</u>.

Regulations

To facilitate implementation of the *Building Better Communities and Conserving Watersheds Act,* 2017, several new and amended regulations have been proposed.

Proposals for the regulations under the Act were posted on Ontario's Regulatory and Environmental Registries for a 45-day public consultation period from December 7, 2017 to January 21, 2018.

We anticipate providing you with an update on the proposed regulation changes and finalized approach to transition in the near future.

Questions

If you have any questions about the changes to the land use planning and appeal system, please email <u>OMBReview@ontario.ca</u>.

Sincerely,

Mariela Orellana, Director (Acting) Agency and Tribunal Relations Branch Ministry of the Attorney General

Vous trouverez ci-dessous des renseignements à jour sur la *Loi de 2017 visant à bâtir de meilleures collectivités et à protéger les bassins hydrographiques* qui a été adoptée par l'Assemblée législative le 12 décembre 2017.

Date d'entrée en vigueur

Les changements apportés par la Loi au système d'aménagement du territoire et à son mécanisme d'appel entreront en vigueur le 3 avril 2018 comme le précise la proclamation.

Ces changements visent notamment à :

- établir le Tribunal d'appel de l'aménagement local (Tribunal) comme organisme d'appel provincial chargé de traiter des questions d'aménagement du territoire à l'échelon local;
- améliorer le processus d'audience du Tribunal;
- créer le Centre d'assistance pour les appels en matière d'aménagement local chargé de fournir aux Ontariens et Ontariennes admissibles des conseils juridiques et de l'aide en matière d'aménagement pour les questions dont est saisi le Tribunal;
- limiter la capacité du Tribunal d'annuler les décisions municipales qui se conforment aux plans officiels, aux plans provinciaux et à la Déclaration de principes provinciale;
- donner aux municipalités plus de pouvoir en matière d'aménagement local afin qu'un moins grand nombre de décisions fassent l'objet d'un appel;
- soustraire du processus d'appel certaines décisions importantes en matière d'aménagement.

Ces changements font suite à la consultation menée à l'échelle de la province dans le cadre de l'<u>Examen de la Commission des affaires municipales de l'Ontario</u>.

Règlements

Pour faciliter la mise en œuvre de la *Loi de 2017 visant à bâtir de meilleures collectivités et à protéger les bassins hydrographiques*, le gouvernement a prévu de prendre ou de modifier plusieurs règlements.

Les propositions visant les règlements pris en application de la Loi ont été affichées sur le Registre environnemental et le Registre de la réglementation de l'Ontario pendant une période de consultation publique de 45 jours, du 7 décembre 2017 au 21 janvier 2018.

Nous devrions pouvoir vous fournir bientôt des précisions sur les règlements ainsi que l'approche sur le plan de transition adopté.

Questions

Si vous avez des questions concernant les changements au système d'aménagement du territoire et à son mécanisme d'appel, veuillez envoyer un courriel à <u>OMBReview@ontario.ca</u>.

Veuillez agréer l'expression de nos sentiments distingués.

La directrice,

Laurie Miller Direction des politiques provinciales d'aménagement Ministère des Affaires municipales La directrice (int.),

Mariela Orellana Direction des relations avec les organismes et les tribunaux Ministère du Procureur général

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To: <u>dhofmes@melancthontownship.ca</u> From: csc_ombreview@ontario.ca

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Ministry of Municipal Affairs

Provincial Planning Policy Branch 777 Bay Street, 13th Floor Toronto ON M5G 2E5 Tel. 416-585-6014 Fax 416-585-6870

Ministry of the Attorney General

Agency and Tribunal Relations Division 720 Bay St, 3rd Floor Toronto ON M7A 2S9 Tet. 416-326-3723 Fax 647-723-2051 Ministère des Affaires municipales

Direction des politiques provinciales d'aménagement 777, rue Bay, 13^e étage Toronto ON M5G 2E5 Tél. 416-585-6014 Téléc. 416-585-6870



Ministère du Procureur général

Direction des relations avec les organismes et les tribunaux 720, rue Bay, 3° étage Toronto ON M7A 2S9 Tél. 416-326-3723 Tél. 647-723-2051

Date: February 27, 2018

Subject: Proclamation of the Building Better Communities and Conserving Watersheds Act, 2017 changes to the land use planning and appeal system

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Sincerely,

Laurie Miller, Director Provincial Planning Policy Branch Ministry of Municipal Affairs Mariela Orellana, Director (Acting) Agency and Tribunal Relations Branch Ministry of the Attorney General

Denise Holmes

From:	Johnson, William (MNRF) <william.johnson@ontario.ca></william.johnson@ontario.ca>
Sent:	Thursday, March 08, 2018 4:18 PM
То:	dholmes@melancthontownship.ca
Subject:	FYI - Sunday Gun Hunting - Township of Melancthon

Denise,

This email is to inform you that in response to the Township of Melancthon's request to be added to the list of municipalities that allow for Sunday gun hunting, the ministry has amended the regulation for Sunday gun hunting. The new Sunday gun hunting provision for this area will come into effect April 1, 2018.

If you have any questions, please do not hesitate to touch base.

Thank you very much,

Will

William Johnson | A/ Legislative Specialist | Wildlife Section | Species Conservation Policy Branch | Ministry of Natural Resources and Forestry | 300 Water Street, 5th Floor North Tower, Peterborough, Ontario, K9J 3C7 | ph: 705-755-1373

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To: <u>dholmes@mclancthontownship.ca</u> From: <u>william.johnson@ontario.ca</u> Message Score: 1 My Spam Blocking Level: High

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NFO #12 MAR 1 5 2018



PRESS RELEASE

County of Dufferin 55 Zina Street Orangeville, ON L9W 1E5

For Immediate Release: March 7th, 2018

ILLEGAL DUMPING LEADING TO HAZMAT RESPONSES

Dufferin – Emergency officials are advising the public to be vigilant for anyone illegally dumping barrels, drums or garbage bags throughout the rural areas of Dufferin County. In recent weeks public works staff have discovered containers of hazardous materials that had been illegally dumped in ditches, roadways and on private property.

County Warden Paul Mills said that "Not only is this a serious risk to our environment, it poses a very real danger to staff and the public. This issue isn't just in Dufferin County. Our neighbouring rural municipalities are also seeing this type of crime being committed".

Anyone finding what appears to be an illegal dumpsite are advised to not touch anything and call 911 to report their findings. Emergency services will determine if there is a hazard and coordinate the appropriate cleanup of the site.

Anyone having information regarding illegal dumping is asked to call Crime Stoppers of Simcoe Dufferin Muskoka at 1-800-222-8477 or visit www.tipsubmit.com

For more information, please contact:

Pam Hillock, Clerk phillock@dufferincounty.ca 519.941.2816 ext. 2503

-30-



Dundalk District Agricultural Society

PO Box 497, Dundalk, ON N0C 1B0

facebook.com/Dundalkfairsociety dundalkfair.com

RECU/RECEIVED 0 1 -03- 2018

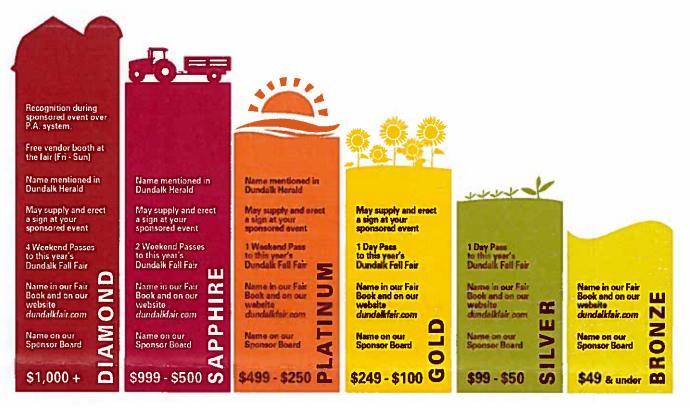
February 25, 2018

Dear Denise Holmes, Melancthon Township

Our annual fall fair will take place on September 7 - 9, 2018 at the Dundalk fair grounds. Our theme this year is "Sew It, Grow It, Show It".

The Dundalk Agricultural Society has been supporting the community since 1855. We put on several other events throughout the year, but our fall fair is the highlight and by far the largest event of them all. The fair is a community-minded, not-for-profit event run by a group of dedicated volunteers who strive to host an entertaining and educational weekend for all ages. The Dundalk Fall Fair is the longest running annual event in our community. With over 20 classes of exhibitor categories, including special sections for kids, youth and seniors, people have the opportunity to display and exhibit a multitude of items from horticulture, field crops, arts and crafts, baking and sewing and quilting. Other features of our fair include the 4-H club shows, the truck and tractor pull and the fair ambassador program.

Please help us to maintain these traditions and enhance our fall fair experience. We welcome businesses and individuals to support our efforts through our sponsorship program. The cost of organizing and promoting successful events is forever increasing, thus, our reliance upon generous donations grows each year. We recognize that sponsors are major contributors to the success and future of our fair. Your support and assistance is greatly appreciated. In return for your financial support, we provide as much promotion and reward as we possibly can. See the sponsorship levels below:



With sincerest thanks,

The Dundalk Agricultural Society

7:20

Mark Nicholls DDAS President

Kinbuly Steery () Kimberley Stacey

DDAS Secretary

Denise Holmes

From: Sent: To: Cc: Subject: Attachments: Everett Lusk <Everett.Lusk@vanharten.com> Tuesday, March 06, 2018 2:34 PM dholmes@melancthontownship.ca metz.homes@rogers.com; Adrian Maes Lot 14 con 2, OS Melancthon; PIN 34139-0079 R-LT14.METZ(19695-10)UTM2010-R-24X36.pdf

Hi Denise

I have attached a draft 2 part reference plan for your approval for the above property severance. If you need hard copies, please let me know. Cheers, Everett

LAND SHRVEYORS

and UNCINEERS

Everett Lusk, C.S.T.



www.vanharten.com 660 Riddell Road, Orangeville, ON, L9W 5G5 T 519-940-4110 x224 F 519-940-4113 E Everett.Lusk@vanharten.com

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To: <u>dholmes@melancthontownship.ca</u> From: <u>everett.lusk@vanharten.com</u> Message Score: 1 My Spam Blocking Level: High

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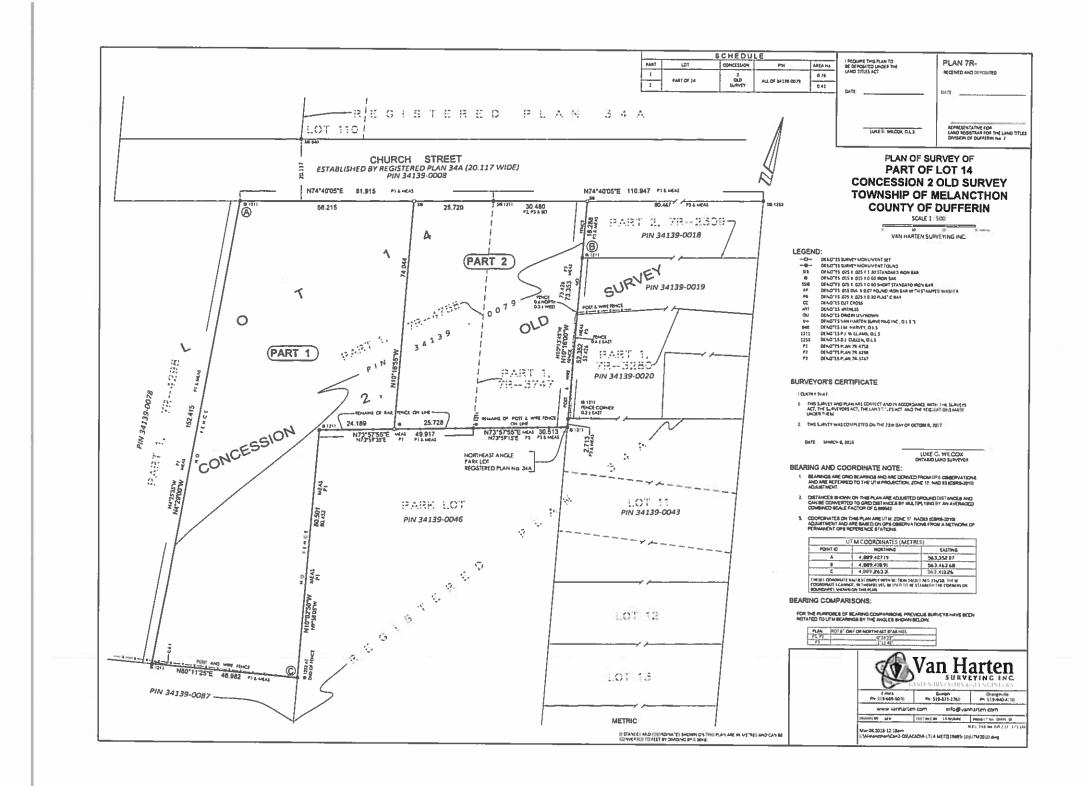
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> ACT #2_ MAR 1 5 2018

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Ph: (519) 925-5525 Fax: (519) 925-1110

TOWNSHIP OF MELANCTHON Committee of Adjustment 157101 Highway 10 Melancthon, Ontario L9V 2E6

NOTICE OF PUBLIC MEETING Application for Consent

File No. B1/17	
Date of Meeting: February 16, 2017	Time: 6:00 p.m.
Name of Owner/Applicant: David M	Metz
Location of Public Meeting: Council C	Chambers, 157101 Highway 10, Melancthon, ON, L9V 2E6
PROPOSED SEVERANCE: Part Lo	ot 14, Concession 2 O.S., Church Street
Existing Use: Vacant	Proposed Use: Residential
Road Frontage: 56.2 m.	Depth: 73.42 m.
Area: 0.41 ha.	
RETAINED PORTION: Part Lot 14	4, Concession 2 O.S., Church Street
Existing Use: Vacant	Proposed Use: Residential
Road Frontage: 56.2 m.	Depth: 152.42 m.
Area: 0.78 ha.	

The land is not the subject of an application under the Act for an Official Plan Amendment, Zoning By-law Amendment, or Minor Variance application.

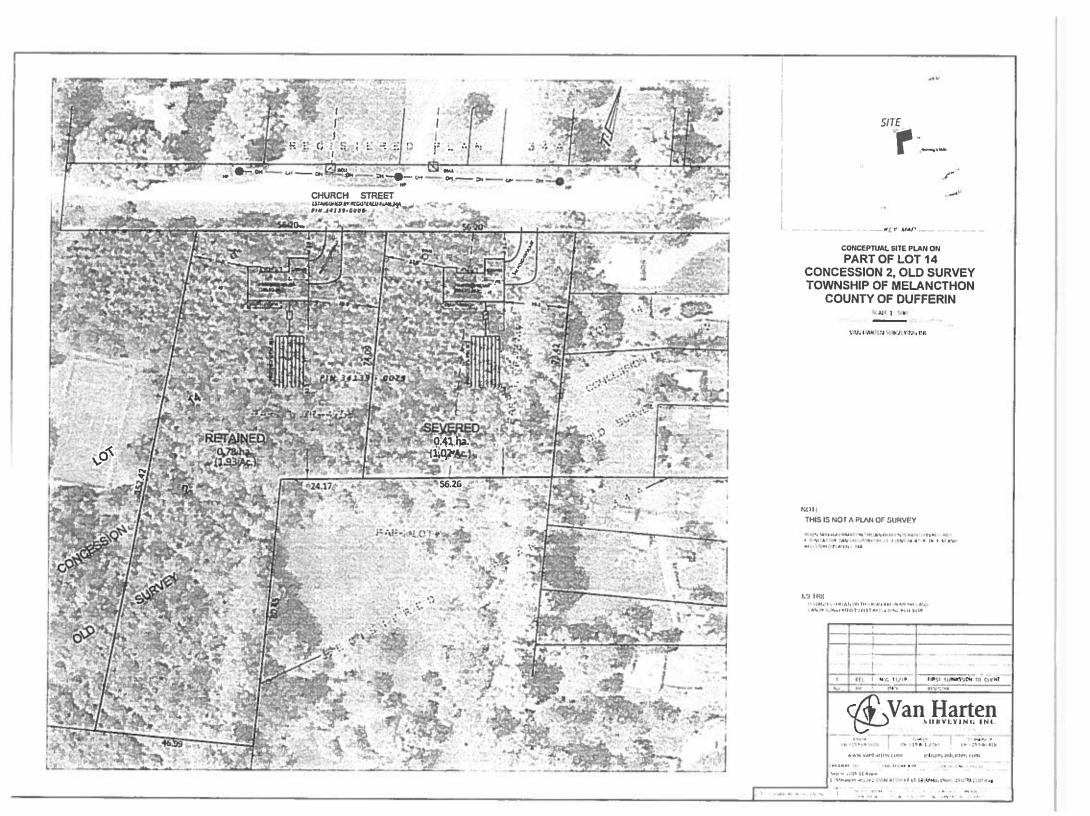
If you require additional information on this application, it may be obtained by contacting the Secretary-Treasurer at the above address during regular office hours.

If a person or public body that files an appeal of a decision of the Melancthon Township Committee of Adjustment in respect of the proposed consent does not make a written submission to the Committee of Adjustment before it gives or refuses to give a provisional consent. the Ontario Municipal Board may dismiss the appeal.

If you wish to be notified of the decision of the Committee of Adjustment in respect of the proposed consent, you must make a written request to the Committee of Adjustment, Township of Melancthon, 157101 Highway 10, Melancthon, Ontario, L9V 2E6.

Klauses Holona

Denise B. Holmes, Secretary-Treasurer



TOWNSHIP OF MELANCTHON - COMMITTEE OF ADJUSTMENT APPLICATION FOR CONSENT

NOTE TO APPLICANTS

One copy of this application form must be completed and filed for each parcel to be severed together with the sketch as required by the Schedule to Ontario Regulation 547/06, with the Secretary/Treasurer and be accompanied by a fee of \$800.00 + \$1000.00 deposit. Cheques made payable to the Township of Melancthon.

Completeness of the Application

SEVERANCE

4.

The information that must be provided by the applicant is prescribed in the Schedule to Ontario Regulation 547/06 made under the Planning Act. If the mandatory information and fee are not provided, the Committee of Adjustment will return the application or refuse to further consider the application until the information and fee have been provided.

The application form also sets out other information that will assist the Committee of Adjustment and others in their planning evaluation of the Consent Application. To ensure the quickest and most complete review, this information should be submitted at the time of the application. In the absence of this information, it may not be possible to do a complete review within the legislated time frame for making a decision. As a result, the application may be refused.

1.	Registered Owner's Name :	1392119	ONTARIO	LTD		
	Address:	PO BOX	33, SHEL	BURNE	LAV 3LB	
	E-mail Address:				1 7 3	
	Telephone Number: (Home)	519-925-1904	(Work) <u>519-28</u>	8-60 39(Fax)	519-925-669)
	Applicant's Name :	DAVID	METZ	114		
		129 BIRCH			L9V 2W3	
	E-mail Address:					
	Telephone Number: (Home)	519-925-1904	(Work) <u>519-28</u>	8-6039(Fax)	519-925-669	1
	Agent's Name:		_			
	Address:					•
	E-mail Address:					
	Telephone Number: (Home)		_(Work)	(Fax)		
	Send Correspondence to?	Owner ()	Applicant (- Ag	ent ()	
	- 1. M. M.	• •	••			
2.	Date of Application:	JAN	6-2017	-		
3.	Type of Transaction: (e.g. a			ot, a lot additi	ion, an easement,	a charg
	a leas	se or a correction	of title)			

Name of person(s) to whom the land or interest in land is to be transferred, charged or leased:

TO

1392119	ONTARIO	LTD.	

NEW

LOT

1

CREATE

5. Legal Description of Property:

Mu	nicipality	MELAN	ICTHON	1		· ·
Lot	(s) P A	AT LOT K	L Conc	ession CON	205	
Lot	(s)		Regis	tered Plan		
Part	(s)		Refer		IR 3747 P	ART ART
Stre	et Address	Cł	TURCH	ST.		
Roll	Number 221	9 000 001 1	2500 0000	_ Survey Attache	d - Yes 🕢 No	()
6. Are ther	e any easemen	ts or restrictive	covenants affe	cting the subject	property? Yes	No
7. If the ar	swer to Sectio	n 6 is yes, a des	cription of eac	ch easement or co	venant and its effect	ct.
	-			MENT/RIGHT-		1 metric units)
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Dept	h: <u>15</u>	2, 42 m				
Exist	ting Use:V	ACANT		Proposed Us	e: SINGLE F.	AMILY HOME
Exist	ting and propos	sed buildings an	d structures of	n land to be sever		
Exist	ing:	NONE				
		GLE FAN	ILY HO	ME ON	EACH LO	DT
			1	EVERED have?	- 20 - 10 - 20 - 20 - 20 - 20 - 20 - 20	
					a d	
Year	Round Munici	pal Road	V	Seasonal M	Iunicipal Road	
Onop Other	r, please specif	vance		Private Rig	ht-of-way	
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	Municipal Water	Communal Water	Private Water	Municipal Sewers	Communal Sewers	Private Sewers
Existing Proposed	() ()	() ()	() (🗸	() ()	() ()	

2

	ption of lands to			(<u>in metric units</u>		
Fronta	nge: 56	p.2m		Area:	0,78 ha	
- Depth	n: <u>152</u>	2,42m	<u>U</u>			
Existi	ing Use: <u>VA</u>	CANT		Proposed Use	SINGLE FAR	NILY HOME
Existi	ing and propose	d buildings and	f structures on	land to be retain	led:	
Existi	ing: NON	JE		II		
Propo	osed: Hou	SE YW	ATTAC	HED GAR	2A6E	
What f	type of access d	o the lands inte	ended to be R l	ETAINED have	?	
Unop	ncial Highway Round Municip en Road Allowa r, please specify	ance			ad /unicipal Road ght-of-way	
Servio	ces currently av	ailable, or to be	e available for	the RETAINEI	D parcel:	
	Municipal Water	Communal Water	Private Water	Municipal Sewers	Communal Sewers	Private Sewers
xisting roposed	()	() ()	()	()	()	
(b) Presen 0. Has the s 53 of the If the an	nt Zoning of the subject land even e Planning Act?	land: r been the subje Yes _ r file number of	ect of an applic	cation for approva	al of a plan of subdiv No of the application.	vision under Section
1. Has any	land been sever	red from the pa	rcel originally	acquired by the	owner of the subjec	t land?
2. If the ans followin	swer to Section	11 is "Yes", pl or each lot seve	ease indicate j ered:		ce on the required s	ketch and supply t
Grantee'	's Name:					
Relation	nship (if any) to	owner:				
Date of [Parcel Created:			Use of Pa	arcel:	
File Nur	mber :					

13. Is the subject land the subject of any other application under the Act, such as an application for an amendment to an official plan, a zoning by-law or a Minister's zoning order, an application for a minor variance or an approval of a plan of subdivision or a consent;

If the answer is yes, the file number of the application and the status of the application:

- 14. This application must be accompanied by a sketch showing the following, with any measurements shown in **metric units**:
 - (a) the boundaries and dimensions of any land abutting the subject land that is owned by the owner of the subject land;
 - (b) the approximate distance between the subject land and the nearest township lot line or landmark such as a bridge or railway crossing;
 - (c) the boundaries and dimensions of the subject land, the part that is intended to be severed and the part that is intended to be retained;
 - (d) the location of all land previously severed from the parcel originally acquired by the current owner of the subject land;
 - (e) the approximate location of all natural and artificial features (for example, buildings, railways, roads, watercourses, drainage ditches, bank of rivers or streams, wetlands, wooded areas, wells and septic

tanks)

that,

- (i) are located on the subject land and on land that is adjacent to it, and
- (ii) in the applicant's opinion, may affect the application;
- (f) the current uses of land that is adjacent to the subject land (for example, residential, agricultural or commercial);
- (g) the location, width and name of any roads within or abutting the subject land, indicating whether it is an unopened road allowance, a public travelled road, a private road or a right of way;
- (h) if access to the subject land will be by water only, the location of the parking and boat docking facilities to be used; and
- (i) the location and nature of any easement affecting the subject land.
- 15. Is the application consistent with policy statements issued under subsection 3(1) of the Act?

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- 16. Is the subject land within an area of land designated under any provincial plan or plans?
- 17. If the answer to question 16 is yes, briefly explain how this application either conforms with or does not conflict with any applicable provincial plan or plans:
- 18. If this application involves the creation of a non-farm lot within approximately 500 metres of livestock facilities and/or permanent manure storage facilities, a completed MDS I calculation form must be submitted with this application. If this application involves a new or expanded livestock facility and/or permanent manure storage facility, a completed MDS II calculation form must be submitted with this consent application.

UPON SUBMISSION OF THIS APPLICATION THE APPLICANT AGREES:

- 1. That the fee submitted with this application covers only routine processing costs (i.e. review by municipality). It is further understood and agreed that any additional costs or requirements with this application, including any additional information and processing requirements, or as may otherwise be required or incurred and charged to or by the municipality (i.e. planning, legal or engineering fees, OMB Hearing costs, agreements, special studies, other approvals or applications and any other related matters) will be my responsibility to provide to and/or reimburse the municipality for same. Failure to pay all associated costs may result in refusal of this application and/or collection by the municipality in like manner as municipal taxes, or any other means legally available to the municipality.
- 2. To pay the application fee in full prior to the processing of this application.
- 3. To allow the Committee of Adjustment to site inspect the property in consideration for this application.

Affidavit or Sworn Declaration

I.	DAVID	VELZ	of the	TOWN	of SHELBURNE

in the ______ of _____ solemnly declare that all the statements contained in this application and all the information provided is true, and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the CANADA EVIDENCE ACT.

Declared before me	Date: JAN 6-2017
at the Town of Shelburn	
in the <u>Country of Dufferin</u>	Signature of Applicant: BME
this 6th day of January	
2017 Cynthia Norsen Teylor, a Constant Province of Ontario, for Shepherd, C	Disyany, & King,
A Commissioner, etc.	and a first of the state

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Authorizations:

If the applicant is not the owner of the land that is the subject of this application, the written authorization of the owner that the applicant is authorized to make the application on his/her behalf, must be included with this form or the authorization set out below must be completed.

Authorization of Owner for Agent to Make Application and for Agent to Provide Personal Information

I, ______, am the owner of the land that is the subject of this application for consent and I authorize ________ to act as my agent for the purpose of this application and for the purposes of the Freedom of Information and Protection of Privacy Act, I authorize my agent to provide any of my personal information that will be included in this application or collected during the processing of thisapplication.

Date

Signature of Owner

Consent of the Owner to the Use and Disclosure of Personal Information

I, <u>DAVID METZ</u>, and the owner of the land that is the subject of this consent application and for the purposes of the Freedom of Information and Protection of Privacy Act, 1 authorize and consent to the use by or the disclosure to any person or public body of any personal information that is collected under the authority of the Planning Act for the purposes of processing this application.

JAN 6-2017 Date

BULLS

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TOWNSHIP OF MELANCTHON COMMITTEE OF ADJUSTMENT NOTICE OF DECISION UNDER THE PLANNING ACT

FILE NO. B1/17

We, the undersigned members of the Committee of Adjustment, do hereby certify that the following decision was reached by us at a meeting in Melancthon Township on

Thursday, June 15, 2017 The said decision was reached on the application of: 1392119 Ontario Ltd.(David Metz) to sever approximately 0.41 ha., with a frontage of approximately 56.2 m, from Part of the East Part of Lot 14, Concession 2 OS (RP7R-3747 Part 1, <u>DECISION:</u> APPROVED (if granted, is subject to the following conditions which must be, in the opinion of the Committee, substantially complied with or waived by the party requesting the condition:)

- A reference plan of survey is required. Draft survey to be provided to the Township for review and approval prior to registration.
- Written approval from the County of Dufferin Building Department that the severed lot and retained lot is each suitable for a septic system.
 An entrance to both the severed lot and retained lot entrance to both the severed lot and retained lot entrance.
- An entrance to both the severed lot and retained lot must be approved by the Township Road Superintendent and the entrances be installed before the deed is submitted for endorsement.
 Taxes and special charges must be paid to date when the deed is submitted for
- Taxes and special charges must be paid to date when the deed is submitted for endorsement.
 Conditions must be fulfilled and deeds stamped by the Secretary on or before one year from the mailing date of the Notice of Decision, as signed by the Secretary.

Provincial	application conforms with the Official Plan of ownship of Melancthon, is consistent with the Policy Statement and has been conditionally by the NEC through Development Permit Application
<u> </u>	
CHAIRMAN	MEMBER
Jane Relivor	
MEMBER	MEMBER
MEMBER MEL	-
Denise B. Holmes	Societary Treasurer of the Melanethan Tours 1

I, Denise B. Holmes ,Secretary-Treasurer of the Melancthon Township Committee of Adjustment hereby certify that the above is a true copy of the decision of the Committee with respect to the application recorded herein.

DATED THIS 16th day of June, 2017

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You will be entitled to receive notice of any changes to the conditions of the provisional consent if you have made a written request to be notified of changes to the conditions of the provisional consent.

Any person or public body may, not later than <u>20</u> days after the giving of notice under subsection (17) of the Planning Act is completed, appeal the decision or any condition imposed by the Committee of Adjustment or appeal both the decision and any condition to the Municipal Board by filing with the <u>clerk of the municipality</u> a notice of appeal <u>setting</u> <u>out the reasons for the appeal</u>, accompanied by the fee of \$300.00 payable to the Minister of Finance. THE LAST DATE ON WHICH THIS DECISION MAY BE APPEALED TO THE ONTARIO MUNICIPAL BOARD IS THE 7th day of July, 2017

Only individuals, corporations and public bodies may appeal decision in respect of applications for consent to the Ontario Municipal Board. A notice of appeal may not be filed by an unincorporated association or group. However, a notice of appeal may be filed in the name of an individual who is a member of the association or group.



The Corporation of **THE TOWNSHIP OF MELANCTHON** 157101 Highway 10, Melancthon, Ontario, L9V 2E6

Denise B. Holmes, AMCT CAO/Clerk Telephone - (519) 925-5525 Fax No. - (519) 925-1110 Website: <u>www.melancthontownship.ca</u> Email:<u>info@melancthontownship.ca</u>

REPORT TO COUNCIL

то:	MAYOR WHITE AND MEMBERS OF COUNCIL
FROM:	Wendy Atkinson, Treasurer
SUBJECT:	Draft Budget
DATE:	March 15, 2018

On March 1, 2018 at the Committee of the Whole meeting, a preliminary budget was submitted with an 8.2% increase in the budget. Discussion ensued regarding the economics of paving vs. gravel. Further to a delegation at 9:40 am by Dave Milliner, CAO, Township of Southgate and Theresa Baker, Manager of Operations SEGCHC, the Treasurer was directed to allocate \$5,000 in the 2018 budget for the Erskine Clinic. A few other minor amendments were directed.

<u>Financial</u>

The major capital road expenses incorporated into this budget are Bridge #10 (subject to change pending Bridge Study from K. Smart & Associates), and resurfacing (roads to be determined). Gas Tax Revenue in the amount of \$80,000.00 has been incorporated into the budget to offset a portion of the resurfacing costs. The amount to be received from OCIF (formula base) is \$50,000.00 and this amount is included in the budget. Bridge and Culvert maintenance has been increased as it appears there will be an increase in the maintenance required for 2018. A GPS system has been budgeted at approximately \$12,000.00. Replacement computers for the administrative office plus a server have also been included in this budget at an estimated cost of \$15,000.00. An adjustment of \$16,152 for the year 2015 and \$13,756 for the year 2016 has been received for Policing so this has been reflected

G.B. 14.1 MAR 1 5 2018

in the budget amount for 2018 reducing the costs by \$29,908. An increase of \$12,500 has been received for the OMPF funding and has been incorporated into the budget.

As a result of the recommended changes the amount to be raised through taxation is \$2,574,368.00 - an increase of \$204,050 or 8.6%. Factoring in the changes in assessment the increase to the Melancthon portion of the tax rate is approximately 3.1% (residential).

Based on this budget, the increase for every \$100,000 assessment is \$15.35 for Melancthon's portion of the tax rate:

i.e. - 100,000 × 2018 rate 0.515345% = \$ 515.34 100,000 × 2017 rate 0.499986% =<u>\$499.99</u> \$ 15.35

Tax Scenario (Melancthon rate only)

2017 House Assessed at 350,250 x 0.499986% = \$1,751.20 2018 House Assessed at 357,500 x 0.515345% = \$1,842.36 The increase to assessment is 2.07% and the increase in tax dollars is \$91.16 or 5.2%.

Based on the above scenario a house assessed at 350,250 with no change in assessment would see an increase of \$53.79 per year (350,250 x 0.515345% = \$1,804.99) or 3.1% (Melancthon rate only)

Respectfully submitted

Wendy Atkinson



Corporation of the Township of Melancthon 2018 Operating and Capital Budget al-Unaudited

Acct No.	audited	2017 Budget	2017 Actual	2018 Budget
	Opening Surplus/(Deficit)	50,000.00	<u> </u> _	
	TAXATION			
01-4001-0700	Supplementary Taxation	50,000.00	33,303.37	40,000.00
01-4001-0800	Capping Adjustments			and a second
01-4003-0100	GRANTS	750.00	1,042.47	1,000.00
01-4004-0110	Small Business Job Credit	1.752.14	1,752,14	1,000,00
01-4004-0150	OMPF	162,000.00	162,000.00	174,500.00
01-4004-0300	RIDE Grant	6,643.00	-32,77	6,707.00
01-4004-0172	Court Security & Prisoner Transportation	2,117.00	2,116.00	2,070.00
01-4004-0500	Library Grant OCIF Funding (Formula Component)	4,452.00	4,452.00	4,452,00
01-4004-0700	Ontario Aggregate Lic. Fee	45,000.00	51,986.48	50,000,00
01-4030-0100	Drainage Superintendent	25,440.00	-12,17	25,440.00
01-4004-0220	Dufferin County Emergency Readiness			
01-4082-0106	Cty Dufferin Canada 150 Legacy Fund		10,000.00	
01-4004-0166	Main Street Revitalization Grant			38,591.00
	ADMINISTRATION			
01-4010-0100	Tax Certificates	3,400.00	3.040.00	3,000,00
01-4010-0110	Tax Statement/Duplicate Tax Bill	300.00	370.00	325,00
01-4010-0115	Reminder/Overdue Notice Fee		1,412.00	2,000,00
01-4010-0200	Building Permit Approval	4,500.00	4,400.00	4,500.00
01-4010-0250	Site Alteration Permit Approval	440.00	045.00	440.00
01-4010-0300	NSF Cheque Charge	140.00	245.00	140.00
<u>01-4010-0400</u> 01-4015-0100	Photocopies	1,800.00	17,400.00	14,000.00
01-4066-0000	Lottery Licenses	1,000.00	80.00	14,000,00
01-4040-0100	Livestock Claim Grants	5,000.00	4,788.16	5,000.00
01-4063-0000	Special Event Permit		300.00	10
01-4064-0000	Business Licenses	300.00	300.00	300.00
01-4065-0000	Trailer Licenses			
	FIRE		+	
01-4012-0100	Fire Revenue - invoiced Fire Calls		5,687.36	
01-4012-0300	Fire Permit Fee	3,500.00	4,170.00	3,800.00
	ROADS			
01-4020-0100	Road Fees	500.00	7 904 67	500.00
01-4020-0110 01-4020-0125	Roads Misc Fees	1,000.00	7,801.67	1,000.00
01-4020-0120	Wide Load Permits	1,000.00	1,260.00	1,000.00
01-4020-0200	Culverts	1,000.00	1,200.00	
01-4020-0140	Bretton Estates Snow Plowing	900.00		900.00
01-4020-0500	Shelburne road Agreement	5,000.00	5,143.52	5,100.00
01-4020-0210	Road Crossings	1,000.00	3,000.00	1,000.00
01-4020-0215	Road Crossing - Reimbursement Road Services	100,000.00	3,770.31	
01-4020-0700	Transfer from Gas Tax	80,000.00	80,000.00	80,000,00
01-4004-0103	Transfer from Roads Capital Reserve	00,000.00	00,000.00	50,000.00
	PLANNING			
01-4035-0100	Official Plan Amendment	4 000 00	3,000.00	4 000 00
01-4035-0350 01-4035-0300	Zoning By-law Amendment	4,000.00	5,000.00	4,000.00
01-4035-0300	Minor Variance	800.00	1,600.00	800.00
01-4035-0200	Zoning Requests	1,955.00	1,190.00	1,190.00
01-4035-0360	Change of Use Certificate Applications			
01-4035-0375	Pre-Application Consultation		250.00	
01-4035-0500	Professional Services Reimbursement		-952.93	
01-4035-0560	Dufferin Wind Power Reimbursement			
	OTHER	<u> </u>	┨────┤─	
01-4050-0100	Miscellaneous Revenue	500.00	419.50	500.00
01-4050-0125	CHD Community Contribution	309,000.00	309,000.00	309,000.00
01-4050-0130	Plateau Community Contribution	33,984.00	33,984.73	33,065.00
01-4050-0135	DWP Community Contribution	245,000.00	253,480.71	248,000.00
01-4050-0200	Penalties and Interest on Taxes	100,000.00	106,961.19	100,000.00
01-4050-0300	Interest on Deposits	9,000.00	11,872.19	10,000.00
01-4050-0400 01-4050-0450	POA False Alarms - OPP	25,000.00[24,685.33	25,000.00
01-4025-0220	Electronic Recycling Revenue	150.00	38.10	
01-4077-0000	Land Rental	2,550.00	2,550.00	2,550.00
01-4002-0100	Tile Drains		7,248.55	
	Dub Total	4 940 000 44	4 000 700 50	4 004 000 00
	Sub-Total	1,343,263.14 3,713,581.00	1,329,783.56	1,304,280.00
		3,713,301.00	3,177,004,34	3,070,040.00
			<u>↓</u>	-
	Amount to be raised through Taxation	-2,370,317.86	-1,848,020.98	-2,574,368.00

	Taxation	
01-4001-0100	Residential	1,777,655.93
01-4001-0200	Farmland	198,217.93
01-4001-0300	Commercial and Industrial	373,459.77
01-4001-0500	Managed Forests	13,222.82
01-4001-0600	Pipeline	7,762.89
		2,370,319.34

Schedule B



*2017 Actual-Unaudited Corporation of the Township of Melancthon 2018 Operating and Capital Budget

Acct. No.	Budget Expenditures	2017 Budget	2017 Actual	2018 Budget
	General Government			
04 5001 4040	COUNCIL Solarios Mastingo	66,000.00	63,225.36	66,000.00
01-5001-1010	Salaries, Meetings	250.00	03,223.30	250.00
	Receiver General	1,500.00	1,220.19	1,500.00
01-5001-1030		1,000.00	821.91	1,000.00
01-5001-1070		1,800.00	686.50	1,500.00
01-5001-1080		2,500.00	054.00	3,000.00
01-5001-1090		1,000.00	654.60	1,000.00
01-5001-2025				1,500.00
01-5001-2065				5,000.00
01-5001-2190		500.00	500.00	500.00
	Sub-total	74,550.00	67,108.56	81,250.00
04 5000 4040	ADMINISTRATION	225.000.00	040 095 40	246,000.00
01-5002-1010		235,000.00	212,285.18	15,000.00
01-5002-1020		1,500.00	133.11	1,200.00
	Receiver General	12,000.00	11,858.16	12,500.00
01-5002-1026		2,000.00	944.92	1,500.00
01-5002-1030	EHT	4,600.00	4,390.05	4,700.00
01-5002-1040		7,000.00	6,591.65	7,000.00
	RRSP/OMERS Township Cont.	21,200.00	22,689.53	24,000.00
01-5002-1070		1,500.00	1,233.50	1,500.00
01-5002-1080		2,500.00	233.03	4,500.00
01-5002-2025		6,250.00	4,794.50	6,000.00
01-5002-2020		5,250.00	4,980.32	5,300.00
	Office Equipment	3,600.00	3,707.68	3,800.00
	Computer Program Updates & IT Services	14,000.00	14,667.63	15,000.00
	Computers & Server			15,000.00
01-5002-2037		4 500 00	4 000 00	2,580.00
01-5002-2040		1,500.00	1,293.36	2,000.00
01-5002-2050		3,000.00	2,703.40	3,500.00
01-5002-2000		2,000.00	1,647.93	2,000.00
01-5002-2080		5,000.00	4,530.17	5,000.00
01-5002-2090	Telephone	2,500.00	2,450.18	2,600.00
01-5002-2094		1,300.00	1,170.89	1,300.00
	Website Maintenance	3,000.00	7,896.06	600.00
·	Professional Fees - Legal	10,000.00	8,266.84	10,000.00
	Professional Fees - Biosolids Health and Safety Services	5,000.00	4,862.21	5,000.00
	Municipal Emergency Readiness Fund	3,000.00	4,002.21	0,000.00
	Drainage Tribunal Expenses		3,329.54	
	Employee Township Compensation Plan			9,000.00
01-5002-2110		35,000.00	35,000.00	35,000.00
01-5002-2120		5,000.00		10,000.00
	Bldg Maintenance	12,000.00	1,755.43	12,000.00
	Office Cleaning Landscaping & Grass Cutting	1,100.00	<u>1,120.00</u> 344.96	1,300.00
	Water Sampling	100.00	72.08	100.00
	Other/Miscellaneous	2,000.00	1,394.91	2,000.00
	Volunteer Appreciation Night	200.00	126.88	200.00
01-5002-2200	Petty Cash	500.00	209.94	500.00
	Tax Write-Offs	50,000.00	54,494.34	45,000.00
	Uncollectable Debts			
	Penny Rounding		(0.08)	4 400 00
	Bank Charges Grants to Others	550.00	350.56	1,180.00
	Erskine Clinic	1,000.00	1,230.00	5,000.00
01-5002-6160			+ +	
01-5002-7011		13,057.00	13,056.66	13,057.00
	Sub-total	510,057.00	467,155.51	557,917.00



	PROTECTION TO PERSONS/PROPERTY			
01-5003-6010	Mulmur Melancthon FD	95,765.00	95,064.11	98,180.00
01-5003-6020	Shelburne and District FD	87,500.00	85,918.62	90,550.00
01-5003-6030	Township of Southgate FD - Operating	24,000.00	24,361.00	24,750.00
01-5003-6031	Township of Southgate FD - Capital	7,000.00	7,000.00	7,000.00
01-5004-3050	Policing (2018 Actual 400,497- Adjustments 2015,2016)	431,120.00	427,771.32	370,589.00
01-5004-3055	Policing - ESO	500.00	462.28	500.00
01-5004-3052	Policing - RIDE	6,643.00	(32.77)	6,707.00
	Police Services Board	500.00	79.37	500.00
	Nottawasaga Valley CA	11,263.00	11,262.17	11,709.00
01-5004-6050	Grand River CA	19,694.00	19,694.00	18,160.00
	SWP Collaboration Agreement		6,902.39	
01-5013-6140	Livestock Claims	5,000.00	6,769.91	5,000.00
	Animal Control	5,000.00	8,373.37	3,000.00
		10,000.00	3,585.39	20,000.00
	By-law Enforcement			5,300.00
	Street Lights LED	5,500.00	5,086.30	5,300.00
01-5006-3030	Hornings's Mills Street Lights - new	700 (00 00	1,995.13	004.045.00
	Sub-total	709,485.00	704,292.59	661,945.00
	ROADWAYS			
	Road Budget	2,079,158.00	1,614,468.13	2,209,258.00
	Transfer to Reserves			
	Sub-total	2,079,158.00	1,614,468.13	2,209,258.00
	ENVIRONMENTAL SERVICES			
01-5007-2171	Levelling			
	Landfill Study/Monitoring	22,100.00	22,081.92	22,700.00
	Miscellaneous		1,912.08	
01-5007-2190	Rehabilitation Reserve	10,000.00	10,000.00	10,000.00
01-5007-7001		32,100.00	33,994.00	32,700.00
	Sub-total	32,100.00	33,994.00	32,700.00
	RECREATION			
01-5010-5050	Corbetton Park Reserve		20,000.00	
01-5010-5055	Corbetton Park	3,630.00	233.02	3,000.00
01-5010-5056	Corbetton Park Legacy Fund	10,000.00		
01-5010-6060	Horning's Mills Park	4,700.00	4,649.19	4,700.00
01-5010-6065	Homing's Mills Community Hall	5,000.00	5,968.79	5,000.00
015010-6066	Horning's Mills Heritage Project	300.00	262.04	300.00
	Township Entrance Signs			35,000.00
01-5010-6070	Centre Dufferin Recreation Complex	45,328.00	45,328.00	46,235.00
	Dundalk Community Centre	14,000.00	14,000.00	14,000.00
	North Dufferin Community Centre (Start Up)	17,500.00	17,500.00	20,000.00
01-0010-0100	North Dufferin Community Centre Bd of Management	11,000.00		25,042.00
01 5010 7010	Mulmur-Melancthon Recreation Capital	5,000.00	5,000.00	5,000.00
01-5010-7010		12,500.00	2,500.00	
01-5016-8902	Horning's Mills Cemetery			12,500.00
01-5016-8904	St. Paul's Cemetery	1,000.00	950.00	1,000.00
				4-4-5
	Sub-total	118,958.00	116,391.04	171,777.00
	LIBRARY			
01-5011-6110	Shelburne Library	50,393.00	50,392.59	54,021.00
01-5011-6120	Dundalk Library	7,900.00	7,900.00	7,900.00
	Sub-total	58,293.00	58,292.59	61,921.00
	PLANNING & DEVELOPMENT			
01-5012-2100	Professional/Legal Fees	46,000.00	43,953.72	46,000.00
	New Official Plan	5,000.00	3,408.78	
	New Zoning By-law			
01-5012-2115	Strategic Plan	24,100.00	24,294.18	
010012-2110	Sub-total	75,100.00	71,656.68	46,000.00
		10,100.00	1,000.00	40,000.00
	<u> </u>	+ +	+	
	DRAINAGE		+ +	
04 5000 0000		50 000 00	22 406 00	E0 000 00
01-5009-3060	Drainage Superintendent	50,880.00	32,196.88	50,880.00
01-5015-0100	Tile Drainage Principal & Int Pymts		7,248.56	
	Sub-Total	50,880.00	39,445.44	50,880.00
			<u> </u>	
	RESERVE			_
	Transfer to Working Capital Reserves			
01-5002-5041	Tax Rate Stabilization			
01-5002-5042	Special Reserve Fund Emergency Relief	5,000.00	5,000.00	5,000.00
				1
		+	<u> </u>	
	TOTAL EXPENDITURES	3,713,581.00	3,177,804.54	3,878,648.00

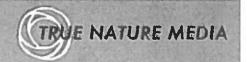


Corporation of the Township of Melancthon 2018 Operating and Capital Budget *2017 Actual-Unaudited

01-5005-1010 S 01-5005-1025 F 01-5005-1020 B 01-5005-1060 S 01-5005-1064 F 01-5005-1070 M	ADMINISTRATION Salaries and Wages Receiver General, EHT & WSIB	2017 Budget 385,000.00	2017 Actual 352,627.32	2018 Budget 390,000.00
01-5005-1025 F 01-5005-1020 B 01-5005-1060 S 01-5005-1064 F 01-5005-1070 M				390.000.00
01-5005-1025 01-5005-1020 01-5005-1060 S 01-5005-1064 F 01-5005-1070 M				
01-5005-1020 B 01-5005-1060 S 01-5005-1064 F 01-5005-1070 M		42,000.00	39,666.31	42,000.00
01-5005-1060 S 01-5005-1064 F 01-5005-1070 M	Benefits	25,000.00	20,047.20	19,500.00
01-5005-1064 F 01-5005-1070 M	Short Term Disability			
01-5005-1070 N	RRSP/OMERS	25,000.00	22,340.87	25,000.00
	Vileage	100.00	54.50	100.00
01-5005-1022	Staff Training and Seminars	2,000.00	325.63	2,000.00
	Office Supplies	150.00	73.29	150.00
		250.00	13.25	250.00
	Computer Program Updates	6,000.00	5 220 50	
	GPS Monthly Tracking Expense	-	5,329.59	5,000.00
	Asset Management Plan	10,000.00	26,028.68	12,000.00
01-5005-3105 B	Bridge Study/Inspections	16,800.00		
	MISCELLANEOUS			
	Jtilities - Heat	10,000.00	8,824.86	10,000.00
	Utilities - Hydro	8,000.00	5,668.19	8,000.00
	Felephone	1,150.00	996.77	1,150.00
01-5005-2091 N	Mobile Phone	1,000.00	1,042.83	1,150.00
01-5005-2040 A	Advertising	750.00	263.55	750.00
	Signs	5,000.00	9,248.76	7,500.00
	nsurance	46,000.00	46,000.00	46,000.00
	Legal Fees	2,000.00	909.52	2,000.00
	Audit	15,000.00	9,667.20	13,000.00
	Memberships	100.00	90.40	100.00
	Materials and Supplies/Stock	8,800.00	5,020.16	8,500.00
01-5005-2105				
	Coveralls	6,500.00	7,536.91	7,500.00
	Services and Rents/Misc	5,000.00	6,062.36	7,500.00
	lealth & Safety Services	5,000.00	4,862.20	5,000.00
	Health & Safety Materials/Supplies	3,000.00	94.19	3,000.00
	Building Maintenance	10,000.00	2,682.15	10,000.00
	Sand Dome Repairs			3,000.00
01-5005-2185 C	Dil Separator Clean Out	2,000.00		1,000.00
01-5005-2192 S	Shop Tools	2,000.00	3,242.00	5,000.00
01-5005-2190 N	Miscellaneous	1,000.00	850.34	1,000.00
	Contract Work	2,000.00	1,095.00	2,000.00
F	EQUIPMENT			
	Fuel - Clear	45,000.00	51,286.27	50,000.00
	Fuel - Dyed	29,000.00	26,066.19	29,000.00
	Fuel - Patrol Trucks	10,000.00	10,261.41	12,000.00
	Dil - Trucks and Grader	4,000.00		4,000.00
	R#1 - Repairs	2,500.00	1,115.15	3,000.00
	R#2 - Repairs	15,000.00	22,621.17	15,000.00
	R#3 - Repairs	10,000.00	4,210.19	6,400.00
	R#3- Flatbed			8,650.00
1	R#4 - Repairs	15,000.00	13,117.35	15,000.00
01-5005-3076 (T	R#5 - Repairs	20,000.00	4,172.57	15,000.00
01-5005-3077 T	R#6 - Repairs	10,000.00	11,228.48	15,000.00
	R#7 - Repairs	5,000.00	1,483.43	3,000.00
11	GR#1 - CAT - Repairs	15,000.00	2,277.24	15,000.00
	GR#2 - Repairs	15,000.00	8,455.70	15,000.00
	Backhoe Repairs	2,500.00	800.34	2,500.00
	oader	2,500.00	305.25	2,500.00
	John Deere Mower		873.64	2,000.00
	Power Washer	1,000.00	010.04	1,000.00
	Chain Saw	1,000.00	21.82	1,000.00
	Roadside Mower	1,000.00	72.54	1,000.00
	Vinter Control-Plow & Wing Parts	15,000.00	4,656.95	35,000.00
	Iohn Deere Grader Loan	32,650.00	32,151.96	32,650.00
01-5005-2191 R	Radio and Truck Licenses	10,000.00	9,926.50	10,000.00
	Radio Maintenance & Repair	1,000.00		1,000.00
	Vater Tank			



	NEW EQUIPMENT			
01-5005-7010	Vehicles	44,000,000		47.000.00
01-5005-7005	Equipment (GPS,air compressor, mower)	14,000.00	14,226.17	17,000.00
	BRIDGES, CULVERTS, DRAINS			
01-5005-3100	Bridge & Culvert Mtce	20,000.00	19,041.15	40,000.00
01-5005-3113	Bridge #15	218,000.00	11,553.17	
01-5005-3114	Bridge #10	210,000.00	11,000.11	185,000.00
01-5005-3850	Drain Maintenance	40,000.00	227.43	40,000.00
01-5005-7021	Culvert 2027 Loan Payment	40,908.00	40,907.52	40,908.00
	ROADSIDE			
01-5005-3215	Grass Mowing & Weed Spryaing	5,000.00	2,136.96	5,000.00
01-5005-3205	Brushing - Tree Trim and Removal	12,000.00	1,152.42	12,000.00
01-5005-3206	Ditching	15,000.00	2,283.10	12,000.00
01-5005-3322	Catch Basins		7.11	
01-5005-3610	Guide Posts & Hardware	500.00		
01-5005-3315	Shoulder Maintenance	3,000.00	3,717.01	3,500.00
04 5005 0000	HARDTOP			
01-5005-3300	Hardtop Resurfacing	5 000 00	0.400.07	0.000.00
01-5005-3310	Cold Mix, Patching & Spray Patching	5,000.00	2,499.87	3,000.00
01-5005-3305	Patch Paving	200,000.00	163,055.87	250,000.00
01-5005-3320	Sweeping, Flushing, Cleaning	5,000.00	4,981.15	5,000.00
01-5005-3400	Loosetop Maintenance			
01-5005-3700	Clearview Townline	1,000.00	2,056.60	1,000.00
01-5005-3750	Townlines	1,000.00	699.63	1,000.00
01-5005-3210	Gravel Resurfacing	250,000.00	265,238.07	255,000.00
01-5005-3410	Dust Layer (Calcium Chloride)	125,000.00	31,898.31	150,000.00
	WINTER CONTROL			
01-5005-3510	Sand and Salt	50,000.00	38,747.48	50,000.00
01-5005-3505	Snow Removal/Blowing	5,000.00	7,614.19	5,000.00
01-5005-3506	Snow Removal Corbetton		2,625.41	
04 5005 0400	ROAD IMPROVEMENTS		705.00	
01-5005-3132	3rd Line Realignment		735.08	
01-5005-3910	Clean Up 7th Line SW		7,801.67	50 000 00
01-5005-3316	Horning's Mills shoulders	50,000.00		50,000.00
01-5005-5015	Roads Capital Reserve Fund		90,000.00	
01-5005-5030	Replacement Equipment Reserve	+		150,000.00
01-0000-0000				100,000.00
01-5005-2160	New Building	110,000.00	115,507.83	
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	TOTAL BUDGET	2,079,158.00	1,614,468.13	2,209,258.00
		_,		_,,



Sara May 13 Drummond St RR5 Orangeville, ON L9W2Z2 647-459-2078 saramay100@gmail.com

TO: Township of Melancthon

RE: Social Media Proposal

To whom it may concern,

I am pleased to provide you with this proposal for the creation and management of social media accounts for the Township of Melancthon. I believe it is very important for government to stay connected with the public, and social media is a great tool for doing so. I would be happy to manage the social media pages, as well as create original multi-media content (such as photos, videos and graphics) for the Township in order to build a strong social media presence that is professional, accessible and informative.

I currently own and operate a multi-media production company called <u>True Nature Media</u>. I specialize in producing creative, authentic multi-media, including videos, photos, graphic design, and copy writing. I also manage several social media accounts, including the Facebook and Instagram for Maggiolly Art Supplies, Erin Farmers' Market, Falcon Jane band, and of course, my own business, True Nature Media. I also create content for 100km Foods Inc.'s social media and website.

I have a background working for municipal government. Before starting my business, I worked as part of a Marketing and Communications team for York Region's Transportation Department. Working alongside graphic designers, web coordinators and social media specialists, I created dynamic multi-media content and campaigns that aligned with the departmental and corporate mission and vision. I understand that public sector messaging is unique, and that accessibility and sensitivity are priorities.

I am always staying up to date on current social media trends and advancements. There are many different factors that contribute to an effective social media presence, and I hope to work with the Township of Melancthon to create channels that accurately represent the community and effectively convey important information.

I've attached my resume to the end of this document. Please let me know if you have any questions or concerns about my proposal - I am happy to discuss what I've written. I look forward to hearing from you.

Sara May

Sara May

MAR 1 5 2018

G.B - N/0 Bus 14.2,2

<u>STRATEGY</u>

OBJECTIVE

To create and maintain a social media presence and strategy for the Township of Melancthon that is professional, accessible and informative. Engaging residents, businesses and visitors through social media will deepen their connection to the Township, and provide a space to share information, ultimately building a stronger sense of community.

SOCIAL MEDIA PLATFORMS

Creation and management of social media pages on the following sites:

Facebook Instagram

POST FREQUENCY

Four times per month Once per week on Facebook and Instagram with more frequent posts about special events or emergencies

CONTENT

Content will be sourced from the Township of Melancthon website, Township staff and department managers, surrounding and encompassing governments' websites and social media (Dufferin County, Provincial Government, Federal Government, Town of Mulmur, Town of Shelburne etc.)

Option for content creation:

Original content will be created on an as-needed basis by True Nature Media, including photos, videos, written copy and graphics.

Opportunity for creating online media campaigns to highlight or promote specific services, assets, people and events. These campaigns could include photos, short videos, and graphic branding.

POSTING SCHEDULE:

General Guidline:

Week One: Municipal Info (public works and services, council highlights etc.) Week Two: Did You Know (history facts, current facts, resident and business highlights) Week Three: Municipal Info (public works and services, council highlights etc.) Week Four: Events & Activities (family fun at recreation centres, Melancthon Birthday party, local concerts and attractions)

Any time sensitive info (road closures, emergency info, upcoming municipal events) will take priority and will be posted accordingly.

HOURS & BUDGET

START UP:

TASK	HOURS	ONE TIME AMOUNT (\$)
Research & Brand Development - researching Township history and future - gathering information from stakeholders - developing brand and online presence - setting up social media accounts (Facebook, Instagram, Twitter, YouTube) - creating social media plan	16 hours (two full days or four half days)	800
TOTAL	16	800

REOCCURRING:

TASK	HOURS	AMOUNT (\$) PER MONTH
Social Media Management - creating posts - managing social media pages - responding to comments and messages - monitoring influencing social media pages - research and updates	2 hours per week (8 hours per month)	400
TOTAL		8 400

OPTIONAL:

TASK	HOURS	AMOUNT (\$) PER MONTH
 Content Creation on location research, photos and videos, meetings with stakeholders and township staff content editing and preparation for social media platforms (text, photo, graphic editing) 	Billed hourly at \$50 per hour	As Needed
TOTAL		As Needed

--- SARA MAY ---

WEBSITE truenaturemedia.ca PHONE 647-459-2078 EMAIL saramay100@gmail.com

	DUCATION
BACHELOR OF FINE ARTS Film Studies	Ryerson University – Graduated in 2013 with Honours 2013 Natalie McDonald Award for an Outstanding Female Filmmaker Co-Chair of Fundraising and Events for the 2013 Ryerson University Film Festival
CERTIFICATE Creative Writing	Humber College - Graduated in 2014 2014 Long list for CBC Canada Writes Short Story Prize
	EXPERIENCE
2017 - Present OWNER/OPERATOR True Nature Media	Freelance multi-media, content creation and social media work for a variety of clients, specializing in work that is creative and authentic. Responsible for all aspects of the business, including administration, sales, customer service, marketing, finances, and operations.
2016 - Present DIGITAL MEDIA SPECIALIST 100km Foods Inc.	Created multi-media content for website and social media channels, including a variety of videos showcasing their customers, suppliers, staff and CEOs. Captured and catalogued product photography for over 1000 products. Developed a brand for farmer profile video series and managed posts on social media channels.
2017 MANAGER Erin Farmers' Market	Managed the operations and administration for the 2017 Erin Farmers Market, including site organization and set up, billing, event planning, advertising, and marketing. Established communications between vendors and market committee. Set up and operated social media accounts featuring original photography.
2014 - 2016 VISUAL MEDIA COORDINATOR York Region	Lead video projects through all stages of production, including concept development, treatment and script writing, resource and location scheduling, shooting, editing and distributing. Directed videos to adhere to the corporate standard and align with the department vision. Photographed regional assets, staff and events.
2010 - 2014 VIDEO EDITOR/VIDEOGRAPHER York Region	Provided the Marketing and Communications team with multi-media content and expertise. Shot and edited a variety of videos and photos, including social, training, promotional, and educational videos.
E	XPERTISE
COMPUTER SOFTWARE	Video editing programs: Final Cut Pro and Adobe Premiere; Audio recording and editing software; Adobe CC especially Photoshop and Illustrator; Microsoft Office Suite; Corel Draw; Social Media platforms: Instagram, Facebook, Twitter, YouTube; Website building and analytics; Windows and Mac operating systems
EQUIPMENT	Cameras: Canon DSLRs, Nikon DSLRs, Sony DSLRs, 16mm Bolex Audio recorders: ZOOM H4N and H6, variety of microphones Lighting equipment and set ups
OTHER	Creative writing, content creation, project management, customer service, problem solving, time management, brand development, leadership Positive, productive and pleasant

REFERENCES AVAILABLE UPON REQUEST

5.30 pm Thurs Marista



TOWNSHIP OF MELANCTHON

DELEGATION REQUEST FORM

Request for Delegation, any written submissions and background information for consideration by Council must be submitted to the Clerk's Office by 12:00 noon on the Thursday, <u>prior to the requested meeting</u>.

REQUEST DATE: March 6, 2014
NAME: Jun Prilla P.Eng. PHONE: 519-939-1578
ADDRESS: 15 Twinting Orangeville, UN. Lyw 3R4
EMAIL ADDRESS: transprilla - Con burnile - Com
SIGNATURE: Ton C.)

Purpose of Delegation Request (state position taken on issue, if applicable).

23 141 0 3 GU

REMINDER - DELEGATIONS ARE ALLOWED 10 MINUTES TO SPEAK

Personal information contained on this form is collected under the authority of *The Municipal Freedom of Information and Protection of Privacy Act.* This sheet and any additional information provided will be placed on the Council Agenda. The Agenda is a public document and forms part of the permanent public record. Questions about this collection should be directed to the Clerk at 519-925-5525.

TOWNSHIP OF MELANCTHON 157101 HIGHWAY 10 MELANCHHON, ONTARIO 1992 206 510-925-5525 Fax - \$19-925-1130 Email <u>mfoörmelanethonowuslinga</u>

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