



Grey Sauble Conservation Authority

R.R. #4, 237897 Inglis Falls Road

Owen Sound, Ontario N4K 5N6 (519) 376-3076; ext. 234

t.lanthier@greysauble.on.ca

The next regular meeting of the Grey Sauble Conservation Authority Board of Directors is scheduled for Wednesday, June 24th, 2020, at 1:15 p.m. The regular meeting meeting will occur via the Webex web-based application. Please notify Tim Lanthier if you are unable to attend.

Directors

Burley, Dwight
Carleton, Sue
Greig, Ryan
Greig, Scott
Little, Cathy
Koepeke, Marion

Mackey, Scott
McKenzie, Paul
Matrosovs, Andrea
Greenfield, Harley
Vickers, Paul

Honourary Members

Elwood Moore
Betty Adair

Ling Mark, MECP
Katona, Keley, MECP
Lara Oosting, MNRF, Peterborough
Tracy Allison, MNRF, Owen Sound
Bill Walker, M.P.P., Bruce Grey Owen Sound
Alex Ruff, M.P., Bruce Grey Owen Sound
Terry Dowdall, M.P., Simcoe-Grey
Jim Wilson, M.P.P., Simcoe-Grey



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The next regular meeting of the Grey Sauble Conservation Authority Board of Directors is scheduled for Wednesday, June 24th, 2020, at 1:15 p.m., via the Webex web-based application. Public viewing of this meeting will be available via a live stream on youtube at:

https://www.youtube.com/channel/UCy_ie5dXG8aFYDYGe8tV9Yg/videos.

Please note that this is a Notice of Meeting only for your information.

**The Sun Times
Bayshore Broadcasting
The Meaford Independent
The Dock
The Wiarton Echo
The Advance
The Post
The Thornbury Paper
The Hub Owen Sound
Blue Mountains Review
South Grey News
Collingwood Today**



237897 Inglis Falls Road, R.R.#4, Owen Sound, ON N4K 5N6
Telephone: 519.376.3076 Fax: 519.371.0437
www.greysauble.on.ca

AGENDA

Grey Sauble Conservation Authority
Full Authority Meeting
Wednesday, June 24th, 2020 at 1:15 p.m.

1. **Call to Order**
2. **Disclosure of Pecuniary Interest**
3. **Call for Additional Agenda Items**
4. **Adoption of Agenda**
5. **Approval of Minutes**
 - i) Full Authority – May 27th, 2020 – **Attachment #1**
6. **Consent Agenda – Resolution**
 - i) Environmental Planning – Section 28 Permits – May 2020 – **Attachment #2**
 - ii) Administration – Receipts and Expenses – May 2020 – **Attachment #3**
 - iii) Correspondence – **Attachment #4**
 - a) Letter Prime Minister Trudeau regarding the value of natural infrastructure as an integral part of green recovery – May 20, 2020 – CO among multiple signatories
 - b) Letter from CO to Minister Yurek regarding Next Steps in the Conservation Authorities Act Review – June 3, 2020
 - iv) Other Minutes – nothing at this time
7. **Business Out of Minutes** – nothing at this time
8. **Deputation – 1:20pm:** Sue Bragg, Partner, Baker Tilly, Annual Presentation re: GSCA 2019 Financial Audit Report – Information - **Attachment #5** (20 minutes)
9. **Deputation – 1:45pm:** Esme Batten, Program Director, Nature Conservancy of Canada re: Invasive Species Management Project – Resolution – **Attachment #6** (25 min)
10. **Business Items**
 - i) Administration
 - a) Update on COVID-19 related Business and Operations Status – Information – (10 min)
 - b) Audit Report and Financial Statements– Resolution – **See Attachment #5** (15 min)

AGENDA

Grey Sauble Conservation Authority

Full Authority Meeting

Wednesday, June 24th, 2020 at 1:15 p.m.

ii) Water Management

- a) Rankin Dam Update – Information – **Attachment #7** (15 min)

iii) Environmental Planning

- a) Update on Shoreline workshops and municipal collaboration – Information – **Attachment #8** (10 min)

- b) Annual Regulations Mapping Changes Update – Information – **Attachment #9** (15 min)

iv) Conservation Lands

- a) Update on Re-Opening of GSCA Properties to Public Access – Information – (5 min)

v) Forestry – nothing at this time

vi) Communications/Public Relations – nothing at this time

vii) GIS/IT

- a) Final IT Policy – Resolution – **Attachment #10** (20 min)

- b) Board of Directors' Sharepoint Website – Information – (15 min)

viii) DWSP/RMO Report – nothing at this time

11. CAO's Report (10 minutes)

12. Chair's Report (10 minutes)

13. Other Business – Nothing at this time.

14. Closed Session:

- i) There is one closed session item for the Board of Directors to consider. This item relates to the security of the property of the Authority and to litigation or potential litigation including matters before administrative tribunals.

15. Next Full Authority Meeting – Wednesday, July 22nd, 2020, at 1:15 p.m.

16. Adjournment



Grey Sauble Authority Board of Directors

MOTION

DATE: **June 24th, 2020**

MOTION #: **FA-20-048**

MOVED BY: _____

SECONDED BY: _____

THAT the Grey Sauble Conservation Authority Board of Directors approve the agenda of June 24th, 2020.



**GREY SAUBLE CONSERVATION AUTHORITY
MINUTES
Full Authority Board of Directors
Wednesday, May 27, 2020, at 1:15 p.m.**

The Grey Sauble Conservation Authority Board of Directors meeting was held via the internet on the meeting application, WebEx.

1. Call to Order

Chair Cathy Little called the meeting to order at 1:15 p.m.

Directors Present – Chair Cathy Little, Dwight Burley, Sue Carleton, Harley Greenfield, Vice Chair Scott Greig, Marion Koepke, Scott Mackey, Andrea Matrosovs, Paul McKenzie, Paul Vickers

Directors Absent – Ryan Greig

Staff Present – Tim Lanthier, Nancy Guest, Gloria Dangerfield, Alison Armstrong, John Bittorf, Carl Seider

Also Present – Michael Konopka, TD Wealth Management and Nancy Brown, Grey Sauble Arboretum Alliance

2. Disclosure of Pecuniary Interest

The Directors were reminded to disclose any pecuniary interest that may arise during the course of the meeting. No disclosures of pecuniary interest were expressed at this time.

3. Call for Additional Agenda Items – none

4. Adoption of Agenda

Motion No.:
FA-20-041

Moved by: Dwight Burley
Seconded by: Andrea Matrosovs

THAT the Grey Sauble Conservation Authority Board of Directors approve the Agenda of May 27th, 2020.

Carried

5. Approval of Minutes

**Motion No.:
FA-20-042**

**Moved by: Marion Koepke
Seconded by: Harley Greenfield**

THAT the Grey Sauble Conservation Authority Board of Directors approve the minutes of April 22nd, 2020.

Carried

6. Consent Agenda

**Motion No.:
FA-20-043**

**Moved by: Scott Mackey
Seconded by: Scott Greig**

THAT in consideration of the Consent Agenda Items listed on the May 27th, 2020, agenda, the Grey Sauble Conservation Authority Board of Directors receives the following items: i) Environmental Planning - Section 28 Permits – April 2020; ii) Administration - Receipts & Expenses – April 2020; iii) Correspondence: a) Letter from The County of Bruce to Premier Ford regarding Support for Conservation Authorities – May 11, 2020; b) Letter from AMO to Minister Yurek regarding Next Steps in the Conservation Authorities Act Review – May 19, 2020.

Carried

7. Business Out of Minutes – None

8. Deputation

Mike Konopka, Senior Portfolio Manager, TD Wealth Management gave the annual presentation respecting the Authority's Wealth Portfolio Market Outlook for 2020 noting that the primary goal for the portfolio is to preserve capital; the secondary goal being to grow/increase the funds in the portfolio. The objective is for a balanced projection taking into consideration market volatility. Currently the equity range and long-term goal is between 35-65%. The current market value showed an average rate of return of 4-6%, with a decline since mid-February 2020. The original capital is still intact with an equal balance between stocks and bonds. Recently there has been some improvement since the original report due to economic changes. Indications are to have investments in the strongest companies, with emphasis on the U.S. markets, which have a broader representation and better opportunities. A positive sign for the economy will be when the jobless rates decline.

9. Business Items

i) Administration

a) Update on COVID-19 related Business and Operations Status

The CAO reviewed the Staff Report and advised that there have been substantial changes in the business model and legislation since the last report on this matter. The pace has slowed down somewhat and the focus is on re-opening. Staff are working remotely as much as possible, some engaged in field work, and the model is working well. The CAO is working with Public Health with respect to re-opening. We are able to proceed with our strategic plan and for the most part, operating as normal with business as usual.

The following is a brief update by program area:

Administration and Corporate Services

Generally operating as normal with the goal of seeking a new Administrative Assistant as soon as the situation allows. Serenity Morton has been covering some of the duties of the former Administrative Assistant, and Nancy Guest, of the Source Water Protection office, is assisting with Board of Directors meetings.

Environmental Planning and Regulations

Planning applications are down slightly, and permit applications appear to be up.

Water Management

Water management and flood forecasting are generally proceeding as per normal.

Watershed Monitoring

No water sampling is being undertaken at this time due to logistical issues with getting pairs of staff into the field. Additionally, MECP labs are not currently accepting samples.

Stewardship

Stewardship goals are on track and proceeding with the expectation that grant funds will all be used before the end of the year.

Forestry

Contrary to our understanding at the time of the April Board meeting, some of GSCA's Forestry activities were not deemed essential business by the Province in late April – early May, and therefore have been substantially reduced. The Arbour Day tree sale was cancelled, and pre-ordered tree sales were not able to proceed. However, tree planting is

well underway and should be finished by mid-June. The forestry business has opened up recently but too late for much of what our Forestry Department plans for in the early Spring.

Education

We are assessing the feasibility of running the summer day camp, but it doesn't look promising with numerous safety precautions causing a possible deficit in costs versus intake. With provincial orders pushed into June, day camp will likely be cancelled.

Lands Policy and Management

There is currently no new Manager in this department due to COVID-19 hiring issues, which may result in not all priority tasks being fulfilled this year.

Operations

With no Manager in this department, Morgan Barrie is filling in as Acting Operations Manager, and is responsible for all of GSCA property management operations. We are bringing on two staff next week, and if we are successful with grant applications, we will hire two seasonal staff to assist in managing the properties. Grants have been applied for and positions posted.

b) First Quarter Investments

The Manager of Financial and Human Resource Services reviewed the TD Investment Account statement for the period of January 1, 2020 to March 31, 2020 and advised that, as covered by the aforementioned report from Mike Konopka, the portfolio decreased at the end of the first quarter, but has been increasing since the second week of April.

c) First Quarter Financial Report and Year-end Forecasts

The Manager of Financial and Human Resource Services reviewed the budgets and advised that there have been some delays in obtaining all the information. Several staff positions have not been filled due to COVID-19 restrictions. This has resulted in some savings in salaries. The year-end forecast has been adjusted and there may be further savings in mileage, due to the price of gas, as well as in the forestry area. Revenue will need to be revisited as, among other things, revenue is down because of the closing of our properties and reduction in some service areas.

ii) Water Management

Water Resources Coordinator, John Bittorf, presented a PowerPoint report regarding the condition of GSCA dams and advised that all dams have been installed in time to capture sufficient water prior to dry summer weather. It was noted that a pair of mute swans were nesting in the low water area upstream of GSCA's Mill Dam in the Mill Pond in Owen Sound. A crew of staff managed to move the nest undisturbed, including several eggs to higher

ground while keeping the parents at bay long enough to complete the move. This was successful and the female returned to the nest immediately and has continued to use it.

iii) Environmental Planning

Environmental Planning had nothing to report at this time.

iv) Conservation Lands

a) Re-opening Properties

The CAO reviewed the Conservation Land Re-opening report and advised that all GSCA properties had been closed due the COVID-19 and are now slowly being re-opened for public access. The specific properties are listed on the GSCA website and are being inspected prior to opening for safety and maintenance. One of the primary goals of the extending the closures was not encouraging travel to the area at this time. Options are being considered respecting compensations for current season pass holders.

b) Drainage Easement

A landowner in the Town of the Blue Mountains, whose property is surrounded by GSCA's Peasemarth property, has requested an easement or right-of-way over GSCA lands for drainage purposes. A lease agreement was discussed by the Board and it was agreed that an offer be made to the landowner in consideration of the use of Authority property.

Motion No.:
FA-20-044

Moved by: Scott Mackey
Seconded by: Dwight Burley

WHEREAS, the Grey Sauble Conservation Authority (GSCA) is the fee-simple owner of the lands known to us as Peasemarth Nature Reserve (herein, Peasemarth) in the Town of the Blue Mountains;

AND WHEREAS, Mr. John Antchak, owner of 208485 Highway 26, has approached GSCA with an interest to have a drainage easement over a portion of GSCA's Peasemarth Property;

AND WHEREAS, under Section 21(1)(c), (d) and (n) of the Conservation Authorities Act, GSCA may enter into an agreement with an individual to lease a property;

THAT the Board of Directors agree to Staff negotiating an ongoing 5-year lease agreement with Mr. Antchak for the purposes of allowing drainage across GSCA's lands.

Carried

v) Forestry

There were no forestry issues at this time.

vi) Communications

Manager of Information Services, Gloria Dangerfield, reviewed the recent media releases including the erroneous sale of part of the Hibou property, the closing of GSCA lands, and the staged re-opening of GSCA lands.

vii) GIS/IT

a) Lora Bay Project

Manager of Information Services, Gloria Dangerfield, advised that a risk assessment has been completed with respect to the Lora Bay Project (NDMP 5), however the Ministry of Municipal Affairs and Housing was unable to get the Federal Government to extend the deadline for project completion and thus no federal funds can be used after March 31, 2020.

b) Owen Sound Climate Change Adaptation Plan

Manager of Information Services, Gloria Dangerfield, advised that the City of Owen Sound was undertaking a Climate Change Adaptation Plan, however staff working on this project were laid off due to COVID-19 related concerns.

The City was also planning a Healthy Communities Climate Conference planned for October 28, 2020 but will now be undertaking a virtual event on that date, with the actual conference postponed to the Spring of 2021.

c) LiDAR Pricing and Use

Manager of Information Services, Gloria Dangerfield, reviewed her report on the Light Detection and Ranging (LiDAR) memorandum of understanding which allows for the sharing of all data amongst GSCA, the County of Grey and Town of the Blue Mountains, and sets the parameters for sale of the data.

Motion No.:
FA-20-045

Moved by: Sue Carleton
Seconded by: Harley Greenfield

WHEREAS Grey Sauble Conservation Authority (GSCA) acquired LiDAR for the lake fringe watersheds of Grey County;

AND FURTHER WHEREAS this project was funded through a partnership between GSCA, The County of Grey and The Blue Mountains under the National Disaster Mitigation Program Intake 4;

AND FURTHER WHEREAS The Blue Mountains paid additional costs to have the entirety of the municipality flown;

THAT the Grey Sauble Conservation Authority enter into a memorandum of understanding with The County of Grey and The Blue Mountains that permits the sale of LiDAR data by GSCA, for commercial purposes, at a cost of \$250 per square kilometre tile, or stereo pair, outside of The Blue Mountains Jurisdiction.

Carried

viii) Drinking Water Source Protection & Risk Management

Nothing to report at this time.

10. CAO's Report

The CAO reported that a new employee benefits plan is being investigated and is in the final stages of decision-making. This new plan would provide slightly better benefits for employees and cost approximately \$5000 less for GSCA. It is anticipated that the new benefits would be effective June 1, 2020.

The CAO continues to meet with municipal mayors and CAOs respecting COVID-19 restrictions and re-openings, as well as with GSCA volunteer groups. Volunteers and staff have been instrumental with the inspection and maintenance of 172 kilometres of GSCA trails to prepare for re-opening. The CAO also meets with the General Managers/CAOs of Ontario's conservation authorities, organized by Conservation Ontario, to discuss many items, including COVID-19 challenges. Also involved in the CAO's workload are meetings with the Healthy Communities group; reviewing the resumes and hiring a new Manager of Conservation Lands; and preparing to employ a new Administrative Assistant. Board member Marion Koepke suggested sending a special letter to volunteers for their help during this challenging time. Ms. Koepke also suggested that the CAO set up a meeting with the newly hired City Manager for Owen Sound, Tim Simmonds.

11. Chair's Report

The Chair was happy to hear of all the co-operation amongst the various groups to work together during the COVID-19 challenges and advised that she is keeping in contact with the Vice Chair, Scott Greig, and CAO, Tim Lanthier, to deal with immediate matters.

12. Other Business

None at this time.

13. Closed Session

**Motion No.:
FA-20-046**

**Moved by: Dwight Burley
Seconded by: Scott Greig**

THAT the Grey Sauble Conservation Authority Board of Directors proceed into closed session at 3:00 pm to discuss matters related to the following:

Item 1: The security of the property of the Authority – s.4(17)(xvii)(a) and litigation or potential litigation including matters before administrative tribunals - s.4(17)(xvii)(d).

Item 2: Personal matters about an identifiable individual including Authority Directors or Authority employees.

AND FURTHER THAT CAO, Tim Lanthier, Administrative Assistant, Nancy Guest, and Manager of Information Services, Gloria Dangerfield remain in attendance for both items and that Manager of Financial and Human Resource Services, Alison Armstrong, be in attendance for 'Item 2'.

Carried

**Motion No.:
FA-20-047**

**Moved by: Marion Koepke
Seconded by: Scott Greig**

THAT a closed meeting was held, and only closed session items identified were discussed in closed session.

AND THAT The Grey Sauble Conservation Authority Board of Directors endorse and direct the CAO and the Manager of Financial and Human Resource Services to proceed as directed regarding the personal matters about an identifiable individual including Authority Directors or Authority employees as discussed during the closed session meeting.

AND THAT the Grey Sauble Conservation Authority Board of Directors approve the April 22, 2020 Confidential Closed Session minutes as presented in the closed session agenda.

Carried

13. Next Full Authority Meeting – Wednesday, June 24, 2020, at 1:15 p.m.

14. Adjournment

The meeting adjourned at 3:30 p.m.

Cathy Little, Chair

Nancy Guest
Recording Secretary



Grey Sauble Authority Board of Directors

MOTION

DATE: June 24th, 2020

MOTION #: FA-20-049

MOVED BY: _____

SECONDED BY: _____

THAT the Grey Sauble Conservation Authority Board of Directors approve the Full Authority minutes of May 27th, 2020.

Permits Issued from May 1, 2020 to May 31, 2020

Attachment #2

Permit #:	Date Applied:	Date Issued:	Lot:	Conc:	Municipality:	Former Municipality:
GS20-072	31-Mar-20	01-May-20	39	12	Town of the Blue Mountains	Collingwood Township
Approved works:			construction of a 1797 ft ² residential dwelling and associated site alterations		Project Location:	121 Admiral's Trail
					<input checked="" type="checkbox"/> construct	<input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline
					<input type="checkbox"/> alter structure	<input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill
					Reviewed by:	
					Jacob Kloeze	
GS20-012	03-Feb-20	04-May-20	9	6, 7	Municipality of Meaford	St Vincent Township
Approved works:			replacement of municipal bridge and associated site alterations		Project Location:	
					<input checked="" type="checkbox"/> construct	<input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline
					<input type="checkbox"/> alter structure	<input type="checkbox"/> alter wetland <input type="checkbox"/> fill
					Reviewed by:	
					Jacob Kloeze	
GS20-079	14-Apr-20	04-May-20	32	9	Town of the Blue Mountains	Collingwood Township
Approved works:			reconstruction of existing shoreline protection works		Project Location:	222 Bay Street East
					<input type="checkbox"/> construct	<input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline
					<input type="checkbox"/> alter structure	<input type="checkbox"/> alter wetland <input type="checkbox"/> fill
					Reviewed by:	
					Jacob Kloeze	
GS20-064	19-Mar-20	05-May-20	32	9	Town of the Blue Mountains	Collingwood Township
Approved works:			partial demolition of existing dwelling, construction of a 172.7 m ² addition and associated site alterations		Project Location:	216 Bay Street
					<input checked="" type="checkbox"/> construct	<input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline
					<input type="checkbox"/> alter structure	<input type="checkbox"/> alter wetland <input type="checkbox"/> fill
					Reviewed by:	
					Jacob Kloeze	
GS20-104	04-May-20	05-May-20	34	C	Municipality of Meaford	Sydenham Township
Approved works:			site alterations associated with the construction of a residential dwelling		Project Location:	438811 Grey Road 15
					<input type="checkbox"/> construct	<input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline
					<input type="checkbox"/> alter structure	<input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill
					Reviewed by:	
					Jacob Kloeze	
GS20-044	02-Mar-20	06-May-20	25	6	Municipality of Meaford	St Vincent Township
Approved works:			replacement of existing shoreline protection works and installation of shore well		Project Location:	157 Kiowana Beach Road
					<input type="checkbox"/> construct	<input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline
					<input type="checkbox"/> alter structure	<input type="checkbox"/> alter wetland <input type="checkbox"/> fill
					Reviewed by:	
					Jacob Kloeze	

Permit #:	Date Applied:	Date Issued:	Lot:	Conc:	Municipality:	Former Municipality:
GS20-053	09-Mar-20	06-May-20	20	1	Town of the Blue Mountains	Collingwood Township
Approved works:			construction of a 520 ft ² detached garage		Project Location: 186 Timmons Street <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-077	08-Apr-20	07-May-20	39	12	Town of the Blue Mountains	Collingwood Township
Approved works:			construction of a 1797 ft ² residential dwelling and associated site alterations		Project Location: 123 Admiral's Trail <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Jacob Kloeze	
GS20-092	23-Apr-20	11-May-20	27	6	Town of the Blue Mountains	Collingwood Township
Approved works:			repair to existing shoreline protection works		Project Location: 141 Teskey Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-113	24-Apr-20	11-May-20	151	1 SWTSR	Municipality of Grey Highlands	Artemesia Township
Approved works:			Construction of a garage addition and associated alterations		Project Location: 57 Durham Street <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Mac Plewes	
GS20-095	28-Apr-20	11-May-20	24	BF	Municipality of Meaford	Sydenham Township
Approved works:			repair to existing shoreline landscaping works		Project Location: 126 Kingston Beach <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-097	28-Apr-20	12-May-20	Brooke		Township of Georgian Bluffs	Keppel Township
Approved works:			Placement of fill and grading associated with a residential dwelling		Project Location: 24th Street West <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Mac Plewes	
GS20-120	11-May-20	12-May-20	6	22	Town of South Bruce Peninsula	Amabel Township
Approved works:			Replacement of an existing culvert		Project Location: Northacres Road; Long: -81.1666, Lat: 44.7425 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	

Permit #:	Date Applied:	Date Issued:	Lot:	Conc:	Municipality:	Former Municipality:
GS20-093	22-Apr-20	12-May-20			Municipality of Meaford	Town of Meaford
Approved works:			repair to existing shoreline landscaping works		Project Location: 495 Grandview Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-022	11-Feb-20	12-May-20	17	1	Township of Georgian Bluffs	Sarawak Township
Approved works:			Construction of a 30 x 40 addition to an accessory structure		Project Location: 303352 Indian Acres Road <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Mac Plewes	
GS20-100	28-Apr-20	13-May-20	Part Lot	6 WBR	Town of South Bruce Peninsula	Albemarle Township
Approved works:			Construction of a garage and associated site alterations		Project Location: 1138 Sunset Drive <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-101	29-Apr-20	13-May-20	Part Lot	12 EBR	Town of South Bruce Peninsula	Albemarle Township
Approved works:			replacement of an existing deck		Project Location: 2 8th Avenue <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-102	30-Apr-20	13-May-20	Part Lot	C	Town of South Bruce Peninsula	Amabel Township
Approved works:			replacement of patio works, landscaping works and associated site alterations		Project Location: 48 Shore Road <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Lauren McGregor	
GS20-112	04-May-20	13-May-20	Part Lot	4	Town of South Bruce Peninsula	Amabel Township
Approved works:			Construction of a storage building and associated site alterations		Project Location: 13 Crooked Hill Road <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-103	27-Apr-20	15-May-20			Town of the Blue Mountains	Thornbury
Approved works:			construction of a 768 sq. ft. garage and associated site alterations		Project Location: 111 Faircrest Lane <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Justine Lunt	

Permit #:	Date Applied:	Date Issued:	Lot:	Conc:	Municipality:	Former Municipality:
GS20-098	28-Apr-20	15-May-20	30	8	Town of the Blue Mountains	Collingwood Township
Approved works:			repair to existing shoreline protection works and construction of attached deck		Project Location: 111 Fieldcrest Court <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-114	07-May-20	15-May-20	9	7	Township of Georgian Bluffs	Keppel Township
Approved works:			Construction of a porch addition		Project Location: 385 Princess Street <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Mac Plewes	
GS20-082	20-Apr-20	15-May-20	Part Lot	12	Municipality of Grey Highlands	Artemesia Township
Approved works:			Installation of a culvert liner		Project Location: Grey Road 13: Long: -80.5279, Lat: 44.3390 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-084	20-Apr-20	15-May-20	Part Lot	5	Municipality of Grey Highlands	Euphrasia Township
Approved works:			Culvert replacement		Project Location: Grey County Road 30; Long: -80.5400, Lat: 44.3731 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-085	20-Apr-20	15-May-20	Part Lots	4	Municipality of Grey Highlands	Euphrasia Township
Approved works:			Culvert replacement		Project Location: Grey County Road 40; Long: -80.5547, Long: 44.5090 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-086	20-Apr-20	15-May-20	Part Lot	4	Municipality of Grey Highlands	Euphrasia Township
Approved works:			Culvert replacement		Project Location: Grey County Road 13; Long: -80.5317, Lat: 44.4068 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-087	20-Apr-20	15-May-20	Part Lot	3	Municipality of Grey Highlands	Euphrasia Township
Approved works:			Culvert and roadside ditch cleanout		Project Location: Grey County Road 13; Long: -80.5237, Lat: 44.4295 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	

Permit #:	Date Applied:	Date Issued:	Lot:	Conc:	Municipality:	Former Municipality:
GS20-026	02-Feb-20	21-May-20	15	2	Township of Chatsworth	Holland Township
Approved works:			Replacement of a bridge with a pre-cast box culvert		Project Location: Elder Lane approximately 450 m south of Highway 10 <input type="checkbox"/> construct <input checked="" type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Mac Plewes	
GS20-041	14-Feb-20	21-May-20	51	12	Town of Collingwood	Town of Collingwood
Approved works:			repair to existing shoreline protection works		Project Location: 45 Madeline Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-099	27-Apr-20	22-May-20	Part Lot	11 EBR	Town of South Bruce Peninsula	Albemarle Township
Approved works:			shoreline protection works		Project Location: 172 Hope Bay Road <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-096	28-Apr-20	22-May-20	36	11	Town of the Blue Mountains	Collingwood Township
Approved works:			repair to existing shoreline protection works		Project Location: 111 Lake Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-127	21-May-20	25-May-20	21	1	Town of the Blue Mountains	Collingwood Township
Approved works:			Improvements to shoreline protection.		Project Location: 229 Brophy's Lane <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Andrew Sorensen	
GS20-091	23-Apr-20	25-May-20			Municipality of Meaford	Town of Meaford
Approved works:			addition to shoreline protection works		Project Location: 375 Aiken Street <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	
GS20-094	23-Apr-20	26-May-20	21	1	Town of the Blue Mountains	Town of the Blue Mtns.
Approved works:			repair to existing shoreline protection works		Project Location: 133 Blue Mountain Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	

Permit #:	Date Applied:	Date Issued:	Lot:	Conc:	Municipality:	Former Municipality:
GS20-088	20-Apr-20	26-May-20	14	Colpoys Range	Township of Georgian Bluffs	Keppel Township
Approved works:			Renaturalize Existing Shoreline Revetment		Project Location: 502325 Grey Road 1 <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Mac Plewes	
GS20-111	06-May-20	26-May-20	27	6	Municipality of Meaford	St Vincent Township
Approved works:			addition to existing shoreline protection works		Project Location: 235 Cedar Avenue <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Jacob Kloeze	
GS20-129	22-May-20	28-May-20	Part Lot	D	Town of South Bruce Peninsula	Amabel Township
Approved works:			Repair of existing retaining wall and associated site alterations		Project Location: 71 Lonely Island Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-143	27-May-20	28-May-20	Part Lot	8	Municipality of Grey Highlands	Osprey Township
Approved works:			Replacement of a failing septic and associated site alterations		Project Location: 454172 Road 45 <input checked="" type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input checked="" type="checkbox"/> fill Lauren McGregor	
GS20-122	14-May-20	28-May-20	Part Lot	D	Town of South Bruce Peninsula	Amabel Township
Approved works:			reconstruction of the existing breakwall using gabion and rip rap and associated site alterations		Project Location: 22 Charlesworth Crescent <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Lauren McGregor	
GS20-115	07-May-20	29-May-20	37	11	Town of the Blue Mountains	Collingwood Township
Approved works:			repair to existing shoreline protection works		Project Location: 173 Lake Drive <input type="checkbox"/> construct <input type="checkbox"/> alter watercourse <input checked="" type="checkbox"/> shoreline Reviewed by: <input type="checkbox"/> alter structure <input type="checkbox"/> alter wetland <input type="checkbox"/> fill Jacob Kloeze	

GREY SAUBLE CONSERVATION AUTHORITY
RECEIPTS
May 1st - 31st, 2020

FROM

Regulation Permits	\$	13,730.00	
Planning	\$	10,360.00	
Land Leases	\$	1,695.00	
Self-Serve Parking Fees	\$	272.00	12 Day and 5 Season Passes
Day Camp	-\$	630.88	Revenues Minus Refunds
2nd Levy Installment	\$	239,823.76	Georgian Bluffs, TOSBP, Meaford, TOBM
RMO	\$	3,500.00	
TD Friends of the Environment	\$	4,244.38	Inglis Falls Youth Tree Planting
Funds Owed to Foundation	\$	225.00	Memorial Forest Trees
Donations	\$	173.00	Canada Helps and Reforestation
May Receipts	\$	273,392.26	

GREY SAUBLE CONSERVATION AUTHORITY

EXPENSES

May 1st - 31st, 2020

11120	Bruce Telecom	\$	526.56	Telephone & Equipment Charges
11121	Rita McGee	\$	25.00	OPFA Provisional Member Application Fee
11122	Excel Business Systems	\$	19.29	DWSP Copy and Print Charges
11123	Bell Canada	\$	175.16	Monthly Services - April 2020
11124	Town of The Blue Mountains	\$	1,532.00	Property Tax - 2nd Installment
11125	Directdial	\$	1,722.12	IT Equipment for Remote Work
11126	Doreen Robinson	\$	39.43	Hook Up of Internet for GSCA Use
11127	Baker Tilly	\$	11,300.00	Fees for 2019 Audit
11128	Georgian Bay Chemical	\$	146.40	Forestry Gloves and Disinfectant
11129	Earth Power Tractors And Equipr	\$	467.81	Equipment Repair
11130	Kilsyth Auto Service Ltd.	\$	2,009.98	Vehicle Repair and Maintenance
11131	MacDonnell Fuels Limited	\$	1,052.66	Vehicle Fuel & Furnace Oil
11132	J.J. MacKay Canada Limited	\$	19.50	Self Serve Transaction Fees
11133	DPOC	\$	428.81	Postage Add-on for Postage Machine
11134	Miller Waste Systems Inc.	\$	78.76	Regular Garbage Service
11135	Rogers Wireless	\$	551.59	Cell Phone Usage
11136	Town of South Bruce Peninsula	\$	2,187.00	Property Tax - 2nd Installment
11137	The Cleaning Brigade	\$	723.20	Office Cleaning - March and April
	Mastercard Payments	\$	3,070.13	
	Moneris, Copier	\$	205.52	includes DWSP copier
	Self-Serve Moneris Fees	\$	22.22	
	Hydro, Reliance	\$	2,107.31	
	Receiver General, EHT, WSIB Q1 HST	\$	34,997.82	
	Buffet Taylor Group Benefits	\$	8,384.61	paid via payroll transfer
	May Payroll	\$	76,519.96	
	May Expenses	\$	148,312.84	



20 May 2020

The Right Honourable Justin Trudeau, P.C., M.P.
 Prime Minister of Canada
 Office of the Prime Minister
 80 Wellington Street
 Ottawa, Ontario K1A 0A2

Subject: Natural Infrastructure is an Integral Part of Green Recovery

Dear Prime Minister:

Natural infrastructure¹ projects create good jobs, support local supply chains, and provide a variety of environmental, social, and health benefits. Natural infrastructure can also reduce capital and operating costs for municipalities and Indigenous communities to provide essential services. Support for natural infrastructure solutions as part of a post-COVID green recovery stimulus would help to realize all of these benefits, as well as meeting specific mandates across several federal departments, including Infrastructure, Environment and Climate Change, Natural Resources, Agriculture and Agri-Food, and Public Safety.² The case is strong for the value these solutions hold both in advancing climate resilience, disaster risk reduction, enhanced biodiversity and supporting economic recovery.

This letter provides detailed recommendations for short- and medium-term investment in natural infrastructure as an integral part of Canada's economic recovery from the COVID crisis and its long-term resilience to climate change. Financial support for smaller, job-rich natural infrastructure projects across the country will create benefits that go beyond any one project. In addition to their positive economic impact, natural infrastructure projects can be implemented much more quickly than large-scale grey infrastructure projects to provide climate resilience (e.g., inland flood protection, coastal protection, and mitigation of urban heat island effects) while offering additional benefits (as compared to their grey alternatives), such as improved water quality, supporting biodiversity, and (perhaps most importantly in these challenging times) offering mental health benefits. In short, investment in natural infrastructure will allow us to build back better. In order to realize all of these benefits, our specific recommendations³ are:

- 1. Get money moving:** Expedite funding to: 1) projects that are "shovel-ready" and "shovel-worthy"; and 2) to readiness-assessments and other early stage support to create an ongoing pipeline of fundable projects. Benefits include immediate jobs and support for local supply chains. Indigenous peoples must be engaged in all projects impacting their traditional territories, consistent with the principles of free, prior and informed consent as set out in the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP).
- 2. Keep money moving:** Modify existing programs, such as the Disaster Mitigation and Adaptation Fund (DMAF) and the Investing in Canada Infrastructure Program (ICIP) to address current barriers for natural infrastructure projects. Concurrently, continue to fund ongoing monitoring, measurement and evaluation of initial "shovel-ready" projects.
- 3. Sustained support:** Enable integrated policy, programs and legislation over the longer-term, including the establishment of a dedicated natural infrastructure fund.

¹ Natural Infrastructure solutions use "preserved, restored or enhanced ecosystem features and materials (e.g., water, native species of vegetation, sand and stone, etc.) to meet targeted infrastructure outcomes, while providing a range of ancillary benefits to the environment, the economy, community health and well-being." From: Natural Infrastructure Framework: Key Concepts, Definitions and Terms. Canadian Council of Minister of the Environment (Final Draft).

² See Appendix 2 for a summary of mandates that support natural infrastructure investment.

³ See Appendix 1 to this letter for detailed recommendations on what's needed across programs and policies to support these recommendations.

The case for the benefits of natural infrastructure is becoming increasingly clear. A recent report released by the Green Infrastructure Ontario Coalition highlights the economic impact of natural infrastructure solutions in Ontario. It calculated that the sector contributed \$8.33 billion in GDP and 122,000 jobs in the province in 2018.⁴ Comparing that to Ontario's total sector jobs, that aligns it just behind the real estate sector (which employed an estimated 166,000). Previous reports, such as from the Intact Centre on Climate Adaptation, the International Institute for Sustainable Development⁵ and the Insurance Bureau of Canada⁶ have highlighted the high return on investment in natural infrastructure projects across Canada, for climate resilience and disaster risk reduction, in particular, to flooding, which has emerged as the costliest and most pervasive natural disaster nationally in the past decade. In addition, a 2019 Environment and Climate Change Canada commissioned report found that for comparable infrastructure outcomes, nature-based infrastructure solutions provide significant additional benefits and more often at much lower cost as compared to grey alternatives.⁷

Beyond the size of the sector, natural infrastructure efforts require the collaboration of a diversity of partners, including: municipal planners, landscape architects, engineers, biologists, farmers, non-governmental organizations and academics (to name just a few). This diversity of partners also reflects the diversity of employment opportunities from design, to project management, to site construction, to horticulture, and long-term maintenance, evaluation and monitoring.

There are thousands of "shovel-ready" and "shovel-worthy" projects across the country and within Indigenous communities. Research by a number of groups, including a pending analysis by the Our Living Waters Network, adds fodder to the mounting evidence on the opportunities, citing projects across the country, communities, and nations. The more than 250 curated projects cover a diverse range of works, including: creek restorations; rain gardens; household green infrastructure tools; efforts to fill science and data gaps; flood management; wetland restoration in both urban and agricultural communities; tree plantings; and bioswales. In addition, organizations such as the Municipal Natural Assets Initiative have proven methodologies and tools to help local governments assess, plan and implement natural asset management projects that deliver core local government services. Deploying these methods as part of a larger investment in natural infrastructure would help local governments plan and design effective projects for funding under existing programs, such as DMAF and ICIP.

In addition, organizations such as the Municipal Natural Assets Initiative have proven methodologies and tools to help local governments assess, plan and implement natural asset management projects that deliver core local government services. Deploying these methods as part of a larger investment in natural infrastructure would help local governments plan and design effective projects for funding under existing programs such as the Disaster Mitigation and Adaptation Fund (DMAF) and the Investing in Canada Infrastructure Program (ICIP).

There are also numerous projects that have been cancelled or put on hold due to the economic downturn, which could quickly and easily be revitalized with renewed funding. In many cases plans have already been developed, but projects cannot move forward due to lack of money to hire staff or purchase supplies.

Our consortium will continue our efforts to develop a long-term roadmap to ensure that the natural infrastructure movement is normalized municipally, provincially and federally. In looking to solve our infrastructure challenges across the country, natural infrastructure solutions will be a top priority.

There is no silver lining in the devastation that COVID-19 has brought to our communities, our households, our country. We can, however, make sure that the responsive investments truly advance more resilient, healthy and sustainable communities into the future. We welcome and request the opportunity to explore this conversation with you all in more detail.

Signed,

List of signatories below

cc: Hon. Catherine McKenna, Minister of Infrastructure and Communities
Hon. Jonathan Wilkinson, Minister of Environment and Climate Change
Hon. Seamus O'Regan, Minister of Natural Resources
Hon. Marie-Claude Bibeau, Minister of Agriculture and Agri-Food
Hon. Bill Blair, Minister of Minister of Public Safety and Emergency Preparedness
Hon. Steven Guilbeault, Minister of Canadian Heritage

Attachments:

Appendix 1 - Policy and Program Recommendations to Support Natural Infrastructure Investment

Appendix 2 - Mandates Supporting Natural Infrastructure Investments

⁴ https://greeninfrastructureontario.org/app/uploads/2020/04/Economic-Impact-Assessment-of-GI-Sector-in-Ontario_Online.pdf

⁵ <https://www.iisd.org/sites/default/files/publications/savi-pellys-lake-stephenfield-canada-en.pdf>

⁶ <http://assets.ibc.ca/Documents/Resources/IBC-Natural-Infrastructure-Report-2018.pdf>

⁷ <https://www.horizonadvisors.org/natural-infrastructure-benefits>

List of Signatories (Alphabetical by Organization)

Lara Ellis	Senior Vice-President	ALUS Canada
Silke Nebel	Vice-President, Conservation and Science	Birds Canada
Theresa McClenaghan	Executive Director and Counsel	Canadian Environmental Law Association
Lindsay Telfer	National Director	Canadian Freshwater Alliance
Florence Daviet	National Forest Program Director	Canadian Parks and Wilderness Society
Glenn O'Connor	President	Canadian Society of Landscape Architects
Robert Haller	Executive Director	Canadian Water and Wastewater Association
David Allen	Chief Administrative Officer	City of Courtenay
Catherine Abreu	Executive Director	Climate Action Network Canada
Rik Logtenberg	Executive Director	Climate Caucus
Daimen Hardie	Executive Director	Community Forests International
Hassaan Basit	Chief Administrative Officer	Conservation Halton
Kim Gavine	General Manager	Conservation Ontario
Jay Ritchlin	Director-General, Western Canada	David Suzuki Foundation
James Brennan	Director of Government Affairs	Ducks Unlimited Canada
Velta Tomsons	Living City Program Manager	Ecology Ottawa
Tim Gray	Executive Director	Environmental Defence
Rob Keen	Chief Executive Officer	Forests Ontario / Forest Recovery Canada
Amy Taylor	Chief Executive Officer	Green Analytics
Sé Keohane	Acting Executive Director	Green Communities Canada
Jennifer Court	Executive Director	Green Infrastructure Ontario Coalition
Edward McDonnell	Chief Executive Officer	Greenbelt Foundation
Amin Asadollahi	Executive Director	Horizon Advisors
Sean Cleary	Executive Director	Institute for Sustainable Finance, Queen's University
Craig Stewart	Vice-President, Federal Affairs	Insurance Bureau of Canada
Natalia Moudrak	Director of Climate Resilience	Intact Centre on Climate Adaptation, University of Waterloo
Jane McDonald	Executive Vice President	International Institute for Sustainable Development
Philippe Gachon	Director General of RIISQ	Intersectorial Flood Network of Québec, University of Québec at Montréal
Nancy Flood	President	Kamloops Naturalist Club
Anastasia M Lintner	Principal	Lintner Law
Stephen Huddart	President and Chief Executive Officer	McConnell Foundation
Andre Vallillee	Environment Program Director	Metcalf Foundation
Roy Brooke	Executive Director	Municipal Natural Assets Initiative
Graham Saul	Executive Director	Nature Canada
Robert P. Wilson	Director, Conservation Finance	Nature Conservancy of Canada
Steve Hounsell	Chair	Ontario Biodiversity Council
Andrew Stegemann	Director	Our Living Waters
Isabelle Turcotte	Director, Federal Policy	Pembina Institute
Frances Braceland	Project Manager, Souris and Area Branch	PEI Wildlife Federation
Sébastien Doiron	Planning Director	Southeast Regional Service Commission
Joanna Kerr	President and Chief Executive Officer	Tides Canada
Aaron Hill	Executive Director	Watershed Watch Salmon Society
Mary MacDonald	Senior Vice President and Chief Conservation Officer	World Wildlife Fund - Canada

Appendix 1 - Policy and Program Recommendations to Support Natural Infrastructure Investment

1 Get Money Moving

The following actions could be taken to support quick movement of money and resources in support of natural infrastructure.

- a. Expand funding and support for municipality and community “readiness” assessments and preparation for future work, including:
 - i. Greenhouse Gas (GHG) assessments (ECCC / INFC);
 - ii. Climate risk analysis and adaptation planning (ECCC);
 - iii. Species at Risk (SAR) assessments (ECCC);
 - iv. Afforestation and deforestation reduction (ECCC / NRCAN);
 - v. Natural asset and regulatory barrier assessments (INFC / ECCC) to develop and support the application of tools to quantify natural infrastructure benefits (GHG, water quality, biodiversity, costs etc.).
- b. Make immediate funding available to advance natural infrastructure projects via a “start up” Natural Infrastructure Fund (INFC) and monitoring program (INFC and ECCC). This would include:
 - i. Support for pilot initiatives;
 - ii. Establishing standardized monitoring and evaluation;
 - iii. Strengthening local supply chain for native plants and saplings;
 - iv. Support across sectors including small businesses, municipalities, science and academic institutions, and non-governmental organizations.

2 Keep Money Moving

via medium term investments and adjustments in existing programs.

- a. Revise infrastructure funding program requirements, including DMAF and ICIP to facilitate broader NI investment (INFC w/ ECCC). Specifically:
 - i. Remove or revise capital asset and expenditure requirements to better incent natural infrastructure initiatives;
 - ii. Enable strategies for getting smaller, more numerous, funding dockets out the door (using intermediaries for example)
 - iii. Reducing bottle-necking by easing multiple jurisdiction requirements.
- b. Fund science gaps as needed to support the development of tools, procedures and open-access data hubs to support publicly accessible data analysis (ECCC and NRCAN);
- c. Develop an ecosystem GHG emissions and biodiversity screen for infrastructure investment/ criteria to assess the GHG emissions from downstream impacts of destroying natural assets for climate resilience and disaster risk reduction.

3 Sustained Support

via policy evolution and programs for mainstreaming.

- a. Develop simplified GHG offset protocol or other incentive programs for “natural asset” landowners (ECCC);
- b. Support the development of clear metrics for natural infrastructure outcomes, such as lower costs related to disasters, and cleaner water;
- c. Develop public-private finance mechanisms to advance natural infrastructure solutions;
- d. Support the development of consistent and clear regulations and policy tools in provinces and municipalities that prioritize natural infrastructure options for infrastructure needs, (for example, to allow natural assets in public service accounting frameworks, more stringent requirements to manage stormwater on site, etc.);
- e. Establish an inter-departmental working group alongside an expert advisory committee to streamline ministry programs, identify government-wide targets, monitoring and outcome measure for natural infrastructure projects across ministries (INFC, ECCC, AAFC, NRCAN, PSC, DFO);
- f. Support education and professional development of the sector.

Appendix 2 - Mandates Supporting Natural Infrastructure Investments

The benefits of natural infrastructure support a number of priority mandates across federal departments:

Mandate References that Support Natural Infrastructure Investment	Departments
Launch a new call for proposals under the Disaster Mitigation and Adaptation Fund to address the impacts of climate change, adjusting the program as required to ensure that the most impactful projects are supported, including those related to natural infrastructure, whether they are from small, rural and Indigenous communities or large urban centres.	INFC
Work with the Federation of Canadian Municipalities through the Green Municipal Fund, the Municipalities for Climate Innovation Program and the Municipal Asset Management Program to build climate resilience, reduce greenhouse gas emissions, make better decisions, and monitor investments and ensure they reduce emissions from residential, commercial and multi-unit buildings.	INFC
Implement the Pan-Canadian Framework on Clean Growth and Climate Change, while strengthening existing and introducing new greenhouse gas reducing measures to exceed Canada's 2030 emissions reduction goal and beginning work so that Canada can achieve net-zero emissions by 2050.	ECCC
operationalize the plan to plant two billion incremental trees over the next 10 years, as part of a broader commitment to nature-based climate solutions that also encompasses wetlands and urban forests.	NRCAN ECCC
Create a new Canada Water Agency to work together with the provinces, territories, Indigenous communities, local authorities, scientists and others to find the best ways to keep our water safe, clean and well-managed	ECCC AAFC
Help cities expand and diversify their urban forests. You will both also invest in protecting trees from infestations and, when ecologically appropriate, help rebuild our forests after a wildfire.	NRCAN ECCC
Complete all flood maps in Canada.	ECCC NRCAN
Introduce new greenhouse gas reducing measures to exceed Canada's 2030 emissions reduction goal and begin work so that Canada can achieve net-zero emissions by 2050.	ECCC
A new ambitious plan to conserve 25 percent of Canada's land and 25 percent of Canada's oceans by 2025, working toward 30 percent of each by 2030.	ECCC
Develop further protections and take active steps to clean up the Great Lakes, Lake Winnipeg, Lake Simcoe and other large lakes.	ECCC
Continue to work to protect biodiversity and species at risk, while engaging with provinces, territories, Indigenous communities, scientists, industry and other stakeholders to evaluate the effectiveness of the existing Species at Risk Act and assess the need for modernization.	ECCC
Support research and provide funding so that municipalities have access to domestic sources of climate-resilient and genetically diverse trees that will increase the resilience of our urban forests.	NRCAN
Work with the Minister of Families, Children and Social Development, who is the Minister responsible for the Canada Mortgage and Housing Corporation, to create a new low-cost national flood insurance program to protect homeowners at high risk of flooding and without adequate insurance protection, as well as to develop a national action plan to assist homeowners with potential relocation for those at the highest risk of repeat flooding.	PSC



June 3, 2020

The Honourable Jeff Yurek
Minister of Environment, Conservation and Parks (MECP)
777 Bay Street, 5th Floor
Toronto, ON, M7A 2J3

Sent via email to: minister.mecp@ontario.ca

Re: Conservation Authorities: Next Steps

Dear Minister Yurek,

On behalf of our member conservation authorities (CAs), I am writing to lend our support for AMO's May 19th letter to you in which they express concerns about the next steps to be taken with Conservation Authorities.

It is understood and supported that managing COVID-19 related activities is everyone's immediate priority, and, it is also agreed that moving forward in the transformation of the Conservation Authority and municipal relationship needs to occur in a manageable way.

Conservation Ontario has been surveying the CAs on disruptions and impacts to their delivery of programs and services, as well as, considering how we can support all levels of government in economic stimulus and job recovery during and post-COVID-19. While the impact is variable across the CA community, all have experienced significant revenue reductions, which in some cases has resulted in layoffs of permanent staff and seasonal staff not being hired (including some who support the flood management program), cancellation of programs (many of which are revenue-generating), and, closure of conservation areas. All these impacts have certainly had broader impacts to the local economies across the Province but can be resolved with time, collaboration and support tools. CAs are very keen to support all levels of government in economic recovery and job creation with shovel ready projects.

Conservation Authorities share AMO's concerns with regard to the impacts of COVID-19 on municipal (and CA) workloads. In particular, we have heard concerns with regard to the potential additional complexity to the CA/municipal budgeting process if there are no clear communication protocols and tools available to facilitate changes that CAs and municipalities will need to implement. Some conservation authorities and municipalities have even gone so far as to suggest that this is not the right time to be creating any new pressures on CA/Municipal budget


processes, particularly in the midst of dealing with impacts from COVID-19 and the need for economic recovery.

The above is one example of challenges that might be experienced in implementing amendments made under the *Conservation Authorities Act*. As you and your staff move forward with finalizing your analysis of feedback from consultations to date, we ask that the Ministry meet with Conservation Ontario staff and AMO staff jointly to discuss outcomes and approaches to move forward efficiently.

Finally, Conservation Ontario also supports the Province moving forward as expeditiously as possible to finalize the Section 28 regulation consultations being led by the Ministry of Natural Resources and Forestry [i.e. ERO#013-4992: "Focusing conservation authority development permits on the protection of people and property"] as well as updates to the supporting technical guides. Progress in this important business area would be consistent with concerns raised in the MECP Stakeholder Engagement sessions, and with priorities identified in the Made-in-Ontario Environment Plan, and, Ontario's Flooding Strategy. The Section 28 Regulations are a critical component of Ontario's approach to reducing risks posed by flooding and other natural hazards and strengthening Ontario's resiliency to extreme weather events.

Thank you for your consideration in support of all our efforts to continue to serve Ontarians during these challenging times while moving forward on your vision for Conservation Authorities in Ontario. We look forward to continuing to work together in this regard and CO staff are available at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Wayne Emmerson". The signature is fluid and cursive, with the first name "Wayne" written in a larger, more prominent script than the last name "Emmerson".

Wayne Emmerson
Chair, Conservation Ontario

c.c.

The Honourable John Yakabuski, Minister of Natural Resources and Forestry
The Honourable Steve Clark, Minister of Municipal Affairs and Housing (MMAH)
Jamie McGarvey, President, Association of Municipalities of Ontario
CAOs, All Conservation Authorities



MOTION

Grey Sauble Authority Board of Directors

MOTION

DATE: June 24th, 2020

MOTION #: FA-20-050

MOVED BY: _____

SECONDED BY: _____

Recommended Consent Agenda Motion

THAT in consideration of the Consent Agenda Items listed on the June 24th, 2020, agenda, the Grey Sauble Conservation Authority Board of Directors receives the following items: i) Environmental Planning - Section 28 Permits – May 2020; ii) Administration - Receipts & Expenses – May 2020; iii) Correspondence: a) Letter from CO and multiple signatories to Prime Minister Trudeau regarding the Value of Natural Infrastructure as an Integral Part of Green Recovery – May 20, 2020; b) Letter from CO to Minister Yurek regarding Next Steps in the Conservation Authorities Act Review – June 3, 2020

**GREY SAUBLE
CONSERVATION AUTHORITY**

FINANCIAL REPORT

DECEMBER 31, 2019

Draft for Discussion

GREY SAUBLE CONSERVATION AUTHORITY

DECEMBER 31, 2019

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GREY SAUBLE CONSERVATION AUTHORITY

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL REPORT

The accompanying financial statements of the Grey Sauble Conservation Authority ("the Authority") are the responsibility of the Authority's management and have been prepared in accordance with Canadian public sector accounting standards, established by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada, as described in Note 1 to the financial statements.

The preparation of financial statements necessarily involves the use of estimates based on management's judgment, particularly when transactions affecting the current accounting period cannot be finalized with certainty until future periods.

The Authority's management maintains a system of internal control designed to provide reasonable assurance that assets are safeguarded, transactions are properly authorized and recorded and reliable financial information is available on a timely basis for preparation of the financial statements. These systems are monitored and evaluated by management. Board of Directors meet with management and the external auditor to review the financial statements and discuss any significant financial reporting or internal control matters prior to their approval of the financial statements.

The financial statements have been audited by Baker Tilly SGB LLP, the independent external auditor appointed by the Authority. The accompanying Independent Auditor's Report outlines their responsibilities, the scope of their examination and their opinion on the Authority's financial statements.

Chief Administrative Officer
June 24, 2020

Finance Coordinator
June 24, 2020

INDEPENDENT AUDITOR'S REPORT

To the Board of Directors of Grey Sauble Conservation Authority:

Opinion

We have audited the financial statements of the Grey Sauble Conservation Authority "(the Authority)", which comprise the statement of financial position as at December 31, 2019, and the statements of operations, change in net financial assets and cash flow for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Authority as at December 31, 2019, and its results of operations and cash flows for the year then ended in accordance with Canadian public sector accounting standards.

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Authority in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with Canadian public sector accounting standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Authority's ability to continue as a going concern, disclosing, as applicable, matters relating to going concern and using the going concern basis of accounting unless management either intends to liquidate the Authority or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Authority's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Authority's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Authority to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Baker Tilly SQB LLP

Licensed Public Accountants
Collingwood, Ontario
June 24, 2020

GREY SAUBLE CONSERVATION AUTHORITY

STATEMENT OF FINANCIAL POSITION AS AT DECEMBER 31

	2019	2018
	\$	\$
Financial assets		
Cash - Operating fund (Note 2)	511,779	384,579
Cash - Reserve funds (Note 2)	484,602	451,161
Accounts receivable (Note 11)	144,848	212,588
Investment portfolio - Reserve funds (Note 3)	1,159,875	1,129,505
Accounts receivable - government partnership (Note 12)	96,851	49,359
	2,397,955	2,227,192
Liabilities		
Accounts payable and accrued liabilities (Note 11)	168,724	192,580
Other payables (Note 5)	44,662	32,404
Government remittances payable	43,615	30,612
Deferred revenue (Note 6)	212,443	178,776
	469,444	434,372
Net financial assets	1,928,511	1,792,820
Non-financial assets		
Prepaid expenses	22,199	34,058
Tangible capital assets (Note 7)	7,822,247	7,903,190
	7,844,446	7,937,248
Accumulated surplus (Note 8)	9,772,957	9,730,068

Approved _____ Director
 _____ Director

The accompanying notes are an integral part of
these financial statements

GREY SAUBLE CONSERVATION AUTHORITY

STATEMENT OF OPERATIONS FOR THE YEAR ENDED DECEMBER 31

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
	(Note 10)		
Revenue			
Municipal levies	1,388,556	1,388,556	1,335,481
Government grants - operating	166,924	135,605	142,347
Government grants - Risk assessment of flood hazards (Note 12)	164,816	47,530	30,741
Government grants - capital	-	-	13,445
Grey Sauble Forestry/Ontario Trees	233,330	231,715	203,742
Grey County Forestry Management	169,498	144,362	180,778
Timber and wood sales	140,100	71,334	47,835
User fees	475,604	506,102	449,260
Sourcewater protection	158,738	165,391	232,570
Rental recoveries (net of \$55,112 expense; 2018 - \$55,917)	26,121	17,195	18,091
Donations	1,600	7,410	26,664
Contributed tangible capital assets (Note 7)	-	-	46,000
Risk management	76,679	69,011	100,166
Miscellaneous (Note 11)	19,788	29,337	8,482
Interest earned (Note 11)	2,500	15,264	7,464
Income on reserve accounts (Note 3)	-	53,856	62,702
	3,024,254	2,882,668	2,905,768
Expenses			
Water management	150,482	118,437	127,695
Environmental planning	571,427	558,536	438,905
Forestry			
-Operations on Authority land	168,297	132,655	168,443
-Grey Sauble Forestry/Ontario Trees	233,330	242,642	181,011
-Grey County Forest Management	149,542	126,778	133,200
Conservation lands policy and procedure	173,722	169,740	160,810
Conservation lands operations	254,914	245,031	251,641
Conservation information and education	140,156	121,685	128,798
Administrative support	532,793	494,916	521,613
Major projects	7,066	1,931	14,595
Miscellaneous	-	10,533	7,682
Source water risk management	43,428	78,949	80,295
Sourcewater protection	158,738	165,391	232,570
GIS/IT department	355,765	206,266	169,519
Risk assessment of flood hazards (Note 12)	-	46,894	30,181
Loss on disposal of tangible capital assets	-	1,141	2,042
Amortization of tangible capital assets	-	118,254	132,984
	2,939,660	2,839,779	2,781,984
Annual surplus (Note 10)	84,594	42,889	123,784
Accumulated surplus, beginning of year	9,730,068	9,730,068	9,606,284
Accumulated surplus, end of the year (Note 8)	9,814,662	9,772,957	9,730,068

The accompanying notes are an integral part of
these financial statements

GREY SAUBLE CONSERVATION AUTHORITY

STATEMENT OF CHANGE IN NET FINANCIAL ASSETS FOR THE YEAR ENDED DECEMBER 31

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
	(Note 10)		
Annual surplus	84,594	42,889	123,784
Acquisition of tangible capital assets	-	(38,452)	(31,370)
Amortization of tangible capital assets	-	118,254	132,984
Loss on disposal of tangible capital assets	-	1,141	2,042
Proceeds on disposal of tangible capital assets	-	-	4,425
Contributed tangible capital assets	-	-	(46,000)
Change in prepaid expenses	-	11,859	(6,102)
Change in net financial assets	84,594	135,691	179,763
Net financial assets, beginning of year	1,792,820	1,792,820	1,613,057
Net financial assets, end of year	1,877,414	1,928,511	1,792,820

The accompanying notes are an integral part of
these financial statements

GREY SAUBLE CONSERVATION AUTHORITY

STATEMENT OF CASH FLOW FOR THE YEAR ENDED DECEMBER 31

	2019	2018
	\$	\$
Cash flows from (for):		
Operating activities		
Annual surplus	42,889	123,784
Non-cash items:		
Amortization of tangible capital assets	118,254	132,984
Loss on disposal of tangible capital assets	1,141	2,042
Contributed tangible capital assets	-	(46,000)
	162,284	212,810
Changes in:		
Accounts receivable	67,740	(112,100)
Accounts receivable - government partnership	(47,492)	(49,359)
Accounts payable and accrued liabilities	(23,857)	(22,004)
Other payables	12,258	7,259
Government remittances payable	13,004	(18,276)
Deferred revenue	33,667	91,728
Prepaid expenses	11,859	(6,102)
	229,463	103,956
Investing activities		
Increase in investment portfolio	(30,370)	(41,470)
Capital activities		
Acquisition of tangible capital assets (Note 7)	(38,452)	(31,370)
Proceeds on disposal of tangible capital assets	-	4,425
	(38,452)	(26,945)
Net change in cash position	160,641	35,541
Cash, beginning of year	835,740	800,199
Cash, end of year	996,381	835,740
Comprised of:		
Cash - Operating fund	511,779	384,579
Cash - Reserve funds	484,602	451,161
	996,381	835,740

The accompanying notes are an integral part of
these financial statements

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

Nature of Operations

The Grey Sauble Conservation Authority ("the Authority") is established under the Conservation Authorities Act of Ontario to further the conservation, restoration, development and management of natural resources, other than gas, oil, coal and minerals, for the watersheds within its area of jurisdiction. The watersheds include areas in the Municipalities of Arran-Elderslie, Grey Highlands and Meaford, the Town of The Blue Mountains and the Town of South Bruce Peninsula, the Townships of Chatsworth and Georgian Bluffs and the City of Owen Sound.

The Authority's mission is:

"In partnership with the stakeholders of the watershed, to promote and undertake sustainable management of renewable natural resources and provide responsible leadership to enhance bio-diversity and environmental awareness."

The Authority is a registered charity and is exempt from income taxes.

1. Summary of Significant Accounting Policies

The financial statements are the representation of management prepared in accordance with Canadian generally accepted accounting principles for organizations operating in the local government sector as recommended by the Public Sector Accounting Board of The Chartered Professional Accountants of Canada. Significant aspects of the accounting policies adopted by the Authority are as follows:

(a) Basis of Accounting

Sources of revenue and expenses are reported on the accrual basis of accounting. The accrual basis of accounting recognizes revenues as they become available and measurable. Expenses are recognized as they are incurred and measurable as a result of receipt of goods or services and the creation of a legal obligation to pay.

A government partnership exists where the Authority has a shared control over an entity. The Authority's pro-rata share of assets, liabilities, revenues and expenses are reflected in the financial statements using the proportionate consolidation method. The Authority's proportionate interest of the following government partnership is reflected in the financial statements:

Risk Assessment of Flood Hazards in the Georgian Bay Shoreline Areas of Grey County - 27.54%

(b) Cash and Cash Equivalents

Cash and cash equivalents include cash on deposit and short-term deposits with a maturity of less than three months at acquisition.

(c) Investment Portfolio

The investment portfolio is recorded at cost.

Gains and losses on sale of investments are recognized when the assets are sold. All other distributions from the portfolio investments are recognized when they are received or become receivable.

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

1. Summary of Significant Accounting Policies (continued)

(d) Revenue Recognition

Government grants are recognized in the financial statements in the period in which events giving rise to the transfer occur, providing the transfers are authorized, any eligibility criteria have been met and reasonable estimates of the amount can be made.

General and special municipal levies are recognized as revenue when the amounts are levied on the municipalities.

Authority-generated revenue is recognized when the price is fixed or determinable, collectability is reasonably assured and services are provided to customers. Types of services include tree planting, site inspections, forest maintenance, property access fees, rentals and planning.

All other revenues are recognized on an accrual basis.

(e) Deferred Revenue

Revenue restricted by legislation, regulation or agreement, and not available for general purposes, is reported as deferred revenue on the statement of financial position.

(f) Tangible Capital Assets

Tangible capital assets are recorded at cost, which includes all amounts that are directly attributable to acquisition, construction, development or betterment of the asset. Cost includes overheads directly attributable to construction and development.

Amortization is reflected on a straight-line basis over the estimated useful life of the assets. The useful life of the assets is based on estimates made by management. The following rates are used:

Bridges and trails	6 - 30 years
Buildings	40 years
Dams and weirs	50 years
Equipment	15 years
Flood forecast equipment	20 years
Information technology infrastructure	3 - 15 years
Office furniture	20 years
Vehicles	10 years

Contributed tangible capital assets are recognized as assets and revenue at fair value at the time they are received.

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

1. Summary of Significant Accounting Policies (continued)

(g) Vehicles and Equipment

The Authority operates a pool of vehicles and equipment. Internal charges for the use of vehicles and equipment are made to the various projects of the Authority based on an hourly or distance travelled rate, which is designed to recover all costs of operating the pool including replacement of equipment.

These internal charges are included in the appropriate expense classifications. Expenditures incurred by the motor pool for operating costs are netted against the internal charges and are reported in the statement of operations.

(h) Pension Plan

The Authority offers a pension plan for its full-time employees through the Ontario Municipal Employee Retirement System ("OMERS"). OMERS is a multi-employer, contributory, public sector pension fund established for employees of municipalities, local boards and school boards in Ontario. Participating employers and employees are required to make plan contributions based on participating employees' contributory earnings. The Authority accounts for its participation in OMERS as a defined contribution plan and recognizes the expense related to this plan as contributions are made, even though OMERS is itself a defined benefit plan.

(i) Use of Estimates

The preparation of financial statements in accordance with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. The principle estimates used in the preparation of these financial statements are the determination of the estimated useful life of tangible capital assets and valuation of tangible capital assets when testing for possible impairment. Actual results could differ from management's best estimates as additional information becomes available in the future.

2. Cash and Banking Facility

On December 31, 2019 the Authority had cash of \$996,382 (2018 - \$835,738) at one chartered bank. The Canada Deposit Insurance Corporation (CDIC) insures up to a maximum of \$100,000 per depositor at a CDIC member institution. Included in operating cash is \$212,443 (2018 - \$178,776) of funds restricted for the purposes as described in Note 6.

3. Investment Portfolio

The investment portfolio includes Canadian, U.S. and International equities, as well as bonds and cash. The fair market value of the investments at year end was \$1,227,360 (2018 - \$1,080,336). During the year, the investment portfolio generated interest revenue of \$49,583 (2018 - \$51,830), realized capital loss of \$5,552 (2018 - capital gains of \$2,859) and incurred management fees in the amount of \$12,302 (2018 - \$11,901). Income on reserve accounts, as reported on the statement of operations, includes all income and losses generated by the portfolio in addition to interest earned from reserve cash accounts.

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

4. Pension Plan

The employees of the Authority participate in the Ontario Municipal Employees Retirement System ("OMERS"). Although the plan has a defined retirement benefit for employees, the related obligation of the Municipality cannot be identified. The Authority has applied defined contribution plan accounting as it has insufficient information to apply defined benefit plan accounting. The OMERS plan has several unrelated participating municipalities and costs are not specifically attributed to each participant. Amounts paid to OMERS for 2019 were \$141,554 (2018- \$133,874) for current service.

OMERS is a multi-employer plan, therefore any pension plan surpluses or deficits are a joint responsibility of Ontario municipal organizations and their employees. The most recent actuarial valuation of the Plan was conducted at December 31, 2019.

5. Other Payables

The Authority holds monies collected by the Beaver River Water Initiative ("BRWI"), Friends of Hibou, Fishing Islands Phragmites group and the Arboretum Alliance. These funds are distributed when these organizations require payment for expenses which they have incurred. As at December 31, 2019 the Authority held \$14,177 (2018 - \$13,722) on behalf of the BRWI, \$1,073 (2018 - \$4,635) on behalf of Friends of Hibou, \$4,874 (2018 - \$NIL) on behalf of Fishing Islands Phragmites group and \$12,657 (2018 - \$14,047) on behalf of the Arboretum Alliance.

6. Deferred Revenue

Deferred revenue consists of the following:

	2019	2018
	\$	\$
Risk Assessment of Flood Hazards in the Georgian Bay Shoreline Areas of Grey County (Note 12)	-	13,768
Blue Mountain gift certificates	4,000	4,000
Weston grant	391	20,000
Source water	80,080	43,004
Risk management legal contingency	62,668	55,000
RBC stewardship grant	32,755	-
Outstanding planning permits	17,960	29,579
Miscellaneous other deferrals	14,589	13,425
	212,443	178,776

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

7. Tangible Capital Assets

Tangible capital assets consists of the following:

	Balance 2018	Additions	Disposals	Balance 2019
Cost	\$	\$	\$	\$
Land	6,270,222	-	-	6,270,222
Bridges and Trails	440,851	-	-	440,851
Buildings	1,056,691	4,676	(6,957)	1,054,410
Dams and Weirs	2,116,930	-	-	2,116,930
Equipment	199,579	19,509	-	219,088
Flood Forecast Equipment	60,621	4,826	-	65,447
Information Technology Infrastructure	144,580	8,700	-	153,280
Office Furniture	48,593	741	-	49,334
Vehicles	293,187	-	-	293,187
	10,631,254	38,452	(6,957)	10,662,749
Accumulated Amortization				
Bridges and Trails	162,589	16,628	-	179,217
Buildings	788,761	13,315	(5,816)	796,260
Dams and Weirs	1,282,159	41,295	-	1,323,454
Equipment	139,485	9,940	-	149,425
Flood Forecast Equipment	30,360	3,962	-	34,322
Information Technology Infrastructure	92,492	9,714	-	102,206
Office Furniture	38,972	1,132	-	40,104
Vehicles	193,246	22,268	-	215,514
	2,728,064	118,254	(5,816)	2,840,502
Net Book Value				
Land	6,270,222			6,270,222
Bridges and Trails	278,262			261,634
Buildings	267,930			258,150
Dams and Weirs	834,771			793,476
Equipment	60,094			69,663
Flood Forecast Equipment	30,261			31,125
Information Technology Infrastructure	52,088			51,074
Office Furniture	9,621			9,230
Vehicles	99,941			77,673
	7,903,190			7,822,247

During the year, \$38,452 of tangible capital assets were acquired by means of cash (2018 - \$31,370) and \$NIL through contribution from a local municipality (2018 - \$46,000).

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

8. Accumulated Surplus

Accumulated surplus consists of individual fund surplus and reserves as follows:

	2019	2018
	\$	\$
Invested in tangible capital assets	7,822,247	7,903,190
Operating surplus (Note 10)	187,683	175,652
Reserve funds (Note 9)	1,701,831	1,590,665
Proportionate share of government partnership surplus (Note 12)	1,196	561
Working capital reserve	60,000	60,000
	9,772,957	9,730,068

9. Reserve Funds Set Aside for Specific Purpose

	2019	2018
	\$	\$
Special projects	280,638	193,629
Computer replacement	13,874	13,533
Major dam maintenance	153,867	129,611
Vehicle replacement	222,374	200,122
Risk management	180,937	186,170
Administration centre	373,666	332,438
Forest management	455,278	514,488
Youth	21,197	20,675
	1,701,831	1,590,666

10. Budget

Under Canadian public sector accounting principles, budget amounts are to be reported on the statement of operations and changes in net financial assets for comparative purposes. The 2019 budget amounts for Grey Sauble Conservation Authority approved by the Board have been reclassified to conform to the basis of presentation of the revenues and expenses on the statements of operations and change in net financial assets. The budget numbers have not been audited. The following is a reconciliation of the budget approved by the Board:

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Annual surplus (deficit)	84,594	42,889	123,784
Prior year general surplus	175,652	175,652	114,681
Transfers from (to) reserves	105,603	(111,165)	(124,334)
Tangible capital asset acquisitions, disposals and write-down	(193,066)	(37,311)	(70,903)
Proportionate share of government partnership's annual surplus	-	(636)	(560)
Amortization	-	118,254	132,984
Operating surplus	172,783	187,683	175,652

GREY SAUBLE CONSERVATION AUTHORITY

NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2019

11. Related Party Transactions

The Grey Sauble Conservation Foundation was founded to receive, accumulate and distribute funds and/or the income therefrom for the benefit of the Authority. The Foundation is incorporated under the Ontario Corporations Act and is a registered charity under the Income Tax Act. The Authority has representation on the Foundation's Board of Directors. Funds are solicited by the Foundation to further the mission of the Authority. Thus, as defined in the accounting recommendations of the Chartered Professional Accountants of Canada, the Authority has an economic interest in the Foundation.

Transactions with Grey Sauble Conservation Foundation include accounts receivable of \$7,410 (2018 - \$4,641), interest revenue of \$6,178 (2018 - \$1,248), and other transfers to fund Authority activities included in miscellaneous revenue of \$10,500 (2018 - \$7,500).

12. Government Partnership

The following summarizes the financial position and operations of the Risk Assessment of Flood Hazards in the Georgian Bay Shoreline Areas of Grey County in 2019. The Grey Sauble Conservation Authority's pro-rata share of these amounts has been reported in the financial statements using the proportionate consolidation method:

	Risk Assessment of Flood Hazards in the Georgian Bay Shoreline Areas of Grey County
	\$
Financial assets	138,000
Liabilities	133,654
Net financial debt	4,346
Non-financial assets	-
Accumulated surplus	4,346
Revenues	172,611
Expenses	170,301
Annual surplus	2,310

13. Subsequent event

On March 11, 2020, the World Health Organization categorized COVID-19 as a pandemic. The potential economic effects to the Authority could have a material impact on its operations. For example, the measures introduced at various levels of government to curtail the spread of the virus, such as travel restrictions, closures of non-essential municipal and private operations, imposition of quarantines and social distancing, could mean that the Authority's revenues and collections are reduced. Management is actively monitoring the situation; however, the full effect of the possible impacts described above cannot be quantified at this time.

**GREY SAUBLE
CONSERVATION AUTHORITY
SUPPLEMENTARY INFORMATION
DECEMBER 31, 2019**

Draft for Discussion

GREY SAUBLE CONSERVATION AUTHORITY

DECEMBER 31, 2019

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AUDITOR'S COMMENTS ON SUPPLEMENTARY FINANCIAL INFORMATION

To the Board of Directors of Grey Sauble Conservation Authority:

We have audited the financial statements of Grey Sauble Conservation Authority, which comprise the statement of financial position as at December 31, 2019, and the statements of operations, change in net financial assets and cash flow for the year then ended, and a summary of significant accounting policies and other explanatory information, and have issued our report thereon dated June 24, 2020 which contained an unmodified opinion on those financial statements. The audit was performed to form an opinion on the financial statements as a whole. The supplementary information is presented for the purposes of additional analysis and is not a required part of the financial statements. Such supplementary information is the responsibility of management and was derived from the underlying accounting and other records used to prepare the financial statements.

The supplementary information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such supplementary information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves.

Restriction on Distribution and Use

The supplementary information is prepared to provide additional information to the Board of Directors. As a result, the supplementary information may not be suitable for another purpose. Our report is intended solely for the Board of Directors and should not be distributed to or used by parties other than the Board of Directors.

Baker Tilly SGB LLP

Licensed Public Accountants
Collingwood, Ontario
June 24, 2020

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 1 SCHEDULE OF REVENUE FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Government Grants			
Provincial and Federal - Programming			
Flood control and warning	71,779	37,056	71,779
Stewardship program	81,145	87,067	35,319
Groundwater monitoring	-	1,008	973
Provincial and Federal - Other	-	-	14,329
Other	14,000	10,474	19,947
	166,924	135,605	142,347
Federal and local governments - Risk assessment of flood hazards (Note 12)	164,816	47,530	30,741
Provincial and Federal - Other			
Special capital - current funding	-	-	13,445
	331,740	183,135	186,533
Grey Sauble Forestry/Trees Ontario			
Trees and landscape stock	68,330	90,590	76,693
Planning	-	15,792	6,797
Planting	-	4,001	1,420
Site inspections	-	900	367
Vegetation control	-	525	15,593
Other	-	100	284
Trees Ontario Foundation grants	165,000	119,807	102,588
	233,330	231,715	203,742
User Fees, Service Fees and Other Revenue Sources			
Parking fees	95,200	88,891	92,505
Planning fees	297,000	325,269	284,091
Rentals	35,740	58,672	42,175
The Great Outdoors Day Camp	35,264	32,775	29,964
GIS consulting	12,400	495	525
	475,604	506,102	449,260

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 2 SCHEDULE OF RENTAL RECOVERIES AND EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Recoveries			
Vehicle			
Flood control and warning	-	7,570	6,656
Operating conservation property	-	24,379	22,957
Forest management	-	18,861	22,261
Grey Sauble Forestry/Trees Ontario	-	6,348	4,604
Erosion control	-	166	65
Land use planning and regulation	-	10,724	9,264
Information and education	-	431	704
Administrative support	-	1,970	2,614
Special programs	-	1,858	4,196
Equipment			
Grey Sauble Forestry services	-	-	687
	85,425	72,307	74,008
Expenditures			
Vehicle			
Fuel	30,000	26,847	25,997
Repairs	10,804	19,333	17,906
Licenses and insurance	18,500	7,337	7,102
Equipment			
Fuel	-	1,006	971
Repairs	-	589	3,941
	59,304	55,112	55,917
Excess of recoveries over expenditures	26,121	17,195	18,091

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 3 SCHEDULE OF WATER MANAGEMENT EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Flood Forecast and Warning			
Salaries and benefits	112,658	97,245	97,763
Service contracts	3,500	285	-
Vehicle and equipment rentals	4,000	4,845	4,392
Materials and supplies	3,500	3,626	2,837
Training	750	706	252
Services, rents and utilities	-	1,405	1,868
	124,408	108,112	107,112
Flood Control Structures			
Clendenan dam	7,530	4,768	11,120
Taylor Street retention pond	-	53	453
	7,530	4,821	11,573
Dams			
Salaries and benefits	7,844	2,832	5,133
Service contracts	2,000	-	1,272
Vehicle and equipment rentals	1,200	894	1,162
Materials and supplies	1,500	1,049	571
Dam maintenance	-	-	573
	12,544	4,775	8,711
Ice Management			
Various	4,000	-	-
Erosion Control			
Salaries and benefits	750	563	234
Vehicle and equipment rentals	250	166	65
Materials and supplies	1,000	-	-
	2,000	729	299
	150,482	118,437	127,695

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 4 SCHEDULE OF ENVIRONMENTAL PLANNING EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Bio-Mapping			
Salaries and benefits	-	1,429	3,297
Vehicle and equipment rentals	-	288	158
Materials and supplies	-	102	8
	-	1,819	3,463
Groundwater Monitoring			
Salaries and benefits	-	6,260	5,237
Vehicle and equipment rentals	-	956	650
Materials and supplies	-	-	123
	-	7,216	6,010
Watershed Management			
Salaries and benefits	105,654	96,909	99,391
Vehicle and equipment rentals	11,000	3,821	5,508
Materials and supplies	60,735	76,765	12,187
Services, rents and utilities	750	-	-
Watershed monitoring	13,000	14,043	10,221
	191,139	191,538	127,307
Land Use Planning and Regulation			
Salaries and benefits	357,288	336,274	282,400
Service contracts	-	394	-
Vehicle and equipment rentals	13,000	9,828	9,171
Materials and supplies	5,000	5,248	6,418
Training	5,000	6,217	4,136
	380,288	357,961	302,125
	571,427	558,534	438,905

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 5 SCHEDULE OF FORESTRY EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Operations on Authority Land			
Salaries and benefits	152,137	124,204	143,036
Service contracts	-	-	9,269
Vehicle and equipment rentals	9,200	5,496	6,862
Materials and supplies	2,500	2,143	4,639
Training	4,460	812	2,137
Services, rents and utilities	-	-	2,500
	168,297	132,655	168,443
Grey Sauble Forestry/Trees Ontario			
Purchases and Trees Ontario expenses	100,550	105,449	99,519
Salaries and benefits	127,580	129,522	77,580
50 Million Trees program	-	-	1,270
Other	5,200	7,671	2,642
	233,330	242,642	181,011
Grey County Forest Management			
Salaries and benefits	133,042	113,040	119,178
Vehicle and equipment rentals	16,500	12,240	13,280
Supplies	-	1,498	742
	149,542	126,778	133,200

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 6 SCHEDULE OF CONSERVATION AND ADMINISTRATIVE EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Conservation Lands Operations			
Salaries and benefits	182,939	185,687	185,628
Service contracts	35,000	9,919	12,158
Vehicle and equipment rentals	19,975	22,028	20,681
Materials and supplies	17,000	15,060	19,171
Services, rents and utilities	-	11,308	13,823
Training	-	1,029	179
	254,914	245,031	251,640
Conservation Lands Policy and Strategy			
Salaries and benefits	94,222	97,906	91,667
Service contracts	1,000	2,827	211
Vehicle and equipment rentals	1,500	1,465	107
Property taxes	72,000	65,982	67,449
Materials and supplies	3,000	857	1,060
Training	2,000	703	316
	173,722	169,740	160,810
Conservation Information and Education			
Salaries and benefits	106,256	80,675	92,023
Contracts and services	28,200	3,176	5,828
Vehicle and equipment rentals	1,000	505	681
Materials and supplies	3,900	3,567	3,218
Advertising contracts	800	5,050	2,812
The Great Outdoors Day Camp	-	28,712	24,236
	140,156	121,685	128,798
Administrative			
Salaries and benefits	366,253	328,152	356,315
Board members' allowances	5,500	8,631	6,577
Service contracts	46,940	-	-
Vehicle and equipment rentals	1,100	3,100	1,460
Materials and supplies	14,000	17,979	12,314
Services, rents and utilities	99,000	137,054	144,947
	532,793	494,916	521,613

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 7 SCHEDULE OF PROGRAMMING EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Sourcewater Protection			
Salaries and benefits	137,938	136,613	199,942
Committee members' allowance	-	7,607	3,927
Vehicle and equipment rentals	1,300	1,246	1,345
Materials and supplies	3,000	4,752	4,946
Services, rents and utilities	16,500	15,173	22,410
	158,738	165,391	232,570
Risk Management			
Salaries and benefits	29,928	65,808	73,031
Vehicle and equipment rentals	1,500	1,161	786
Materials and supplies	11,000	9,182	6,477
Services, rents and utilities	1,000	2,798	-
	43,428	78,949	80,294
GIS and IT Support			
Salaries and benefits	234,303	160,838	107,215
Service contracts	111,712	29,258	55,238
Vehicle and equipment rentals	1,000	797	432
Materials and supplies	5,750	2,025	3,671
Hardware and software	-	13,344	2,963
Training	3,000	3	-
	355,765	206,265	169,519
Risk Assessment of Flood Hazards in the Georgian Bay Shoreline Areas of Grey County (Note 12)			
Salaries and benefits	-	5,282	8,868
Services and supplies	-	-	20,369
Vehicle and equipment	-	83	279
Materials and supplies	-	28	665
Light detection and ranging (Lidar)	-	41,500	-
	-	46,893	30,181

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 8 SCHEDULE OF OPERATING SURPLUS FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Revenue			
Municipal levies	1,388,556	1,388,556	1,335,481
Government grants	166,924	135,605	155,792
Grey Sauble Forestry/Ontario Trees	233,330	231,715	203,742
Grey County Forestry Management	169,498	144,362	180,778
Timber and wood sales	140,100	71,334	47,835
User fees	475,604	506,102	449,260
Sourcewater Protection	158,738	165,391	232,570
Net rental recoveries	26,121	17,195	18,091
Donations	1,600	7,410	26,664
Risk management	76,679	69,011	100,166
Contributed tangible capital assets	-	-	46,000
Miscellaneous	19,788	29,337	8,482
Interest earned	2,500	15,264	7,464
Proceeds on disposal of tangible capital assets	-	-	4,425
	2,859,438	2,781,282	2,816,750
Expenditures			
Water management	150,482	118,437	127,695
Environmental planning	571,427	558,536	438,905
Forestry			
-Operations on Authority land	168,297	132,655	168,443
-Grey Bruce Forestry/Ontario Trees	233,330	242,642	181,011
-Grey County Forest Management	149,542	126,778	133,200
Conservation lands policy and procedures	173,722	169,740	160,810
Conservation lands operations	254,914	245,031	251,641
Conservation information and education	140,156	121,685	128,798
Administrative support	532,793	494,916	521,613
Miscellaneous	-	10,533	7,682
Risk management	43,428	78,949	80,295
Sourcewater protection	158,738	165,391	232,570
GIS/IT department	355,765	206,266	169,519
Major projects (Schedule 9)	193,066	40,383	91,964
	3,125,660	2,711,942	2,694,146
Net (expenditures) revenues	(266,222)	69,340	122,604
Appropriations			
From reserve funds	192,975	53,856	123,014
To reserve funds	(87,372)	(111,165)	(184,647)
	105,603	(57,309)	(61,633)
Net surplus (deficit) for the year	(160,619)	12,031	60,971
Operating surplus, beginning of the year	175,652	175,652	114,681
Operating surplus, end of the year	15,033	187,683	175,652

GREY SAUBLE CONSERVATION AUTHORITY

SCHEDULE 9 SCHEDULE OF MAJOR AND OTHER PROJECT EXPENDITURES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2019	Actual 2019	Actual 2018
	\$	\$	\$
Buildings	2,500	4,676	-
IT Equipment	10,500	8,700	3,061
Vehicle replacement	60,000	-	-
Flood Forecasting Equipment	5,000	4,826	24,071
Admin Centre - Concept design	20,000	-	-
Admin Centre - Renewal	20,000	-	-
Other Equipment	28,000	19,509	6,944
Office Furniture	-	741	-
Minor Infrastructure	-	-	6,600
Pottawatomi foot bridge	-	-	43,295
Spiral staircase - Spirit Rock	7,066	1,931	7,993
Septic - Inglis Falls	40,000	-	-
	193,066	40,383	91,964

**Grey Sauble Conservation Authority
237897 Inglis Falls Rd, Owen Sound, ON N4K 5N6**

June 12, 2020

The Nature Conservancy of Canada (NCC) is a not-for-profit, private land conservation organization, working to protect our most important natural areas and the species they sustain. We secure properties (through donation, purchase, and conservation agreements) and manage them for the long term. Since 1962, NCC and our partners have helped to conserve more than 35 million acres (more than 14 million hectares) of ecologically significant land from coast to coast. NCC has focussed on the Saugeen Bruce Peninsula to protect at-risk species (SAR), globally rare communities, and preserve habitat connectivity. Unfortunately, there is an ever-increasing threat from invasive species across this landscape that we must address in a collaborative, landscape manner to truly achieve success.

Invasive species are among the leading threats to native wildlife in Ontario. They invade forests and wetlands, and without natural predators to keep them under control, they degrade these habitats. A well-established population is costly and time-consuming to control. It is imperative that we control the spread of invasive species here while populations are still small and manageable. Effective management of these priority species requires a coordinated effort from local communities, partner organizations, and all levels of government to ensure we can protect this incredible landscape for future generations.

NCC has obtained support from the Ontario Trillium Foundation over the next three years to bring together local partners and communities to work collaboratively to tackle invasive species across the Saugeen Bruce Peninsula. The newly formed, Saugeen Peninsula Invasive Species Collaborative (SPISC) is a growing group of organizations who have agreed to work collaboratively on invasive species management across the Saugeen Bruce Peninsula (Table 1). This is a multi-species strategy, but the initial focus of the collaboration is to more effectively manage the spread and establishment of *Phragmites* by aligning mapping and control efforts and investing in private landowner outreach.

Members of the Saugeen Peninsula Invasive Species Collaborative (SPISC)	
Nature Conservancy of Canada	Bruce Peninsula Sportsman Association
Grey Sauble Conservation Authority	Bruce Trail Conservancy
Bruce County	Bruce Biosphere Association
Town of North Bruce Peninsula	Saugeen Ojibway Nation
Town of South Bruce Peninsula	Oliphant Fishing Islands Phragmites Community Group
Ontario Parks	Bruce Peninsula National Park
Grey County	Township of Georgian Bluffs
Bruce County Federation of Agriculture	Grey Bruce Woodlot Owners Association

To efficiently manage populations of *Phragmites* across this landscape with our partners we must use the best tools available to us. Although some populations of *Phragmites* growing in wet areas are must be controlled mechanically; populations that are found growing on dry land are best managed using targeted applications of approved herbicides by trained and licensed individuals. A single application of herbicide during the appropriate timing window is proven to be the most cost and time effective method to tackle



this invasive before it causes irreversible damage to our native ecosystems. However, environmental organizations such as NCC are required to obtain Letters of Opinions from the MNRF in order to manage *Phragmites* with herbicide. This time-consuming administrative process has taken up to a year in past experience; and with over 800 known sites of *Phragmites* to manage as part of our OTF grant deliverables we cannot afford to lose a year of control in 2020 to this process.

As a Conservation Authority, Grey Sauble Conservation Authority (GSCA) is exempt under the Pesticides Act under section 63/09 from needing to obtain a Letter of Opinion to use herbicide to manage populations of priority invasives. Through working collaboratively with GSCA to identify sites best managed using herbicides and contracting trained and licensed individuals under GSCA to manage them, NCC can ensure that we are able to move forward with control of these populations in 2020 as the first step to address this imminent threat. NCC staff would be happy to coordinate all planning and communication with contractors to ensure that the process is the least timing consuming for GSCA staff. NCC has had great success in working with the Long Point Region Conservation Authority on a similar initiative through the Long Point Phragmites Action Alliance (LPPAA) in Norfolk where we have controlled over 1110ha of *Phragmites* to date. It is only through working together that we will be able to move the needle in the fight against invasive species across the Saugeen Bruce Peninsula.

We are grateful for the support that we have already received from GSCA on this initiative and look forward to continuing to work together to protect the Saugeen Bruce Peninsula and species it sustains.

Esme Batten

Midwestern Ontario Program Director
Nature Conservancy of Canada
esme.batten@natureconservancy.ca
519-373-4620



Grey Sauble Authority Board of Directors

DATE: June 24, 2020

MOTION #: FA-20

MOVED BY: _____

SECONDED BY: _____

WHEREAS GSCA has been approached by the Nature Conservancy of Canada (NCC) to partner with them and other stakeholders on combating invasive species within the watershed;

AND FURTHER WHEREAS one of Grey Sauble Conservation Authority's (GSCA) Strategic Plan Goals is to work with partners to enhance GSC land management and natural heritage preservation of the watershed;

AND FURTHER WHEREAS the presence and prevalence of invasive species undermines that natural ecosystems within the watershed;

AND FURTHER WHEREAS under Section 21(1) of the Conservation Authorities Act, GSCA has the following powers: (f) to enter into agreements for the purchase of materials, employment of labour and other purposes as may be necessary for the due carrying out of any project or to further the authority's objects; (g) to enter into agreements with owners of private lands to facilitate the due carrying out of any project; (n) to collaborate and enter into agreements with ministries and agencies of government, municipal councils and local boards and other organizations and individuals;

THAT the Grey Sauble Conservation Authority enter into a memorandum of understanding with NCC to assist with combating invasive species, which may include contracting licensed pesticides applicators.



Grey Sauble Authority Board of Directors

DATE: June 24th, 2020

MOTION #: FA-20-

MOVED BY: _____

SECONDED BY: _____

THAT the Grey Sauble Conservation Authority Board of Directors accept the draft financial report for 2019 as prepared by Baker Tilly, Licensed Public Accountants.

**OPERATION HISTORY AND
PROPOSED CHANGES**

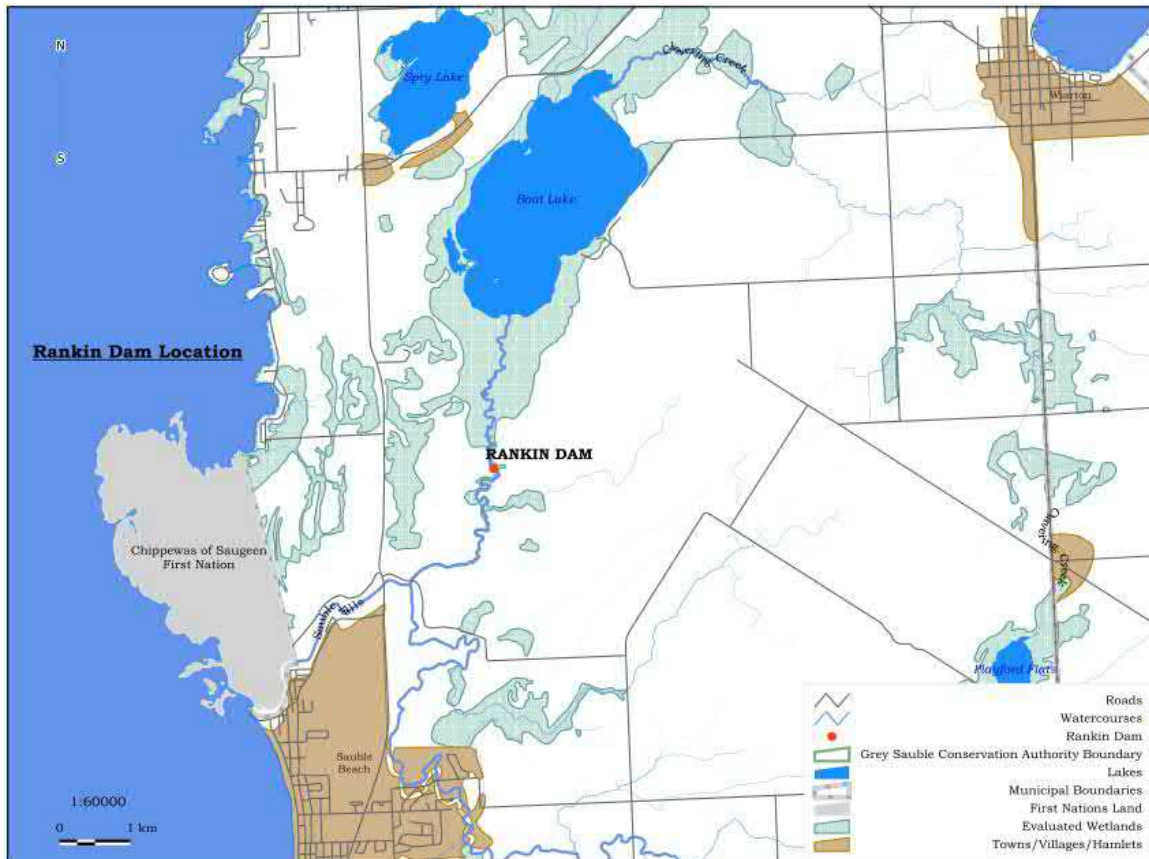
RANKIN DAM

2020

GREY SAUBLE CONSERVATION AUTHORITY

Location of Dam

Rankin Dam is located on the Rankin River approximately 1.2 Km. upstream of the confluence with the Sauble River near Sauble Falls. It is situated in Lot 39, Conc. C, former Township of Amabel (Town of South Bruce Peninsula). Access to the dam is by an unimproved forest road traveling northward along the river from Rankin Bridge Road. The forest road is not owned by the Authority. Portions of the road are Municipal, Bruce County and private. The Authority has easements through the private sections.



Purpose of the Dam

The dam was constructed in 1961 to maintain summer water levels in Boat and Isaac Lakes on the Rankin River Lake chain. These lakes were lowered in the 1920's by channelizing of the river to encourage agricultural use of land around the lakes. The agricultural use did not materialize and the lakes became too shallow in the summer months to support recreational activities.

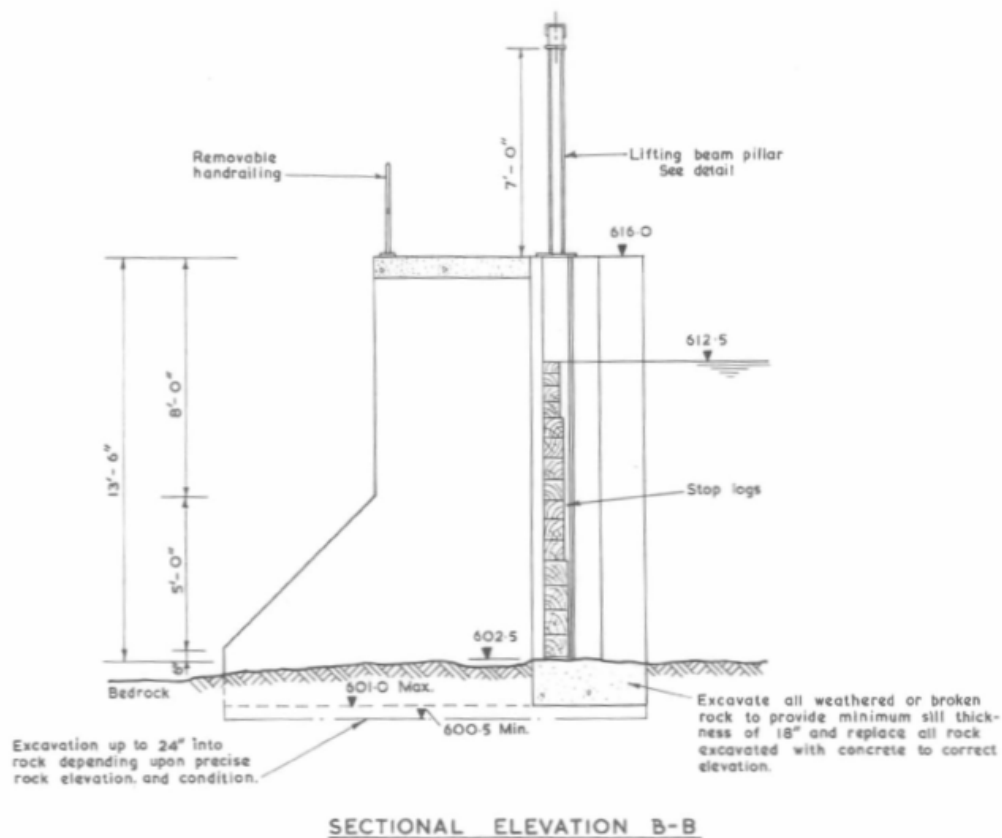
The dam was originally designed to maintain summer water levels at 612.5 feet geodetic elevation (0.8ft on the gauge). However, to improve recreational use of the lakes it has been maintained at a level of 613 feet (1.3ft on the gauge).

Description of Dam

Rankin Dam is a concrete structure that is embedded into the bedrock. It has three stop log bays of equal size. The structure is 21m long and is 4.1m high above the bedrock streambed. The stop log bays are each 4.57m wide with a stop log height of 3.2m when all logs are installed. There are no constructed berms or seals in the surrounding area. The dam spans the river channel only. The surrounding area is generally sandy soils over fractured bedrock. Subsurface seepage is anticipated and cannot be controlled. Flood relief during high flows is over bank on the east side of the dam. The risks for erosion around the dam depend on the season and whether the dam logs are in or out. With the dam fully installed, high flows could cause significant erosion until the downstream constriction and resulting backwater effect equalizes the water levels upstream and downstream of the dam. With the dam out, the downstream constriction and resulting backwater effect control the levels at the dam and during high flows, velocities over the east bank are not significant to cause erosion.

Present Dam Operations

The dam consists of three 4.47 m. (16 ft.) stop log bays. Each bay contains four 10 inch, seven 8 inch and five 6 inch stop logs. This stop log configuration maintains the top of the logs at an elevation of approximately 613 feet geodetic (10.5 ft. or 1.3 ft. on the staff gauge or 3 ft. from the top of the concrete deck).



Installation of the stop logs takes place after the spring freshet. This is usually done relatively late in the spring due to the extended period of time required for the lakes to recede after the snow melt and spring rains. Past experience has shown that the water is low enough at the dam to install the logs by mid-May but the installation date is variable depending on the amount of water in the system. Consideration is also given to the timing of the rainbow trout spawning but generally spawning is completed prior to installing the dam.

Due to the rock constriction in the channel downstream, the backwater effect maintains water levels at the dam for an extended period in the spring. As the levels downstream of the dam drop, so do the levels at the dam. This can happen very quickly and staff needs to monitor these levels. The levels of the lakes usually take much longer to drop since the lakes drain slowly through the meandering upstream channel to the dam. Levels at the dam are generally lower than the lakes. The dam needs to be installed before the lake levels drop below the target summer operating levels (1.3 ft. on staff gauge). The goal is to hold the lake levels and not rely on the lakes re-filling. There is very little base flow to the Rankin system and it requires rainfall and runoff to maintain summer levels. As of 2018, a staff gauge has been installed at the Bruce Rd 13 Bridge to assist with monitoring lake levels (0.27m = normal summer operating levels).

Several problems are associated with the installation of the logs. The dam itself is located in a low area due to the favourable conditions of the bedrock (no fractures). Originally, all logs were removed each fall to prepare for spring freshet and then re-installed the following spring. Due to shifting substrate and debris drifting into the each bay, it became very difficult and expensive to clear the bays to facilitate the placement of the logs. To address this issue, the bottom 4 logs (4x10") were left in place year-round. These logs did not impact flood flows since their elevation was still below the downstream river bed. This change in operation helped reduce the need for a hy-hoe every year to clear the bays but sand and debris would still cover the top logs preventing a good seal when new logs were added. The depth to the top of the logs was still too deep to effectively clear sand and debris manually from the top of the dam. To solve this, a commercial diving team was employed during log installation to clear the bays of debris and to ensure proper seating of the logs.

Even with the 4 logs left in place, the water depth over the logs was still too deep to simply add logs to each bay. The new logs would float and need to be stacked before they could be jacked down like a single gate (logs cannot be installed individually as is typical of other dam installations). After the logs are jacked into position, they are clamped down with metal plates that bolt to the abutments to prevent the logs from popping up and vandals from removing them. While the dive team is still present, the bays are inspected for obvious gaps. Logs are reset if necessary but a good seal is not known until water levels rise to the top of the logs and the leaks become visible. Further jacking may be required but leaks are not uncommon. Drawing the dam down again to correct significant leaks may not be possible since water levels need to drop to safe levels

for re-install. There may not be suitable flows from the lakes to achieve desired lake levels after the draw down.

During the installation process, sufficient flows must be maintained downstream to keep the spawning beds covered with water to prevent destruction of the eggs and to maintain other important aquatic habitats. An 8 inch low flow pipe can be opened during log installation to maintain downstream flow. However, this pipe does not provide sufficient flow. Normal leakage of the dam is usually sufficient to provide the additional flow that is required for downstream habitats until flows can overtop the logs. However, if leakage is minimal, the top boards must not be added until flows will overtop them. If leakage is significant, biodegradable plugs may need to be installed.

Due to the large storage capacity of the lakes above the dam, the stop logs are removed in early October to allow for a lengthy draw down period through the fall. The timing of the log removal is dependent upon summer and early fall weather conditions. During wet summers, draw down may commence as early as mid-September to alleviate high water levels in the fall. The lake levels will drop but they do not drop as low as the levels as the dam.

Normally all 6 inch and 8 inch stop logs are removed. The 10 inch logs, which are below the grade of the river bed, are left in place to maintain a good seal on the bottom of the dam. These logs do not hinder spring runoff flows due to the fact that the dam, even with the four bottom logs in place, has a greater capacity to pass flows than the downstream channel which is controlled by channel constriction. The bottom logs must be wedged down with long (12 foot) planks which are inserted from the top of the dam.

The logs are removed using two sets of one ton chain hoists which are suspended from an overhead steel beam. Long steel rods are suspended from the chain hoists and hooked onto the logs to pull them out of the bays. The rods and hoists are stored at the Authority's workshop. The logs are stored (chained) on the dam.

Inspection and Maintenance

Maintenance requirements since construction in 1961 have been relatively minimal. The wooden overhead stop log lifting beams were replaced with steel beams in 1985. Bank erosion protection works, consisting of gabion baskets, were installed upstream and downstream of the dam on both the east and west banks in the early 1980's.

A dam assessment study completed in 2006 indicated that the dam was in very good condition. No significant maintenance was identified. Particular attention should be paid to the condition of the lifting hooks on the stop logs.

A general inspection of the dam should be conducted annually. Particular attention should be paid to the following:

- condition of the stop logs and the lifting hooks on the logs

- the seal on the expansion joints in the concrete checked and repaired as necessary
- gabion baskets inspected for fatigue and breakage and repaired as required
- debris such as logs and trees that accumulate behind the dam to be routinely removed
- railings and overhead stop log lifting beams checked to ensure they are secure and painted as required.

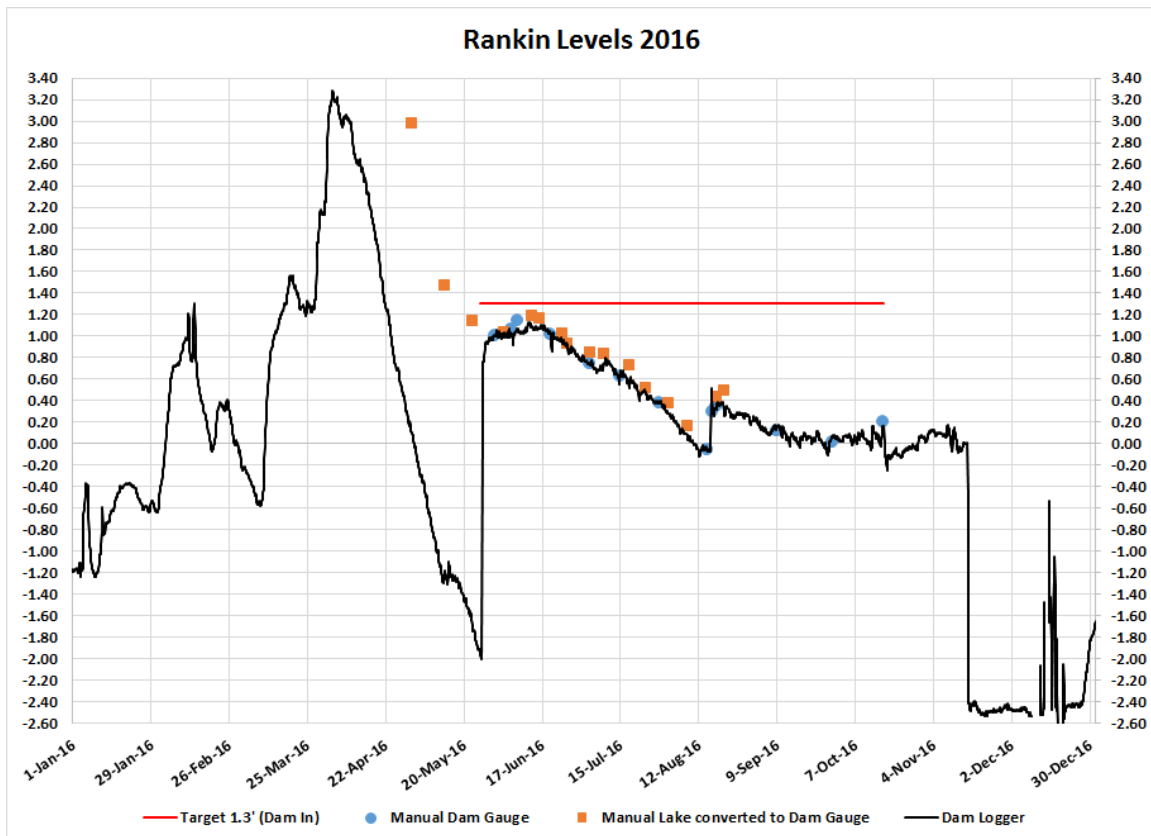
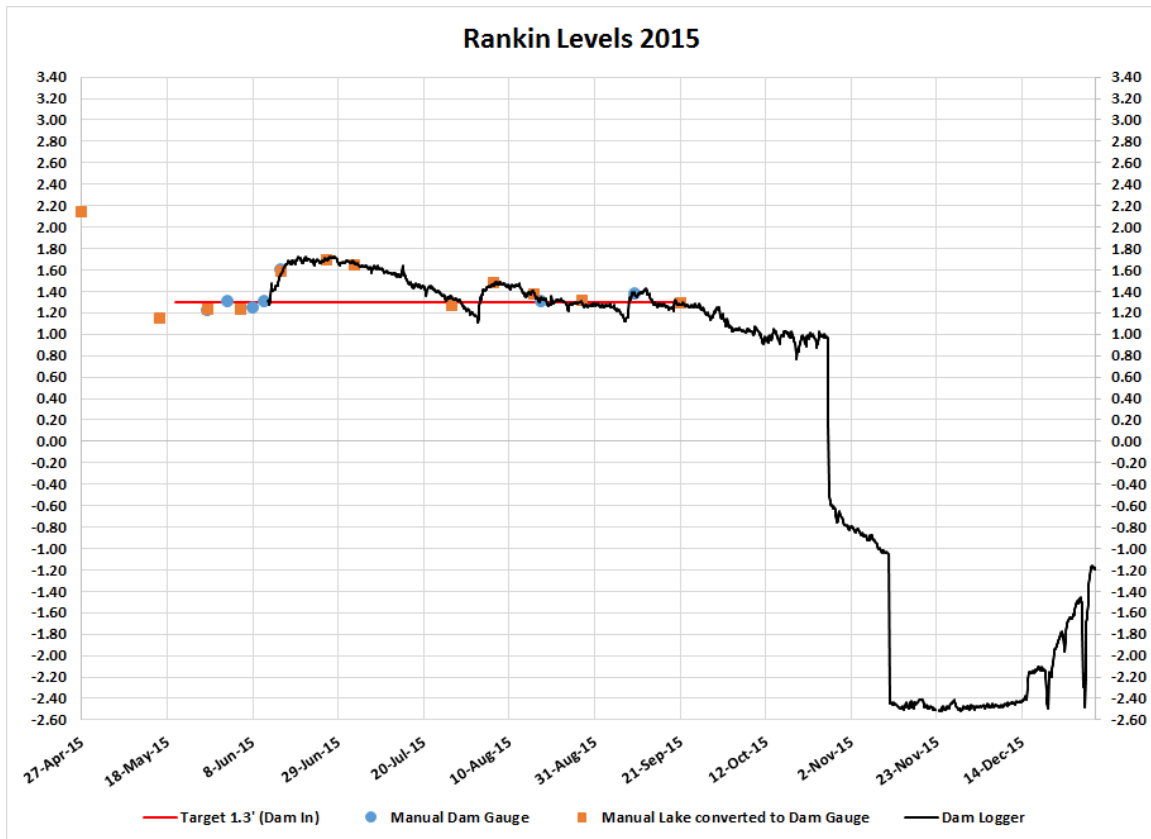
Signage, warning the public to stay off the dam, should be checked each time staff visits the dam to ensure that it is still in place. Signs should be replaced immediately if they are missing or vandalized.

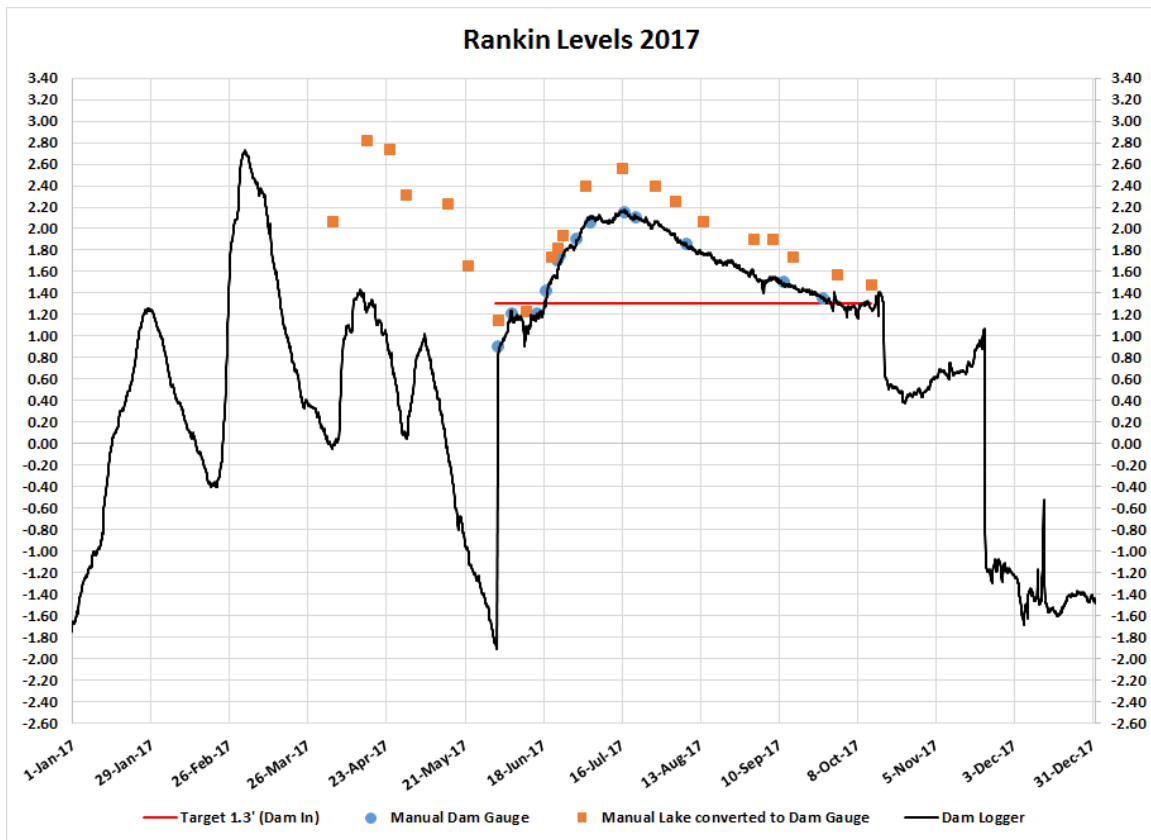
Proposed Changes to Dam Operations

Challenges still exist with installing the dam. Over the years, several of the year-round bottom boards have shifted or disappeared (floated away) and have not been replaced. This situation makes it very difficult to achieve a good seal when installing the stop logs. As well, the bottom logs will need replacement in the near future. Replacement of these bottom logs with aluminum logs would be ideal but expensive. This would permanently solve future issues of shifting and floating logs and would never require replacing. Prior to investing in more permanent bottom logs, consideration should be given to the final elevation of these logs. From past experience, leaving the 40 inches of logs on the bottom year round did improve the conditions for installing the dam without compromising the flood capacity. Could this elevation be raised even higher to create a water drop over the bottom boards and allow the dam to be installed one log at a time similar normal dams (no more logs floating and requiring them jacked down like a single gate)? This would also allow for better clearing of debris and prevent the need to hire a dive team. This change can be simply made but should not be done if the reduced capacity will put the dam at risk from flood flows. Unfortunately, due to the downstream nature of the channel and the complex hydraulics of the site, modeling would be very difficult and unreliable. Monitoring before and after conditions will provide the best insights for understanding the flow dynamics of the site.

Is the Dam in Control?

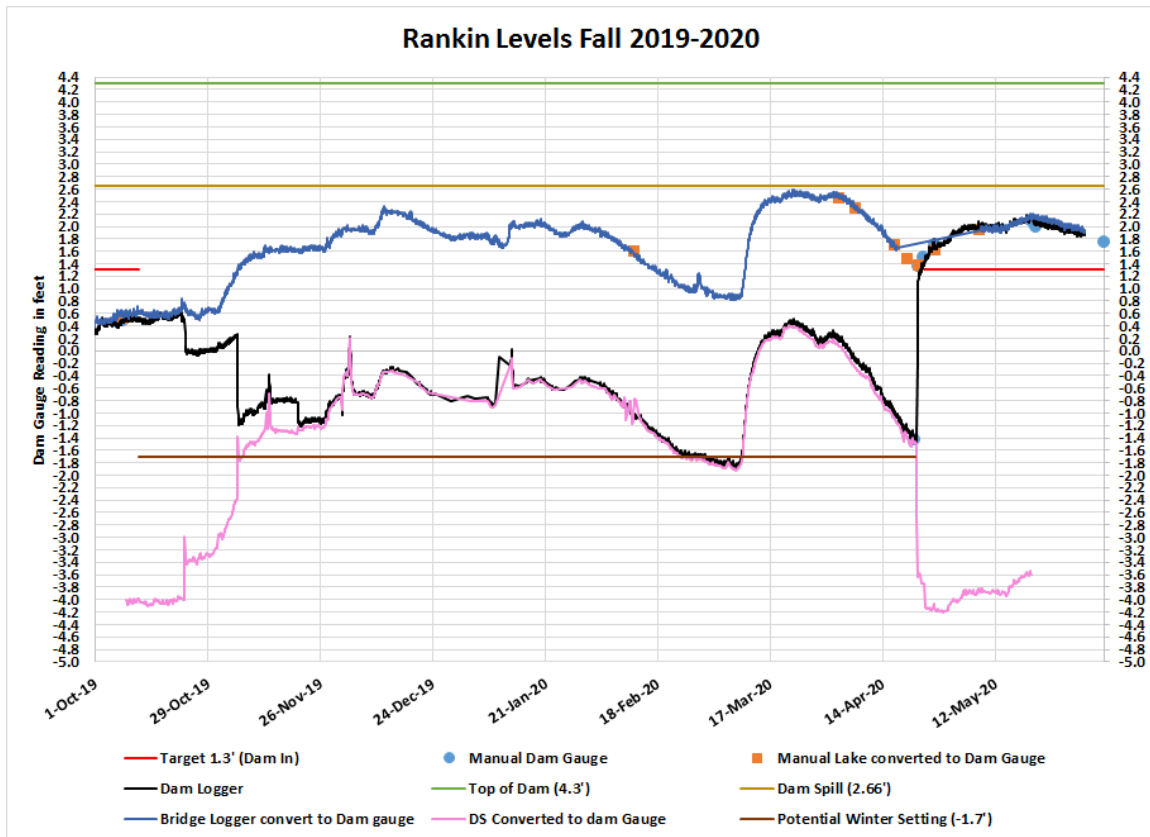
Obviously, when the dam is installed, it controls the water levels above the dam and ultimately at the lakes. The following charts show the relationship between the dam and the lake levels from 2015-2017 (logger installed at dam in 2015). The orange squares are manual reports from a volunteer on the lake and the blue circles are manual readings at the dam staff gauge. The red line indicates when the dam is installed.





These charts also show that the lake and dam levels differ greatly when the dam is not installed. Lake levels are always higher than levels at the dam.

The question now remains, what impact does the dam structure have on water levels when the stop logs are out? To answer this, in 2019, water level loggers were added to Boat Lake and downstream of the dam to help compliment the logger at the dam. The following chart shows the relationship.



Based on the data from the loggers, once the dam stop logs are pulled in the fall and the water levels equalize with the downstream levels, the dam no longer controls water levels. The downstream channel (pink line) controls the water levels through the dam site (black line). Unfortunately, the 2020 spring runoff was not very significant. Higher runoff flows could be restricted by the dam openings but it is anticipated that the downstream channel constrictions would still control the levels.

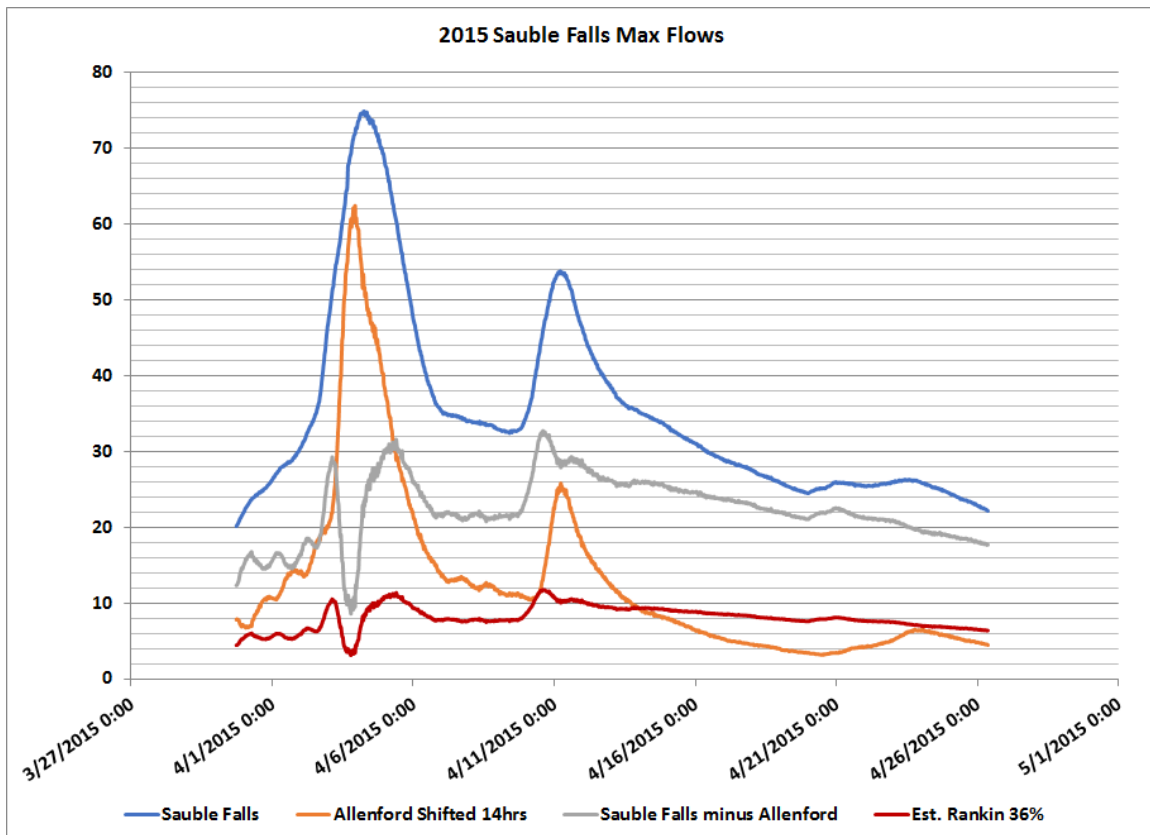
This chart also has some additional threshold lines added. The “Top of Dam” (green), “Dam Spill” (light brown) and the proposed new winter setting elevation (dark brown). The proposed elevation is 3 ft. below the summer operating target (38 inches higher than previous year round setting). Water levels through the dam remained above this elevation for most of the winter and spring runoff period. Only when flows from the lake were lowest, did levels at the dam reach this lower threshold. It is anticipated that when levels are this low, there will be a water drop created at the dam as water flows over the stop logs. The creation of this water drop prior to the time of installation will help staff install the dam one log at a time. The water pressure on the log will prevent it from floating and immediately set it into place. The dam can be installed in a manner similar to other dams.

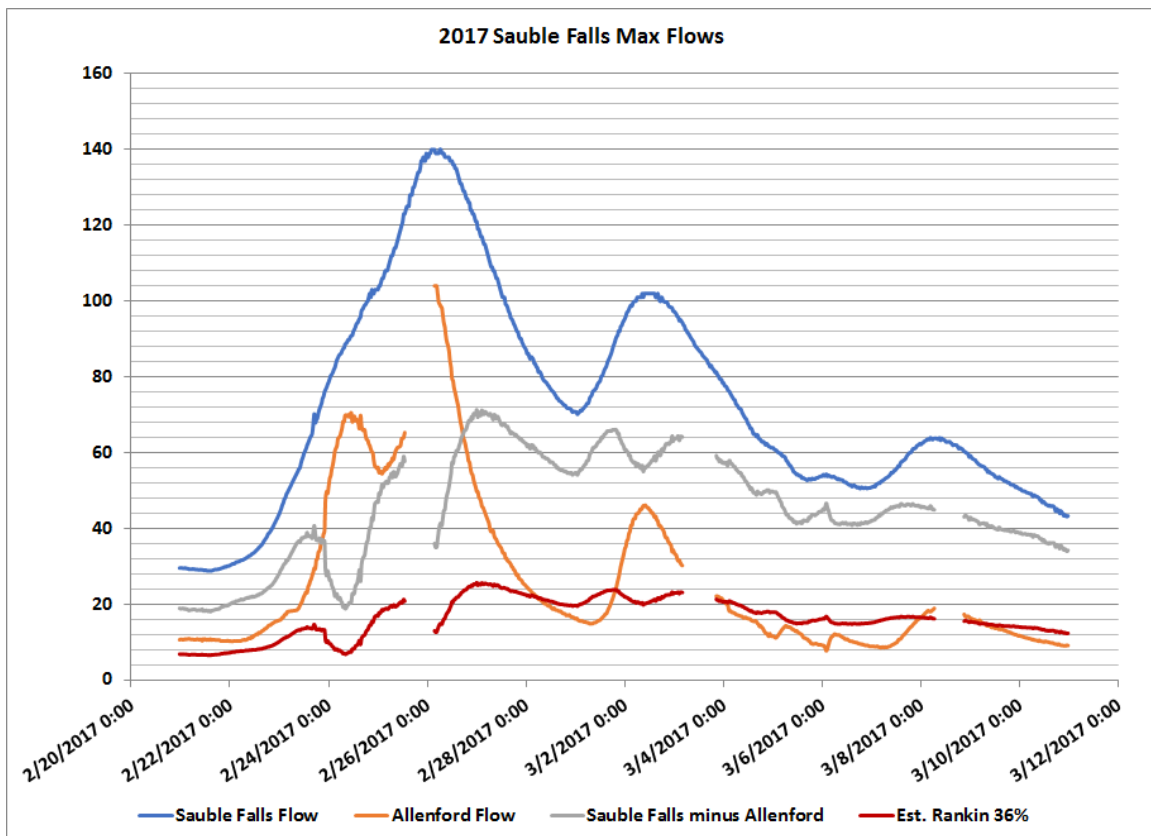
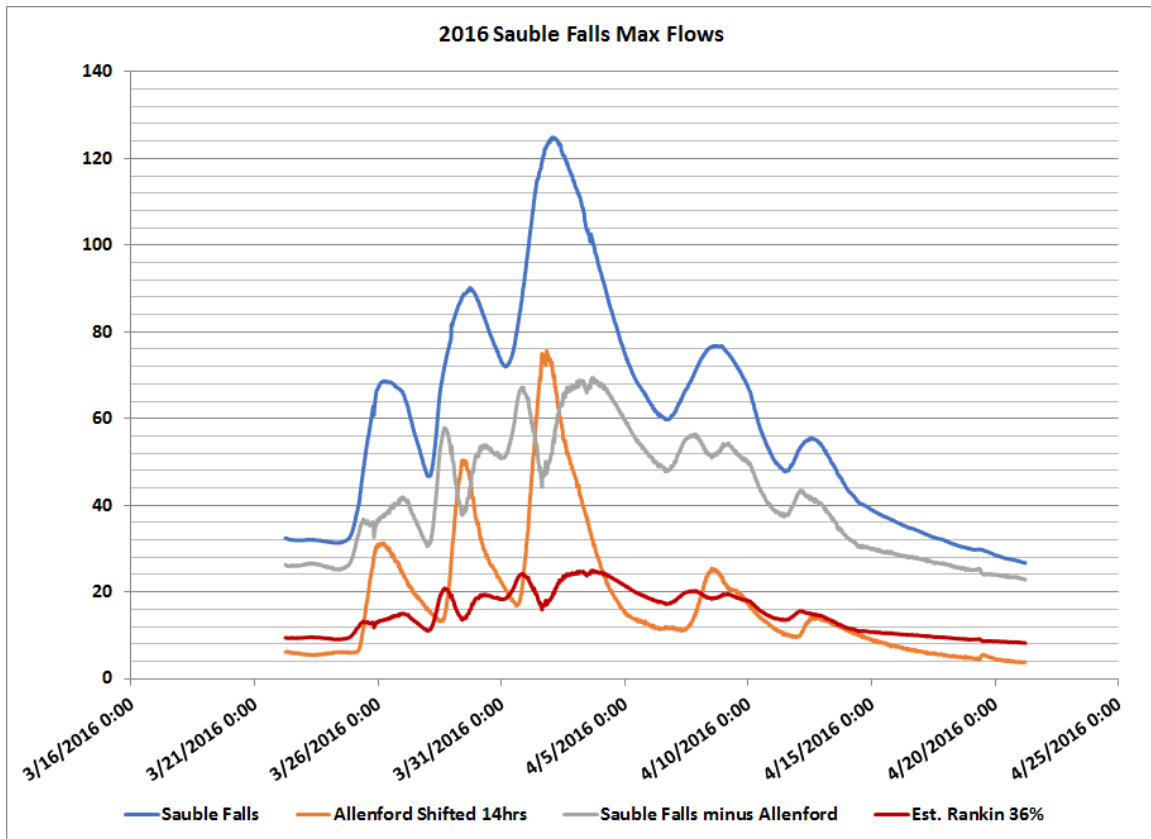
What’s the Risk?

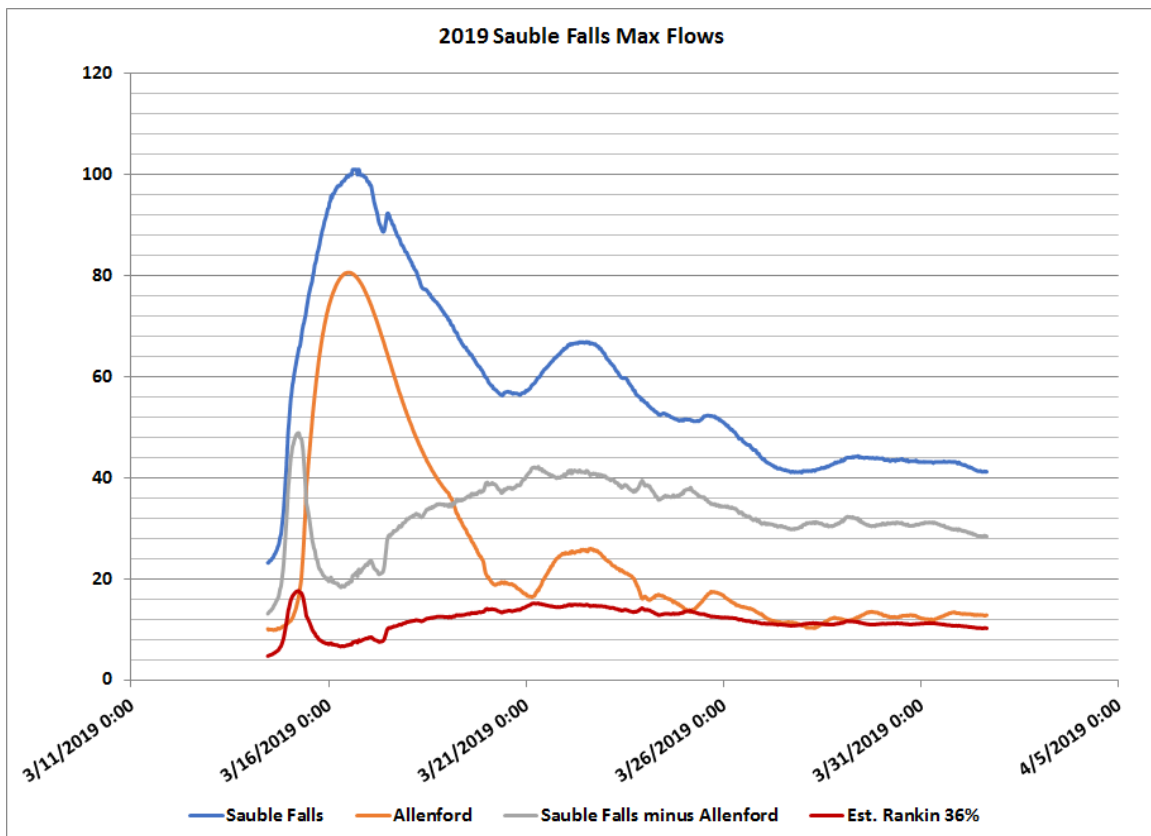
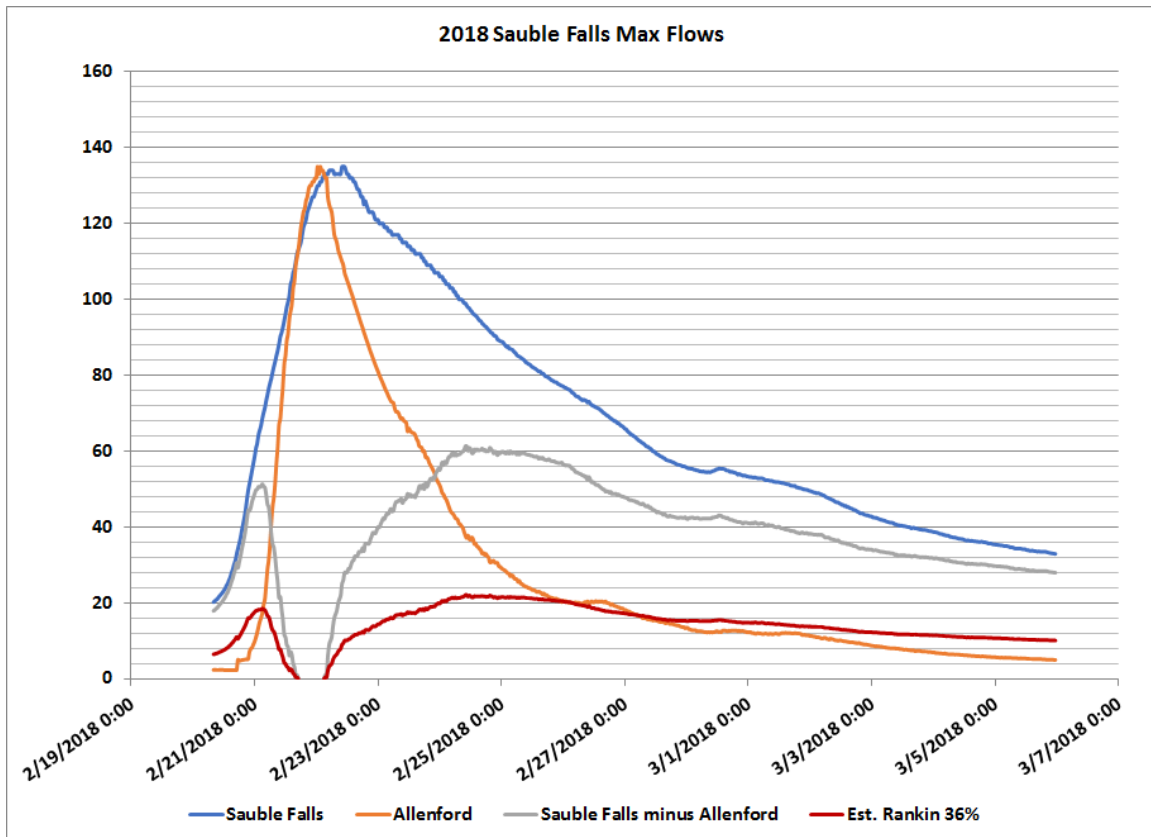
Unfortunately, there is very little flow data for the Rankin River system. In the early 1990’s, the “Clean Up Rural Beaches” (CURB) program collected flow data along with

water chemistry samples. This data was only collected during summer periods and not during high flow periods. The study determined that the Rankin River system supplied approximately 1/3 of the baseflow to Sauble Falls with the Spring Creek system contributing 1/3 flow and the south branch of the Sauble River at Allenford contributing the final third. The other smaller watersheds that flowed into the Sauble River between Allenford and Sauble Falls did not contribute significant baseflow.

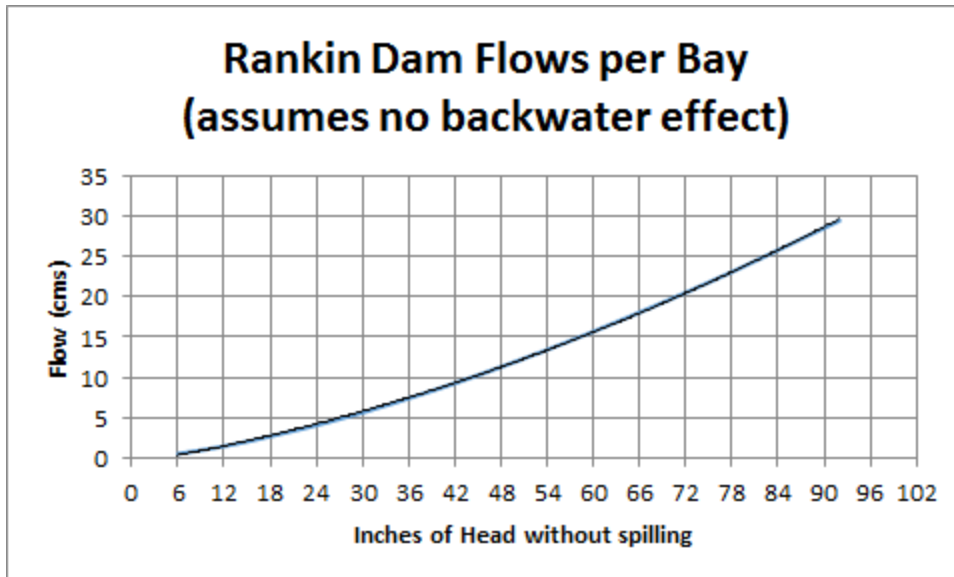
Fortunately, there is a long history of flow monitoring at the Sauble Falls and at the Allenford Water Surface of Canada gauges. These records can be compared to get a sense of the amount of flow from the Rankin system during high flow events (spring runoff). Flows at Allenford generally peak 14 hours before flows peak at Sauble Falls. The following charts compare the Allenford flows (shifted by 14 hours) with the Sauble Falls flows. As well, the charts show the Allenford flows subtracted from the Sauble Falls flows to get a sense of the “other flows” contributing to the Sauble Falls gauge. Based on watershed area, the Rankin system makes up approximately 36% of the land base contributing to these “other flows”. This 36% value is applied to the “other flows” as shown on the chart. This is a very rough estimation of the high flows coming from the Rankin system, but it does provide a sense of the magnitude of the flows.







During this 5 year period, Sauble Falls' highest recorded flow was 140 cms (2017). The maximum recorded flow for this station is 198 cms (1977). Based on the estimates for the Rankin system during these high flow events, maximum flows were estimated to be consistently below 25 cms. If levels at the Rankin dam were not controlled by the downstream channel, we could determine the capacity of dam at different board configurations. The following chart shows the flow capacity through a single bay in the dam until spill occurs at 16" above the Normal Operating Level (NOL). The NOL is shown as "0" inches of head (all logs installed). Additional "Inches of Head" beyond the 16 inches represents the capacity as logs are removed.



With 3 bays set 3 ft. below the Normal Operating Level (52" of maximum head before spilling), the dam has the capacity to pass 38 cms before flows begin to bypass the dam structure. If the dam controlled the high flow levels, it is estimated that these settings for the dam would be sufficient to safely pass normal high flow events (spring runoff).

However, as noted before, the downstream channel configuration controls the water levels through the dam site. With the proposed raised elevation of the year-round setting, the dam may now control some of the levels, especially during lower flows. This should not be an issue since the levels at the dam will still be below the spill elevations. This will be confirmed with ongoing monitoring. It is anticipated, as flows increase, the downstream control will take over and regulate the maximum water levels as before. The dam will only regulate levels during lower flow periods and the transition period between to two will occur well before levels are at risk of overflowing the dam.

Summary of Proposed Changes to Dam Operation and Monitoring

Starting in 2020, only 3 ft. of logs will be removed from each bay for the fall draw-down. The remaining logs will be pinned down to prevent them from shifting or floating. This new year-round elevation should not cause any new risk to the dam structure since the downstream channel configurations (backwater) control water levels through the dam site.

through high flow periods. Monitoring of the water levels at the lake, dam site and downstream of the dam site will continue and will be evaluated each spring to determine if the new settings are causing any unforeseen problems. Adjustments will be made to the settings if required. After 3 years of continuous monitoring, the changes to the operation of the dam will be re-evaluated to ensure the expected benefits are realized and the risk to the dam structure is minimal.



237897 Inglis Falls Road, R.R.#4, Owen Sound, ON N4K 5N6
Telephone: 519.376.3076 Fax: 519.371.0437
www.greysauble.on.ca

Frequently Asked Questions

Lake Huron & Georgian Bay Shoreline: Nearshore Permit Process

This document is intended to provide some basic answers to frequently asked questions regarding the GSCA nearshore permit process. This information is general in nature and may differ slightly based on the unique characteristics of each property. If you are considering works along the shoreline we always recommend that you contact our office regarding the specifics of your property and proposed works. More information, including a presentation on shoreline works, a permit application guide and supporting policy documents can be found on our website at <https://www.greysauble.on.ca/planning-regulations/>.

Q: [Do I need a permit for shoreline works?](#)

Q: [What do the terms “development” and “alteration” include?](#)

Q: [How is the Regulated Area determined on the shoreline?](#)

Q: [What is the 100-Year Lake Flood Level?](#)

Q: [Who should I contact for shoreline works?](#)

Q: [What if I’m not working in the water?](#)

Q: [Do I need engineered drawings?](#)

Q: [What if my dwelling is at immediate risk?](#)

Q: [Do I need a permit for landscaping?](#)

Q: [What is the shore road allowance?](#)

Q: Do I need a permit for shoreline works?

A: At the shoreline it is likely that you will require a permit from GSCA to undertake development or site alteration. To find out if your property is in a regulated area and if a permit is required, please contact GSCA directly via telephone or email to inquire. You can also check our online [Regulations Mapping](#) to determine if your project is located in a regulated area.

Q: What do the terms “development” and “alteration” include?

A: GSCA has interest in “development”, “alteration”, and/or interference within Regulated Areas. Development is defined as any construction, reconstruction, or placement of a structure; any



Watershed Municipalities
Arran-Elderslie, Chatsworth, Georgian Bluffs, Grey Highlands
Meaford, Owen Sound, South Bruce Peninsula, Blue Mountains

2020-04-07

change to a building or structure that would alter its use or number of dwelling units; any site grading; or the temporary or permanent placement or removal of fill material. Alteration is considered the straightening, diverting or interfering in any way with the existing channel of a watercourse, or interfering in any way with a wetland. If you are unsure how this may apply to your project, please contact our office.

Q: How is the Regulated Area determined on the shoreline?

A: The regulated area encompasses a 15-metre setback for wave uprush and other water-related hazards from the 100-Year Flood Lake Level, plus an additional 15-metre regulated allowance. Other Water-Related Hazards means water-associated phenomena other than flooding hazards and wave uprush which act on shorelines. This includes, but is not limited to ship-generated waves, ice piling and ice jamming. Where a sloped shoreline (cliff, bluff, or bank) or a dynamic beach is present, the regulated allowance may extend further inland to account for the potential increase in hazards associated with these features. Further information regarding these setbacks can be found in the [administrative policy document](#) available on our website.

Q: What is the 100-Year Lake Flood Level?

A: The 100-Year Lake Flood Level is an elevation that was determined through a study that was completed by the Province in 1988 in response to the highwater levels observed in 1986. As per the Provincial Policy Statement 2020([PPS](#)), this is defined as the peak instantaneous stillwater level, resulting from combinations of mean monthly lake levels and wind setups, which has a 1% chance of being equalled or exceeded in any given year.

Q: Who should I contact for shoreline works?

A: For shoreline works you should start by contacting GSCA and you may need to contact other agencies including Ministry of Natural Resources and Forestry (MNRF), the local municipality, the Federal Department of Fisheries and Oceans (DFO), Transport Canada, and local indigenous communities.

Q: What if I'm not working in the water?

A: Even if works are occurring outside of the water, GSCA's regulated area includes lands that are close or adjacent to the shoreline that could be affected by hazards such as flooding, erosion and dynamic beaches. Property owners should contact GSCA prior to undertaking any development or site alterations.

Q: Do I need engineered drawings?

A: If you are repairing or replacing existing shoreline protection works, engineering is typically not a requirement (but it would be highly recommended). If you are proposing new erosion protection, a complete permit application may require the support of a qualified coastal engineer.

Q: What if my dwelling is at immediate risk?

A: If works are required immediately to protect a privately-owned dwelling from wave uprush and other water related hazards due to a flood and erosion emergency consultation is needed with GSCA prior to the work being completed. A permit is not required to place sandbags in an emergency.

Q: Do I need a permit for landscaping?

A: If your landscaping plans are not changing the grade or altering the drainage on your property in any way, these landscaping works would be exempt from requiring a permit from GSCA. If you are placing any fill material, even if it is to replace previously existing material, a permit may be required, and you should contact our office.

Q: What is the shore road allowance?

A: Some areas along the shoreline have a shore road allowance. This area is an allowance laid out around a lake as part of an original survey for the local municipality. Where a shore road allowance exists and an adjacent landowner is proposing development or alteration within this feature, the local municipality needs to be contacted.

Related Links and Contacts

- [GSCA Nearshore Permit Process Presentation](#)
- Fisheries and Oceans Canada <http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>
- Ministry of Natural Resources and Forestry <https://www.ontario.ca/page/crown-land-work-permits>
- Transport Canada <https://www.tc.gc.ca/eng/programs-633.html>
- Saugeen Ojibway Nation Environmental Office
<https://www.saugeenojibwaynation.ca/about/for-proponents/>
- Historic Saugeen Métis <http://saugeenmetis.com/>
- The Métis Nation of Ontario <http://www.metisnation.org/>
- Saugeen First Nation <https://saugeenfirstnation.ca/>
- Chippewas of Nawash Unceded First Nation <https://www.nawash.ca/>
- Local Municipality



STAFF REPORT

Report To: Board of Directors

Report From: Gloria Dangerfield, Manager of Information Services &
Andrew Sorensen, Environmental Planning Coordinator

Meeting Date: June 24, 2020

Report Code: 17-2020

Subject: Regulation 151/06 Regulatory Mapping - Board Information 2020

Recommendation: Information Update on Ongoing Regulation Mapping Updates

Background:

Section 2.1 of the text of Ontario Regulation 151/06 states all the areas where development is to be regulated by GSC through the issuance of permits. This includes:

- Watercourses (meander belt and confined valleys),
- Flood Prone Areas,
- Great Lakes Shoreline,
- Wetlands/Waterbodies,
- Associated allowances

The text of the Regulation determines the actual regulated area, and GSC staff use mapping as a screening tool. Staff visit the sites prior to making permit decisions. Minor mapping updates are continuously made and checked to reflect the most accurate conditions on the ground using current sources and technology.

GSC's minor mapping updates rigor has led to developing some of the best and most detailed mapping available in the watershed. In addition to its use for regulatory permits, it is used for reference when reviewing planning applications under municipal Memorandums of Understanding (MOU) for Natural Heritage and to provide input on behalf of the province on Natural Hazards.

The Ministry of Natural Resources and Forestry(MNRF) has leadership on changes to provincially significant wetland boundaries, GSC staff do not update these boundaries, and provide their input to MNRF on recommended changes, and incorporate any decisions from MNRF.

Analysis:

In full alignment with the September 2017 Board-endorsed process, GSC staff have used the newest-available map version for:

- discussions with the public and the screening of applications, and
- the maps on GSC's own website and the Grey and Bruce County mapping websites.

For in-depth information on the recommended guidelines, by Conservation Ontario, for large-scale mapping updates please see [this link](#).

See Appendix A for a listing of all changes since the 2019 board update and examples of the changes.

See Appendix B to see the Regulations Mapping Updates Procedure approved by the GSC board in September 2017.

See [this link](#) for general information by Conservation Ontario.

Financial/Budget Implications:

None

Communication Strategy:

Member municipalities will receive an email with associated information and the spatial data and tables in the form of shapefiles and pdf. The counties will be provided the data for upload to their web mapping sites and the Grey Sauble web mapping site. This data will be updated 2 to 3 times per year depending on the number of updates.

Consultation:

- GSC Staff
- MNRF (Provincially-significant wetlands changes)

ON Regulation 151/06 2019 to 2020 Screening Map Updates List

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Arran Township	76	Added flood prone	Stereo/orthos	LOT 35	HMS	76-092419-1	1
		92	Added wet flood prone area	swoop2015	LOT 41		92-102119-1	1
		93	Added flood prone	observed (AS)	LOT 40		93-050919-1	1
			Added watercourse/redefined as mb (not wetland)	swoop2015			93-050919-2	1
			Wetland		LOT 41		93--102119-1	1
		110	Removed regs from aggregates properties	Aggregates Data	LOT 12	CON 6	110-062719-1	1
					LOT 13	CON 7	110-062719-1	1
						CON 6	110-062719-1	1
						CON 7	110-062719-1	1
						CON 8	110-062719-1	1
						CON 9	110-062719-1	1
					LOT 14	CON 6	110-062719-1	1
						CON 7	110-062719-1	1
						CON 8	110-062719-1	1
					LOT 15	CON 6	110-062719-1	1
						CON 7	110-062719-1	1
						CON 8	110-062719-1	1
					LOT 16	CON 7	110-062719-1	1
						CON 8	110-062719-1	1
						CON 9	110-062719-1	1
					LOT 17	CON 7	110-062719-1	1
						CON 9	110-062719-1	1
					LOT 18	CON 7	110-062719-1	1
			Removed regs from aggregates properties - reduced meander belt slightly for watercourse reduction	Aggregates Data - Site visit	LOT 13	CON 9	110-062719-1	1
					LOT 14		110-062719-1	1
					LOT 15		110-062719-1	1
					LOT 21		111-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
Municipality Of Arran- Elderslie	Township	111	Removed regs from aggregates properties	Aggregates Data	LOT 22	CON 5	111-062719-1	2	
			Removed regs from aggregates properties - added seasonal swale	Aggregates Data - SWOOP2010 Photography		CON 4	111-062719-1	1	
						CON 5	111-062719-1	1	
				LOT 23	CON 4	111-062719-1	1		
					CON 5	111-062719-1	1		
		126	Removed regs from aggregates properties - removed adjacent valley setback - not steep confined valley	Aggregates Data - Dem2	LOT 22	CON 1	126-062719-1	1	
					LOT 23		126-062719-1	1	
						CON 2	126-062719-1	1	
					CON 3		126-062719-1	1	
							LOT 24	CON 1	126-062719-1
						CON 2		126-062719-1	1
					CON 3			126-062719-1	1
							LOT 25	CON 1	126-062719-1
						CON 2		126-062719-1	1
					CON 3			126-062719-1	1
							LOT 26	CON 1	126-062719-1
						CON 2		126-062719-1	1
					LOT 27	CON 1	126-062719-1	1	
						CON 2	126-062719-1	1	
					LOT 28	CON 1	126-062719-1	1	
					LOT 29		126-062719-1	1	
					LOT 30		126-062719-1	1	
		CON 2	126-062719-1	1					
			127	Removed regs from aggregates properties - realigned watercourse	Aggregates Data - SWOOP2010	LOT 31	CON 1	126-062719-1	1
		127-062719-1						1	
	LOT 32	127-062719-1				1			
					LOT 23	CON 14	126-062719-1	1	
					LOT 24		126-062719-1	1	
LOT 26					126-062719-1		1		

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Elderslie Township	126	Removed regs from aggregates properties - removed adjacent valley setback - not steep confined valley	Aggregates Data - Dem2	LOT 27		126-062719-1	1
					LOT 28	CON 12	126-062719-1	1
						CON 13	126-062719-1	1
						CON 14	126-062719-1	1
					LOT 29	CON 13	126-062719-1	1
						CON 14	126-062719-1	1
					LOT 30	CON 13	126-062719-1	1
						CON 14	126-062719-1	1
					126-062719-1		1	
		127-062719-1	1					
		127-062719-1	1					
		127	Removed regs from aggregates properties	Aggregates Data	LOT 33	CON 14	127-062719-1	1
	Removed regs from aggregates properties - realigned watercourse		Aggregates Data - SWOOP2010	LOT 34	127-062719-1		1	
LOT 31				127-062719-1	1			
Municipality Of Arran-Elderslie Total								69
					LOT 30	CON 8	158-062719-1	1
					LOT 31	CON 10	158-062719-1	1
						CON 8	158-062719-1	1
						CON 9	158-062719-1	1
					LOT 32	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	1
						CON 8	158-062719-1	1
						CON 9	158-062719-1	1
					LOT 33	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	1
						CON 8	158-062719-1	1
						CON 9	158-062719-1	1
						CON 10	158-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		158	Removed regs from aggregates properties	Aggregates Data	LOT 34	CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	1
						CON 8	158-062719-1	1
						CON 9	158-062719-1	1
					LOT 35	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	1
						CON 8	158-062719-1	1
						CON 9	158-062719-1	1
					LOT 36	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	1
						CON 8	158-062719-1	1
					LOT 37	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	1
						CON 8	158-062719-1	1
					LOT 38	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	2
						CON 8	158-062719-1	1
					LOT 39	CON 10	158-062719-1	1
						CON 11	158-062719-1	1
						CON 12	158-062719-1	1
						CON 7	158-062719-1	2
						CON 8	158-062719-1	1
					LOT 40	CON 11	158-062719-1	1
						CON 12	158-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Artemesia Township	163			LOT 40	CON 7	158-062719-1	1
						CON 8	158-062719-1	1
					LOT 150	CON 3 NETSR	163-062719-1	1
					LOT 151		163-062719-1	3
					LOT 152		163-062719-1	3
					LOT 153		163-062719-1	2
					LOT 154		163-062719-1	2
					LOT 155		163-062719-1	2
					LOT 156		163-062719-1	1
					LOT 25	CON 6	163-062719-1	1
					LOT 26		163-062719-1	2
					LOT 27	CON 7	163-062719-1	1
						CON 6	163-062719-1	2
					LOT 28	CON 7	163-062719-1	1
						CON 5	163-062719-1	2
						CON 6	163-062719-1	2
						CON 7	163-062719-1	1
					LOT 29	CON 8	163-062719-1	1
						CON 5	163-062719-1	1
						CON 6	163-062719-1	1
						CON 7	163-062719-1	1
					LOT 30	CON 8	163-062719-1	1
						CON 6	163-062719-1	1
						CON 7	163-062719-1	1
						CON 8	163-062719-1	1
						CON 6	163-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
			Removed regs from aggregates properties - added setback for online wetland	Aggregates Data - Wet areas/SWOOP2010 Photography	LOT 151	CON 3 NETSR	163-062719-1	1
			Removed regs from aggregates properties - should tis be regulated?- added pond from dam inventory created ponds	Aggregates Data - SWOOP2010 Photography (pond inventory for dam inv.)			163-062719-1	1
		164	Corected area that was clipped out/removed regs from aggregates properties - altered wetland	Aggregates Data - SWOOP2010	LOT 30	CON 7	164-072919-1	1
						CON 8	164-072919-1	1
					LOT 31	CON 7	164-072919-1	1
						CON 8	164-072919-1	1
					LOT 32	CON 7	164-072919-1	1
						CON 8	164-072919-1	1
					LOT 33	CON 7	164-072919-1	1
					LOT 34		164-072919-1	1
					LOT 35		164-072919-1	1
					LOT 36	CON 6	164-072919-1	1
						CON 7	164-072919-1	1
					LOT 37	CON 6	164-072919-1	1
						CON 7	164-072919-1	1
					LOT 38	CON 5	164-072919-1	1
						CON 6	164-072919-1	1
						CON 7	164-072919-1	1
					LOT 39	CON 5	164-072919-1	1
						CON 6	164-072919-1	1
						CON 7	164-072919-1	1
					LOT 40	CON 5	164-072919-1	1
						CON 6	164-072919-1	1
			Added 3:1 + 15m setback		LOT 155	CON 2	168-021120-1	1
					LOT 156		168-021120-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
Municipality Of Grey Highlands		168	Added in stereo	Stereo2010	LOT 154	CON 2 SWTSR	168-012420-1	1
					LOT 155		168-012420-1	3
							168-012420-1	2
			Added missing wetland	swoop2015	LOT 156	CON 3 SWTSR	168-012720-1	1
			Adjusted wetland		LOT 157	CON 2 SWTSR	168-012420-1	1
						CON 3 SWTSR	168-012420-1	1
			Updated	Stereo2010	LOT 155	CON 2 SWTSR	168-022420-1	1
					LOT 156		168-022420-1	1
					LOT 157		168-022420-1	1
			Updated valley setback from stereo		LOT 155		168-021919-1	1
					LOT 156		168-021919-1	1
					LOT 157		168-021919-1	1
					LOT 158		168-021919-1	1
			Euphrasia Township		119		Adjusted valley slightly to match slopes + setback)	Slope areas
	120	Added missing wetland		swoop2015	LOT 18	CON 6	120-102119-1	1
		140	Removed regs from aggregates properties	Aggregates Data	LOT 22	CON A	140-062719-1	2
					LOT 23		140-062719-1	1
					LOT 24		140-062719-1	1
					LOT 37	CON 12	140-062719-1	1
		151	Added wetland/fixed setback	swoop2010/2015	LOT 5	CON 14	151-240619-1	1
					LOT 6		151-240619-1	1
		152	Add wetland & flood prone based on hazard				152-240619-1	1
					LOT 7		152-240619-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		153	Removed regs from aggregates properties	Aggregates Data	LOT 17	CON 10	153-062719-1	1
						CON 9	153-062719-1	1
					LOT 18	CON 10	153-062719-1	1
					LOT 23	CON 11	153-062719-1	1
						CON 12	153-062719-1	2
					LOT 24	CON 11	153-062719-1	2
						CON 12	153-062719-1	2
					LOT 25	CON 11	153-062719-1	1
						CON 12	153-062719-1	2
					LOT 26	CON 10	153-062719-1	1
					LOT 27		153-062719-1	1
					LOT 28	CON 11	153-062719-1	1
						CON 10	153-062719-1	1
						CON 12	153-062719-1	1
					LOT 29	CON 10	153-062719-1	1
						CON 11	153-062719-1	1
						CON 12	153-062719-1	1
					LOT 30	CON 10	153-062719-1	1
							153-062719-1	1
			Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Nrvs wet areas layer	LOT 26	CON 11	153-062719-1	1
			Add wetland & setback	SWOOP2010 Photography, 1991, updated psw, obm paper maps	LOT 30	CON 9	154-081711-1	1
					LOT 31	CON 8	154-081711-1	1
						CON 9	154-081711-1	1
					LOT 32	CON 8	154-081711-1	1
						CON 9	154-081711-1	1
			Fixed psw setback	Evaluated Wetlands layer	LOT 31	CON 8	154-190220-1	1
						CON 9	154-190220-1	1
					LOT 32	CON 8	154-190220-1	1
						CON 9	154-190220-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Osprey Township	154	Removed regs from aggregates properties	Aggregates Data	LOT 33	CON 8	154-190220-1	1
						CON 9	154-190220-1	1
					LOT 17	CON A	154-062719-1	1
					LOT 18		154-062719-1	1
					LOT 19		154-062719-1	3
					LOT 20		154-062719-1	2
			Removed regs from aggregates properties - added missing pieces of wetland setback	Aggregates Data - SWOOP2010 Photography & wetland mapping	LOT 37	CON 12	154-062719-1	1
					LOT 19	CON A	154-062719-1	1
							154-062719-1	1
					LOT 20	CON 10	154-062719-1	1
							154-062719-1	1
					LOT 30	CON 11	154-062719-1	1
						CON 11	154-062719-1	1
					LOT 31	CON 10	154-062719-1	1
						CON 11	154-062719-1	1
						CON 9	154-062719-1	1
					LOT 32	CON 10	154-062719-1	1
						CON 11	154-062719-1	1
						CON 12	154-062719-1	1
						CON 9	154-062719-1	1
					LOT 33	CON 10	154-062719-1	1
						CON 11	154-062719-1	1
						CON 12	154-062719-1	1
						CON 9	154-062719-1	1
					LOT 34	CON 10	154-062719-1	1
						CON 11	154-062719-1	1
						CON 12	154-062719-1	1
						CON 9	154-062719-1	1
					LOT 35	CON 10	154-062719-1	1
						CON 11	154-062719-1	1
						CON 12	154-062719-1	1
						CON 9	154-062719-1	1
					LOT 36	CON 10	154-062719-1	1
						CON 11	154-062719-1	1
						CON 12	154-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total		
			Removed regs from aggregates properties	Aggregates Data	LOT 37	CON 9	154-062719-1	1		
						CON 10	154-062719-1	1		
						CON 11	154-062719-1	1		
						CON 12	154-062719-1	1		
		158			LOT 1	CON 11	158-062719-1	1		
						CON 7	158-062719-1	1		
						CON 8	158-062719-1	1		
					LOT 2	CON 11	158-062719-1	1		
						CON 6	158-062719-1	1		
						CON 7	158-062719-1	1		
					CON 8	158-062719-1	1			
					LOT 3	CON 11	158-062719-1	1		
						CON 6	158-062719-1	1		
						CON 7	158-062719-1	1		
					CON 8	158-062719-1	1			
		159			LOT 10	CON 7	159-062719-1	1		
						CON 8	159-062719-1	1		
					LOT 11		159-062719-1	1		
					LOT 12		159-062719-1	1		
					LOT 13		159-062719-1	1		
					LOT 14		159-062719-1	1		
					LOT 15	CON 9	159-062719-1	1		
						CON 8	159-062719-1	1		
					CON 9	159-062719-1	1			
						LOT 3	CON 8	159-062719-1	1	
					159-062719-1			1		
					LOT 4	CON 8	159-062719-1	1		
							159-062719-1	1		
					LOT 5	CON 7	159-062719-1	1		
						CON 8	159-062719-1	1		
					LOT 6	CON 7	159-062719-1	2		
						CON 8	159-062719-1	1		
					LOT 7	CON 7	159-062719-1	2		
						CON 8	159-062719-1	1		
					LOT 8	CON 7	159-062719-1	1		

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
					LOT 8	CON 8	159-062719-1	1
					LOT 9	CON 7	159-062719-1	1
						CON 8	159-062719-1	1
		160	Added missing wetland	mnrf wetlands/stereo and site visit	LOT 15	CON 5	160-300719-1	1
					LOT 16	CON 4	160-300719-1	1
						CON 5	160-300719-1	1
			LOT 17	CON 4	160-300719-1	1		
			Realigned wetland		swoop2015	LOT 16	160-270619-1	1
				CON 5		160-270619-1	1	
				LOT 17		CON 4	160-270619-1	1
						CON 5	160-270619-1	1
						CON 6	160-270619-1	1
				LOT 18		CON 4	160-270619-1	1
						CON 5	160-270619-1	1
						CON 6	160-270619-1	1
				LOT 19		CON 4	160-270619-1	1
						CON 5	160-270619-1	1
						CON 6	160-270619-1	1
				LOT 20		CON 5	160-270619-1	1
				LOT 21			160-270619-1	1
			Removed regs from aggregates properties	Aggregates Data	LOT 17	CON 10	160-062719-1	1
						CON 9	160-062719-1	1
					Realigned wetland	swoop2015	LOT 18	CON 8
			CON 9	160-062719-1				1
			LOT 19	CON 8			160-062719-1	1
				CON 9			160-062719-1	1
			LOT 20	CON 8			160-062719-1	1
				CON 9			160-062719-1	1
		166	Realigned wetland	swoop2015	LOT 17	CON 4	166-300719-1	1
					LOT 18		166-300719-1	1
					LOT 19		166-300719-1	1
Municipality Of Grey Highlands Total								277

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
Municipality Of Meaford	St. Vincent Township	73	Added meander belt according to watercourse addition	Jb site visit/gps	LOT 11	CON 1	73-121506-1	1	
			Added meander belt according to watercourse update				73-010207-1	1	
			Adjusted toe reg to breakline at toe				73-010207-4	1	
			breaklines (2010)	LOT 8	73-060419-1		1		
				LOT 9	73-060419-1		1		
			LIDAR Contours/stereo2010/swoop2015	LOT 10	73-051220-1		1		
		LOT 11		73-051220-1	1				
		86	Removed regs from aggregates properties - removed meander belt for southerly trib that was removed	Aggregates Data - Jb site visit/gps	LOT 6	CON 5	86-062719-1	1	
						CON 6	86-062719-1	1	
					LOT 7	CON 5	86-062719-1	1	
						CON 6	86-062719-1	1	
			37	Reg based on meander belt (20x stream width centred over axis) plus 15m	swoop2015	LOT 5	CON BF	37-062719-1	1
			46	Removed regs from aggregates properties	Aggregates Data	LOT 10	CON B	46-062719-1	1
							CON C	46-062719-1	1
	LOT 11					46-062719-1		1	
	LOT 12					46-062719-1		1	
	LOT 13					46-062719-1		1	
	LOT 16					46-062719-1		1	
	LOT 17					46-062719-1		1	
	LOT 18					46-062719-1		1	
	LOT 31					CON 4	46-062719-1	1	
	LOT 32					CON 3	46-062719-1	1	
						CON 4	46-062719-1	1	
	LOT 33					CON 3	46-062719-1	1	
						CON 4	46-062719-1	1	
	LOT 8	CON A	46-062719-1	1					
		CON BF	46-062719-1	1					
		CON C	46-062719-1	1					
	CON A	46-062719-1	1						

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total		
	Sydenham Township				LOT 9	CON B	46-062719-1	1		
						CON BF	46-062719-1	1		
						56	Removed regs from aggregates properties - removed valley setback add meander belt	Aggregates Data - Dem2 & contours (not confined valley)	CON C	46-062719-1
		56-062719-1	1							
		LOT 20	CON B	56-062719-1	1					
		LOT 21		56-062719-1	1					
		LOT 22	CON C	56-062719-1	1					
			CON B	56-062719-1	1					
		LOT 23	CON B	56-062719-1	1					
		LOT 24		56-062719-1	1					
		83	Removed regs from aggregates properties	Aggregates Data	LOT 7	CON 5	83-062719-1	1		
					LOT 8		83-062719-1	1		
					LOT 9		83-062719-1	1		
		99	Added missing section and realigned	swoop2015	LOT 4	CON 10	99-012519-1	1		
					LOT 5		99-012519-1	1		
					LOT 6		99-012519-1	1		
		100	Removed regs from aggregates properties	Aggregates Data	LOT 7	CON 5	100-062719-1	1		
					LOT 7		100-062719-1	2		
			Removed regs from aggregates properties - extended upstream end of watercourse	Aggregates Data - SWOOP2010	LOT 4		100-062719-1	1		
					LOT 5		100-062719-1	1		
					LOT 6		100-062719-1	1		
LOT 7	100-062719-1				1					
LOT 7	100-062719-1				1					
Municipality Of Meaford Total								51		
		73	Adjusted toe reg to breakline at toe	breaklines (2010)	LOT 37	CON 12	73-060419-1	1		
			Adjusted toe/reduced ridge to 3:1 +15m	LIDAR Contours/stereo2010/swoop2015	LOT 38		73-060419-1	1		
					LOT 40		73-051220-1	1		
			Adjusted setback to 3:1 + 30m with adjusted 1 m contours	Aggregates Data/Little beaver erosion study	LOT 34	CON 10	88-022020-1	1		
			Corrected the meander belt mapping to 20* bankfull width of ~6m + 15m for a total of 75m on each side of the meander belt axis	2010 Air Photos, 2019 LiDAR	LOT 35		88-190220-1	1		
							88-190220-1			
								1		

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
The Blue Mountains	Collingwood Township	88	Removed regs from aggregates properties - changed meander belt to valley - error in original mapping	Aggregates Data - 1m & 5m contours	LOT 27	CON 11	88-062719-1	1
					LOT 28		88-062719-1	1
					LOT 29	CON 12	88-062719-1	1
						CON 10	88-062719-1	1
						CON 11	88-062719-1	1
						CON 12	88-062719-1	1
					LOT 30	CON 10	88-062719-1	1
						CON 11	88-062719-1	1
						CON 12	88-062719-1	1
					LOT 31	CON 10	88-062719-1	1
		LOT 34	88-200220-2	1				
		LOT 35	88-200220-2	1				
		107	Adjusted 30 metre setback from wetland	swoop2010	LOT 15	CON 5	107-121619-1	1
			LOT 16		107-121619-1		1	
			Fixed wetland setback	LOT 15	CON 6	107-010519-1	1	
		122	Changed to flood prone from menader belt	swoop2015	LOT 14	CON 11	122-060519-1	1
			LOT 13		122-060519-2		1	
			Realigned		LOT 14		122-060519-2	1
					CON 12	122-060519-2	1	
		124	Added missing wetland setback	swoop2015/wetland layer	LOT 12	CON 4	124-240619-1	1
			Removed regs from aggregates properties	LOT 13	124-240619-1		1	
				LOT 7	124-062719-1		1	
				LOT 8	124-062719-1		1	
		137	Added wetland	SWOOP2015/also mapped in mnrf wetlands	LOT 4	CON 12	137-050619-1	1
			Slight change to top of slope + 15m	swoop2015/contours	LOT 3	CON 11	137-050619-2	1
					LOT 4		137-050619-2	1
		139	Removed regs from aggregates properties	Aggregates Data	LOT 3	CON 4	139-062719-1	1
					LOT 4		139-062719-1	1
					LOT 5		139-062719-1	1
							139-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
			Removed regs from aggregates properties - added pond setback from dam inventory	Aggregates Data - SWOOP2010 Photography	LOT 6		139-062719-1	1
The Blue Mountains Total								37
			Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Nrvs wet areas layer	TOWN PLOT OF ADAIR	(blank)	2-062719-1	1
			Removed regs from aggregates properties - extended wetland boundary	Aggregates Data - SWOOP2010			2-062719-1	1
		6	Removed regs from aggregates properties	Aggregates Data	LOT 1	CON 1 EBR	6-062719-1	1
						CON 1 WBR	6-062719-1	1
						CON 2 WBR	6-062719-1	1
					LOT 2	CON 1 EBR	6-062719-1	2
						CON 1 WBR	6-062719-1	1
						CON 2 EBR	6-062719-1	1
						CON 2 WBR	6-062719-1	1
			Removed regs from aggregates properties - realigned watercourse	Aggregates Data - SWOOP2010	LOT 3	CON 1 WBR	6-062719-1	1
						CON 2 EBR	6-062719-1	1
			Added wet area setback for wetland overlapping psw	Wet areas/psw	LOT 13	CON 5 EBR	07-080509-3	1
					LOT 14		07-080509-3	1
			Added wetland	swoop2015	LOT 6	CON 3 EBR	07-121919-1	1
						CON 4 EBR	07-121919-1	1
						CON 5 EBR	07-121919-1	1
					LOT 7	CON 3 EBR	07-121919-1	1
						CON 4 EBR	07-121919-1	1
						CON 5 EBR	07-121919-1	1
					LOT 8	CON 4 EBR	07-121919-1	1
						CON 5 EBR	07-121919-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Albemarle Township	7	Adjusted wetland	swoop2010	LOT 9	CON 6 EBR	07-102412-1	1
			Realigned	swoop2015	LOT 11	CON 2 EBR	07-121919-2	1
					LOT 12		07-121919-2	1
			Removed regs from aggregates properties	Aggregates Data	LOT 2		7-062719-1	1
					LOT 3		7-062719-1	1
			Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Nrvs wet areas layer	LOT 5	CON 3 EBR	7-062719-1	1
			Updated wetland boundary	swoop2015	LOT 11	CON 2 EBR	07-20191219-1	1
						CON 3 EBR	07-20191219-1	1
						CON 4 EBR	07-20191219-1	1
						CON 5 EBR	07-20191219-1	1
					LOT 12	CON 2 EBR	07-20191219-1	1
						CON 3 EBR	07-20191219-1	1
						CON 4 EBR	07-20191219-1	1
						CON 5 EBR	07-20191219-1	1
					LOT 13	CON 3 EBR	07-20191219-1	1
						CON 4 EBR	07-20191219-1	1
						CON 5 EBR	07-20191219-1	1
					LOT 14	CON 3 EBR	07-20191219-1	1
						CON 4 EBR	07-121919-1	1
							07-20191219-1	1
						CON 5 EBR	07-121919-1	1
					07-20191219-1		1	
					LOT 15	CON 3 EBR	07-20191219-1	1
						CON 4 EBR	07-121919-1	1
							07-20191219-1	1
						CON 5 EBR	07-121919-1	1
					07-20191219-1		1	
		LOT 16			07-121919-1	1		
		LOT 6	CON 6 EBR		8-121919-1	1		
		LOT 7			8-121919-1	1		
8	Updated boundary							

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
		9	Removed regs from aggregates properties	Aggregates Data	LOT 9	CON 12 EBR	9-062719-1	1	
		14	Removed regs from aggregates properties - realigned wetland	Aggregates Data - swoop2015	LOT 12	CON 3 WBR	14-062719-1	1	
					LOT 13	CON 2 WBR	14-062719-1	1	
						CON 3 WBR	14-062719-1	1	
			Updated boundary	swoop2015	LOT 4	CON 6 EBR	07-121919-1	2	
					LOT 5	CON 5 EBR	07-121919-1	1	
						CON 6 EBR	07-121919-1	1	
					LOT 6	CON 5 EBR	07-121919-1	1	
						CON 6 EBR	07-121919-1	1	
					LOT 7	CON 6 EBR	07-121919-1	1	
						LOT 23	CON 2 EBR	15-011718-3	1
					LOT 24	15-011718-3		1	
					Added watercourse	Added wetland	LOT 16	CON 4 EBR	16-011718-1
			CON 5 EBR					16-011718-1	1
			LOT 17				CON 5 EBR	16-011718-1	1
					Removed regs from aggregates properties		Aggregates Data	LOT 15	CON 2 EBR
		LOT 16	15-062719-1					1	
		Removed regs from aggregates properties - removed adjacent valley setback changed to meander belt	Aggregates Data - Slope areas from dem version 2		LOT 15		CON 1 EBR	15-062719-1	1
						CON 2 EBR	15-062719-1	1	
		15	Updated wetland boundary	swoop2015	LOT 14	CON 3 EBR	16-121919	1	
					LOT 15	CON 2 EBR	16-121919	1	
						CON 3 EBR	16-121919	1	
						CON 4 EBR	07-20191219-1	1	
							15-121919-1	1	
							16-121919	1	
						CON 5 EBR	07-20191219-1	1	
						CON 2 EBR	16-121919	1	
						CON 3 EBR	16-121919	1	
							07-20191219-1	1	

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
					LOT 16	CON 4 EBR	15-121919-1	1	
							16-121919	1	
							CON 5 EBR	07-20191219-1	1
						15-121919-1		1	
		16	Added wetland			LOT 17	CON 4 EBR	16-011718-2	1
							16-011718-2	1	
		23	Removed regs from aggregates properties	Aggregates Data	LOT 32	CON 1 EBR	23-062719-1	1	
					LOT 33	CON 2 EBR	23-062719-1	1	
						23-062719-1	1		
					LOT 10	CON 24	23-062719-1	1	
						23-062719-1	1		
						23-062719-1	1		
		LOT 13	23-062719-1	1					
		Removed regs from aggregates properties - removed meander belt - no watercourse	Aggregates Data - SWOOP2010	LOT 14	23-062719-1	1			
				LOT 10	23-062719-1	1			
				LOT 11	23-062719-1		1		
	24	Removed regs from aggregates properties	Aggregates Data	LOT 10	CON 24	24-062719-1	1		
					CON 25	24-062719-1	1		
					LOT 6	CON 24	24-062719-1	1	
				LOT 7	24-062719-1		1		
					24-062719-1		1		
Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))				Aggregates Data - Nrvs wet areas layer	LOT 8		CON 25	24-062719-1	1
Removed regs from aggregates properties - adjusted boundary		Aggregates Data - SWOOP2010	LOT 10		CON 25	24-062719-1	1		

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
			Removed regs from aggregates properties - adjusted wetland boundary				24-062719-1	1
		30	Removed regs from aggregates properties	Aggregates Data	LOT 22	CON 21	30-062719-1	1
						CON 23	30-062719-1	1
					LOT 48	CON C	30-062719-1	1
					LOT 49		30-062719-1	1
					TOWN PLOT OF OLIPHANT	(blank)	30-062719-1	1
			Removed regs from aggregates properties - adjusted watercourse	Aggregates Data - STEREO2010	LOT 22	CON 21	30-062719-1	1
							31-062719-1	1
					LOT 10	CON 22	31-062719-1	1
						CON 23	31-062719-1	1
					LOT 11	CON 21	31-062719-1	1
						CON 22	31-062719-1	1
					LOT 12	CON 23	31-062719-1	1
						CON 22	31-062719-1	1
					LOT 13	CON 21	31-062719-1	1
						CON 22	31-062719-1	1
					LOT 14	CON 23	31-062719-1	1
						CON 21	31-062719-1	1
					LOT 15	CON 22	31-062719-1	1
						CON 20	31-062719-1	1
					LOT 16	CON 23	31-062719-1	1
						CON 22	31-062719-1	1
					LOT 17	CON 23	31-062719-1	1
						CON 22	31-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
Town Of South Bruce Peninsula		31	Removed regs from aggregates properties - please add to wetland layer & regulate	Aggregates Data - Site inspection may 25, 2012	LOT 18	CON 22	31-062719-1	1
						CON 23	31-062719-1	1
					LOT 19	CON 22	31-062719-1	1
						CON 23	31-062719-1	1
					LOT 20	CON 21	31-062719-1	1
						CON 22	31-062719-1	1
						CON 23	31-062719-1	1
					LOT 21	CON 21	31-062719-1	1
						CON 22	31-062719-1	1
						CON 23	31-062719-1	1
					LOT 22	CON 21	31-062719-1	1
						CON 22	31-062719-1	1
						CON 23	31-062719-1	1
					LOT 42	CON C	31-062719-1	1
					LOT 43		31-062719-1	1
					LOT 44		31-062719-1	1
					LOT 45		31-062719-1	1
					LOT 46		31-062719-1	1
					LOT 47		31-062719-1	1
					LOT 48		31-062719-1	1
					LOT 49		31-062719-1	1
					LOT 57	CON 1 NCD	31-062719-1	1
						CON 2 NCD	31-062719-1	1
					LOT 58	CON 1 NCD	31-062719-1	1
						CON 2 NCD	31-062719-1	1
					TOWN PLOT OF OLIPHA NT	(blank)	31-062719-1	1
					LOT 10	CON 21	32-062719-1	1
						CON 22	32-062719-1	1
						CON 23	32-062719-1	1
					LOT 6	CON 22	32-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		32	Removed regs from aggregates properties	Aggregates Data	LOT 6	CON 23	32-062719-1	1
					LOT 7	CON 22	32-062719-1	1
						CON 23	32-062719-1	1
					LOT 8	CON 21	32-062719-1	1
						CON 22	32-062719-1	1
					LOT 9	CON 21	32-062719-1	1
						CON 22	32-062719-1	1
		38	Added setback for 3 to 1 stable slope setback	flood map	MILL LOT	CON D	38-141119-1	1
		39	Removed regs from aggregates properties	Aggregates Data	LOT 18	CON 14	39-062719-1	1
					LOT 19	CON 13	39-062719-1	1
						CON 14	39-062719-1	1
					LOT 20		39-062719-1	1
		LOT 1			CON 16	40-062719-1	1	
					CON 17	40-062719-1	1	
		LOT 2			CON 16	40-062719-1	1	
					CON 17	40-062719-1	1	
		LOT 3				40-062719-1	1	
					LOT 36	CON 1 NCD	40-062719-1	1
		CON 1 SCD				40-062719-1	1	
		LOT 37			CON 1 NCD	40-062719-1	1	
					CON 1 SCD	40-062719-1	1	
		LOT 38			CON 1 NCD	40-062719-1	1	
					CON 1 SCD	40-062719-1	1	
					CON 2 NCD	40-062719-1	1	
		LOT 39			CON 1 NCD	40-062719-1	1	
					CON 1 SCD	40-062719-1	1	
					CON 2 NCD	40-062719-1	1	
		40			Removed regs from aggregates properties - add watercourse	Aggregates Data - 91 air rectified	LOT 1	CON 17
			LOT 2	40-062719-1			1	
			LOT 3	40-062719-1			1	
						LOT 38		40-062719-1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
	Amabel Township		Removed regs from aggregates properties - added watercourse	Aggregates Data - SWOOP2010 Photography	LOT 39	CON 2 NCD	40-062719-1	1	
			Removed regs from aggregates properties - altered watercourse	Aggregates Data - SWOOP2010 Photography & 1991 (line 35 photo 540)	LOT 1	CON 16	40-062719-1	1	
						CON 17	40-062719-1	1	
					LOT 2	CON 16	40-062719-1	1	
					LOT 41	CON 2 NCD	40-062719-1	1	
			Removed regs from aggregates properties - extended wet area	Aggregates Data - SWOOP2010	LOT 3	CON 17	40-062719-1	1	
					LOT 4		40-062719-1	1	
			Removed regs from aggregates properties - extended wetland boundary		LOT 2	CON 16	40-062719-1	1	
			50	32.74875239	swoop2010	LOT 31	CON C	50-062719-1	1
						LOT 32		50-062719-1	1
				Removed regs from aggregates properties	Aggregates Data	LOT 18	CON 8	50-062719-1	1
		LOT 19				50-062719-1		2	
						CON 9	50-062719-1	1	
		LOT 20				CON 8	50-062719-1	1	
		Removed regs from aggregates properties - deleted adjeacent watercourse (that ran across 41025400030440000000) (swale)		Aggregates Data - swoop2015		CON 9	50-062719-1	1	
					LOT 19		50-062719-1	1	
					LOT 20	CON 10	50-062719-1	1	
						CON 8	50-062719-1	1	
						CON 9	50-062719-1	1	
				Removed regs from aggregates properties	Aggregates Data	LOT 16	CON 3	62-062719-1	1
							CON 4	62-062719-1	1
						LOT 17	CON 3	62-062719-1	1
							CON 7	62-062719-1	1
			CON 8				62-062719-1	1	
			LOT 18			CON 7	62-062719-1	1	
		CON 8		62-062719-1	2				

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
		62			LOT 19	CON 7	62-062719-1	1	
			CON 8	62-062719-1		2			
			Removed regs from aggregates properties - added missing wetland setback for online wetland	Aggregates Data - Wet areas/SWOOP2010 Photography	LOT 20	CON C	62-062719-1		1
			Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Nrvs wet areas layer	LOT 18	CON 7	62-062719-1		1
					LOT 19		62-062719-1		1
			Removed regs from aggregates properties - adjusted waterbody boundary and setback	Aggregates Data - SWOOP2010					62-062719-1
			Removed regs from aggregates properties - down stream portion of watercourse is virtual - removed reg	Aggregates Data - Stereo/3D/2010	LOT 20	CON C	62-062719-1		1
					LOT 21		62-062719-1		1
							LOT 10		62-062719-1
					CON D	62-062719-1			1
					LOT 11	CON C	62-062719-1		1
						CON D	62-062719-1		1
					LOT 12	CON C	62-062719-1		1
						CON D	62-062719-1		1
					LOT 13	CON C	62-062719-1		1
					LOT 14		62-062719-1		1
					LOT 15	CON 3	62-062719-1		1
						CON C	62-062719-1		1
					LOT 16	CON 3	62-062719-1		1
			CON 5	62-062719-1			1		

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
			Removed regs from aggregates properties - removed adjacent valley setback - not steep confined valley	Aggregates Data - Dem2	LOT 17	CON C	62-062719-1	1
						CON 5	62-062719-1	1
						CON C	62-062719-1	1
						CON D	62-062719-1	1
					LOT 18	CON 4	62-062719-1	1
						CON 5	62-062719-1	1
						CON 6	62-062719-1	1
						CON C	62-062719-1	1
						CON D	62-062719-1	1
					LOT 19	CON 4	62-062719-1	1
						CON 5	62-062719-1	1
						CON 6	62-062719-1	1
						CON C	62-062719-1	1
						CON D	62-062719-1	1
					LOT 20	CON 4	62-062719-1	1
						CON 5	62-062719-1	1
						CON 6	62-062719-1	1
						CON 7	62-062719-1	1
						CON C	62-062719-1	1
						CON D	62-062719-1	1
					LOT 21	CON C	62-062719-1	1
						CON D	62-062719-1	1
					LOT 9		62-062719-1	1
			Removed regs from aggregates properties	Aggregates Data	LOT 1	CON 4	63-062719-1	3
					LOT 2	CON 3	63-062719-1	1
						CON 4	63-062719-1	2
					LOT 3	CON 3	63-062719-1	1
						CON 6	63-062719-1	1
					LOT 4	CON 3	63-062719-1	1
						CON 6	63-062719-1	1
					LOT 5		63-062719-1	1
					LOT 6		63-062719-1	1
					LOT 7	CON 7	63-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
		63			LOT 7	CON 8	63-062719-1	1	
					LOT 8	CON 7	63-062719-1	1	
						CON 8	63-062719-1	1	
					LOT 9	CON 7	63-062719-1	1	
			Removed regs from aggregates properties - adjusted valley setback	Aggregates Data - Dem2	LOT 2	CON 6	63-062719-1	1	
					LOT 3		63-062719-1	1	
					LOT 4		63-062719-1	1	
					LOT 5		63-062719-1	1	
			Removed regs from aggregates properties - changed wetland boundary	Aggregates Data - SWOOP2010	LOT 1	CON 4	63-062719-1	1	
					LOT 5	CON 3	63-062719-1	1	
			Removed regs from aggregates properties - realigned watercourse						
			Removed regs from aggregates properties - removed adjacent valley setback - not steep confined valley	Aggregates Data - Dem2	LOT 4	CON 6	63-062719-1	1	
					LOT 5		63-062719-1	1	
		77		Removed regs from aggregates properties	Aggregates Data	LOT 10	CON 1	77-062719-1	1
							CON 2	77-062719-1	1
						LOT 11	CON 1	77-062719-1	1
						LOT 12		77-062719-1	1
						LOT 2		77-062719-1	1
						LOT 3	CON A	77-062719-1	1
							CON 1	77-062719-1	1
						LOT 4	CON A	77-062719-1	1
							CON 1	77-062719-1	1
						CON A	77-062719-1	1	
						LOT 6	CON 1	77-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		77			LOT 7	CON 1	77-062719-1	1
						CON 2	77-062719-1	2
					LOT 8	CON 3	77-062719-1	3
						CON 3	77-062719-1	1
					LOT 9	CON 1	77-062719-1	1
						CON 2	77-062719-1	1
						CON 3	77-062719-1	1
			Removed regs from aggregates properties - added watercourse	Aggregates Data - swoop2015	LOT 3	CON 2	77-062719-1	1
						CON 3	77-062719-1	1
Town Of South Bruce Peninsula Total								314
					LOT 1	CON 1 NETSR	116-062719-1	1
						CON 2 NETSR	116-062719-1	1
						CON 3 NETSR	116-062719-1	1
					LOT 10		116-062719-1	1
					LOT 11		116-062719-1	1
					LOT 15		116-062719-1	1
					LOT 16		116-062719-1	1
					LOT 17	CON 3 EGR	116-062719-1	1
					LOT 18		116-062719-1	1
					LOT 19		116-062719-1	1
					LOT 2	CON 2 NETSR	116-062719-1	1
						CON 3 NETSR	116-062719-1	1
					LOT 20	CON 3 EGR	116-062719-1	1
					LOT 3	CON 2 NETSR	116-062719-1	1
						CON 3 NETSR	116-062719-1	1
					LOT 4	CON 2 NETSR	116-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		116	Removed regs from aggregates properties	Aggregates Data	LOT 4	CON 3 NETSR	116-062719-1	1
					LOT 5	CON 2 NETSR	116-062719-1	1
						CON 3 NETSR	116-062719-1	1
						CON 5	116-062719-1	1
					LOT 6	CON 2 NETSR	116-062719-1	1
						CON 3 NETSR	116-062719-1	1
						CON 4	116-062719-1	1
						CON 4 NETSR	116-062719-1	1
						CON 5	116-062719-1	1
					LOT 7	CON 2 NETSR	116-062719-1	1
						CON 3 NETSR	116-062719-1	1
						CON 4 NETSR	116-062719-1	1
					LOT 8	CON 3 NETSR	116-062719-1	1
						CON 4 NETSR	116-062719-1	1
					LOT 9	CON 3 NETSR	116-062719-1	1
						CON 4 NETSR	116-062719-1	1
					LOT A	CON 4	116-062719-1	1
					LOT 10	CON 10	118-062719-1	1
						CON 11	118-062719-1	1
						CON 9	118-062719-1	1
					LOT 11	CON 10	118-062719-1	1
						CON 11	118-062719-1	1
						CON 9	118-062719-1	1
					LOT 8	CON 10	118-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Holland Township	118			LOT 9	CON 10	118-062719-1	1
						CON 11	118-062719-1	1
						CON 9	118-062719-1	1
			Removed regs from aggregates properties - add wetland <2ha	Aggregates Data - Site insp/SWOOP2010 Photography	LOT 7	CON 11	118-062719-1	1
			Removed regs from aggregates properties - add wetlands & adjusted wetland boundary	Aggregates Data - SWOOP2010/site visit	LOT 6		118-062719-1	1
					LOT 7		118-062719-1	1
					LOT 8	CON 12	118-062719-1	1
						CON 11	118-062719-1	1
					LOT 1	CON 1 NETSR	131-062719-1	1
						CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
					LOT 10	CON 1 NETSR	131-062719-1	1
						CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
						CON 3 NETSR	131-062719-1	1
					LOT 11	CON 1 SWTSR	131-062719-1	1
						CON 2 SWTSR	131-062719-1	1
						CON 3 NETSR	131-062719-1	2
					LOT 12	CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
						CON 3 NETSR	131-062719-1	3

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
Township Of Chatsworth		131	Removed regs from aggregates properties	Aggregates Data	LOT 13	CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
						CON 3 NETSR	131-062719-1	3
					LOT 14	CON 2 NETSR	131-062719-1	1
						CON 3 NETSR	131-062719-1	1
					LOT 2	CON 1 NETSR	131-062719-1	1
						CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
					LOT 20	CON 3 EGR	131-062719-1	1
					LOT 23	CON 2 EGR	131-062719-1	1
					LOT 24		131-062719-1	1
					LOT 25		131-062719-1	1
					LOT 26		131-062719-1	1
					LOT 27		131-062719-1	1
					LOT 28		131-062719-1	1
					LOT 3	CON 1 NETSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
					LOT 4	CON 1 NETSR	131-062719-1	1
						CON 2	131-062719-1	1
					LOT 5	NETSR	131-062719-1	2
					LOT 6	CON 1 NETSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
						CON 1 NETSR	131-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
					LOT 7	CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
					LOT 8	CON 1 NETSR	131-062719-1	1
						CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
					LOT 9	CON 1 NETSR	131-062719-1	1
						CON 1 SWTSR	131-062719-1	1
						CON 2 NETSR	131-062719-1	1
						CON 3 NETSR	131-062719-1	1
		132			LOT 10	CON 8	132-062719-1	1
						CON 9	132-062719-1	1
					LOT 11	CON 3 NETSR	132-062719-1	1
						CON 8	132-062719-1	1
					LOT 12	CON 3 NETSR	132-062719-1	2
					LOT 13		132-062719-1	2
					LOT 14		132-062719-1	1
					LOT 25	CON 4 NETSR	132-062719-1	1
					LOT 26		132-062719-1	1
			Removed regs from aggregates properties - added psw outside watershed	Aggregates Data - Evaluated wetlands	LOT 11	CON 8	132-062719-1	1
					LOT 12		132-062719-1	1
		133	Removed regs from aggregates properties	Aggregates Data	LOT 10	CON 9	133-062719-1	1
						CON 7	113-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Sullivan Township	113	Removed regs from aggregates properties - realigned watercourse	Aggregates Data - SWOOP2010	LOT 1	CON 8	113-062719-1	1
		114	Removed regs from aggregates properties	Aggregates Data		CON 2 WGR	114-062719-1	1
						CON 3 WGR	114-062719-1	1
					LOT 2	CON 2 WGR	114-062719-1	1
						CON 3 WGR	114-062719-1	1
					LOT 3	CON 2 WGR	114-062719-1	1
						CON 3 WGR	114-062719-1	1
					LOT 4	CON 3 WGR	114-062719-1	1
		129	Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Site inspection september 30, 2011	LOT M	CON 4	129-062719-1	1
			Removed regs from aggregates properties - added wetlands	Aggregates Data - SWOOP2010	LOT 15	CON 5	129-062719-1	1
					LOT 16	CON 6	129-062719-1	1
						CON 6	129-062719-1	1
		130	Removed regs from aggregates properties	Aggregates Data	LOT 14	CON 3	130-062719-1	1
					LOT 15	CON 4	130-062719-1	1
						CON 3	130-062719-1	1
						CON 4	130-062719-1	1
			Removed regs from aggregates properties - please add to watercourse layer & regulate	Aggregates Data - Site inspection september 30, 2011	LOT M	CON 3	130-062719-1	1
					LOT 14	CON 4	130-062719-1	1
							130-062719-1	1
							LOT M	130-062719-1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
			Removed regs from aggregates properties - please add to wetland layer & regulate				130-062719-1	1	
		144	Removed regs from aggregates properties - removed adjacent vallye setback - not confined valley	Aggregates Data - 5m contours	LOT 12	CON 12	144-062719-1	1	
					LOT 13		144-062719-1	1	
					LOT 14		144-062719-1	1	
					LOT 15		144-062719-1	1	
		147	Removed regs from aggregates properties	Aggregates Data	LOT 16	CON 3	147-062719-1	1	
						CON 4	147-062719-1	1	
Township Of Chatsworth Total								141	
Township Of Clearview	Nottawasa ga Township	140	Removed regs from aggregates properties	Aggregates Data	LOT 25	CON 12	140-062719-1	1	
		LOT 26			140-062719-1		1		
		LOT 27			140-062719-1		1		
		LOT 23			154-062719-1		1		
		LOT 24			154-062719-1		1		
		LOT 25			154-062719-1		1		
		154	Removed regs from aggregates properties - added spring fed watercourse	Aggregates Data - SWOOP2010 Photography/site	LOT 24		154-062719-1	1	
		LOT 25			154-062719-1				
								1	
Township Of Clearview Total								8	
					LOT 12	CON 7	79-10212019-1	1	
						CON 8	79-10212019-1	1	
					LOT 13	CON 6	79-10212019-1	1	
						CON 7	79-10212019-1	1	
						CON 8	79-10212019-1	1	
						CON 5	79-10212019-1	1	
					LOT 14	CON 6	79-10212019-1	1	
						CON 7	79-10212019-1	1	
						CON 8	79-10212019-1	1	
						CON 5	79-10212019-1	1	
					LOT 15	CON 6	79-10212019-1	1	

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
		79	Realigned in stereo	Stereo2010	LOT 15	CON 7	79-10212019-1	1	
						CON 8	79-10212019-1	1	
					LOT 16	CON 5	79-10212019-1	1	
						CON 6	79-10212019-1	1	
						CON 7	79-10212019-1	1	
						CON 8	79-10212019-1	1	
					LOT 17	CON 5	79-10212019-1	1	
						CON 6	79-10212019-1	1	
						CON 7	79-10212019-1	1	
						CON 8	79-10212019-1	1	
					LOT 5	HMS	79-10212019-1	1	
					LOT 6		79-10212019-1	1	
					LOT 7		79-10212019-1	1	
					LOT 8		79-10212019-1	1	
					LOT 9		79-10212019-1	1	
					LOT 10		79-062719-1	1	
		Removed regs from aggregates properties - corrected wetland reg (should've been no reg hole at lot 14 con 7)	Aggregates Data - psw dataset	LOT 16	CON 7	79-062719-1	1		
					CON 8	79-062719-1	1		
				LOT 17	CON 7	79-062719-1	1		
					CON 8	79-062719-1	1		
				LOT 7	HMS	79-062719-1	1		
				LOT 8		79-062719-1	1		
				LOT 9		79-062719-1	1		
		80	Added watercourse	swoop2015	LOT 8	EHMS	80-061819-1	1	
		95	Removed regs from aggregates properties	Aggregates Data	LOT 13	CON 12	95-062719-1	1	
					LOT 14		95-062719-1	1	
					LOT 5	CON 11	95-062719-1	1	
					LOT 6		95-062719-1	1	
			Added setback on flood prone area to match hazard	site specific hazard mapping	LOT 10	CON 7	96-070719-1	1	
			Reg w/out add. 15m	swoop / 1991 / site insp			96-070419-1	1	
						LOT 6	CON 6	96-062719-1	1
							CON 7	96-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Derby	96	Removed regs from aggregates properties	Aggregates Data	LOT 7	CON 8	96-062719-1	1
						CON 6	96-062719-1	1
						CON 7	96-062719-1	1
						CON 8	96-062719-1	1
					LOT 8	CON 6	96-062719-1	1
						CON 7	96-062719-1	1
						CON 8	96-062719-1	2
					LOT 9	CON 7	96-062719-1	1
						CON 8	96-062719-1	1
			Removed regs from aggregates properties - add watercourse & associated meander belt	Aggregates Data - SWOOP2010 Photography/culvert gps	LOT 4	CON 6	96-062719-1	1
			Removed regs from aggregates properties - add wetlands & adjusted wetland boundary	Aggregates Data - Site visit (aw)/SWOOP2010 Photography	LOT 9	CON 9	96-062719-1	1
			Updated to match hazard with setback	Stereo 2010	LOT 10	CON 6	96-040719-1	1
						CON 7	96-040719-1	1
					LOT 9	CON 6	96-040719-1	1
			Added wetland	SWOOP 2010	LOT 5	CON 3	97-061819-1	1
						CON 4	97-061819-1	1
					LOT 6	CON 3	97-061819-1	1
						CON 4	97-061819-1	1
				swoop2010	LOT 5	CON 3	97-061819-1	1
			Removed regs from aggregates properties	Aggregates Data	LOT 2	CON 2	97-062719-1	1
						CON 3	97-062719-1	1
					LOT 3	CON 2	97-062719-1	1
						CON 3	97-062719-1	2
						CON 4	97-062719-1	1
						CON 5	97-062719-1	1
					LOT 4	CON 2	97-062719-1	1
						CON 3	97-062719-1	2
						CON 4	97-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Township	97				CON 5	97-062719-1	1
					LOT 5	CON 2	97-062719-1	1
					LOT 9	CON 3	97-062719-1	1
			Removed regs from aggregates properties - added mb for watercourse	Aggregates Data - swoop2015/3d	LOT 4		97-062719-1	1
			Removed regs from aggregates properties - added wet area setback (wet area now online due to extended watercourse)	Aggregates Data - SWOOP2010 Photography & wet areas	LOT 5	CON 6	97-062719-1	1
			Removed regs from aggregates properties - added wetland	Aggregates Data - SWOOP 2010	LOT 4	CON 3	97-062719-1	1
					LOT 5		97-062719-1	1
			Removed regs from aggregates properties - adjusted treed swamp boundary	Aggregates Data - SWOOP2010/site visit		CON 4	97-062719-1	1
					LOT 6	CON 5	97-062719-1	1
					LOT 7		97-062719-1	1
					LOT 8	CON 6	97-062719-1	1
						CON 5	97-062719-1	1
					LOT 9	CON 6	97-062719-1	1
						CON 5	97-062719-1	1
			Removed regs from aggregates properties - extend obm watercourse	Aggregates Data - SWOOP2010 Photography & drainage maps	LOT 5	CON 6	97-062719-1	1
							97-062719-1	1
			Removed regs from aggregates properties - swoop 2010	Aggregates Data - SWOOP2010	LOT 6	CON 3	97-062719-1	1
			Removed regs from aggregates properties - add watercourse = regs	Aggregates Data - SWOOP2010 Photography & culvert gps	LOT 4	CON 11	112-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		112	Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Nrvs wet areas layer	LOT 3	CON 12	112-062719-1	1
			Removed regs from aggregates properties - removed adjacent wet pockets (no longer there)	Aggregates Data - SWOOP2010	LOT 2	CON 10	112-062719-1	1
						CON 11	112-062719-1	1
						CON 12	112-062719-1	1
					LOT 3	CON 10	112-062719-1	1
						CON 11	112-062719-1	1
						CON 12	112-062719-1	1
					LOT 4	CON 10	112-062719-1	1
						CON 11	112-062719-1	1
						CON 12	112-062719-1	1
					LOT 5	CON 10	112-062719-1	1
						CON 11	112-062719-1	1
		113	Removed regs from aggregates properties	Aggregates Data	LOT 2	CON 7	113-062719-1	1
					LOT 3	CON 9	113-062719-1	1
			Removed regs from aggregates properties - add setback for new wetland	Aggregates Data - SWOOP2010 Photography & air photos	LOT 2	CON 7	113-062719-1	1
			Removed regs from aggregates properties - add wetland & setback	Aggregates Data - SWOOP2010 Photography	LOT 1	CON 6	113-062719-1	1
						CON 7	113-062719-1	1
			CON 8	113-062719-1		1		
			Removed regs from aggregates properties - realigned watercourse	Aggregates Data - SWOOP2010	LOT 2	CON 7	113-062719-1	1
						CON 8	113-062719-1	1
			Removed regs from aggregates properties - removed adjacent valley setback - not steep confined valley	Aggregates Data - Dem2	LOT 3	CON 10	113-062719-1	1
						CON 9	113-062719-1	1
					LOT 4	CON 10	113-062719-1	1
					CON 9	113-062719-1	1	

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		114	Removed regs from aggregates properties	Aggregates Data	LOT 1	CON 2	114-062719-1	1
						CON 3	114-062719-1	1
					LOT 2	CON 2	114-062719-1	1
						CON 3	114-062719-1	1
			Removed regs from aggregates properties - adjusted waterbodies	Aggregates Data - SWOOP2010 Photography	LOT 1	CON 6	114-062719-1	1
			Removed regs from aggregates properties - culvert =gps, extend watercourse upstream	Aggregates Data - Gps & SWOOP2010 Photography	LOT 3	CON 5	114-062719-1	1
						CON 6	114-062719-1	1
								1
		25	Adjusted regs to 15m plus hazard	Based on the 2019 Hazard Boundary	LOT 10	JONES RANGE	25-180919-19	1
					LOT 11		25-180919-19	1
					LOT 12	CON 25	25-180919-19	1
		26	Added wetland	swoop2015	LOT 18	CON 24	26-062419-1	1
					LOT 19		26-062419-1	1
		40	Added watercourse	2015 Air Photo	LOT 1	CON 16	40-061719-1	1
						CON 17	40-061719-1	1
					LOT 2	CON 16	40-061719-1	1
						CON 17	40-061719-1	1
			Removed regs from aggregates properties	Aggregates Data	LOT 1	CON 16	40-062719-1	1
						CON 17	40-062719-1	1
					LOT 2	CON 15	40-062719-1	1
						CON 16	40-062719-1	1
						CON 17	40-062719-1	1
					LOT 3	CON 16	40-062719-1	1
						CON 17	40-062719-1	1
					LOT 36	CON 1 NCD	40-062719-1	1
						CON 2 NCD	40-062719-1	1
					LOT 37		40-062719-1	1
					LOT 38		40-062719-1	1
						CON 16	40-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
Township Of Georgian Bluffs		41	Removed regs from aggregates properties - altered watercourse	Aggregates Data - SWOOP2010 Photography & 1991 (line 35 photo 540)	LOT 1	CON 17	40-062719-1	1
			Added local wetland feature, needs truthing	SWOOP 2010, 1991	LOT 8	CON 14	41-061219-1	1
						CON 15	41-061219-1	1
					LOT 9	CON 14	41-061219-1	1
						CON 15	41-061219-1	1
			Removed regs from aggregates properties	Aggregates Data	LOT 8	CON 18	41-062719-1	1
			Removed regs from aggregates properties - add setback for online wetland	Aggregates Data - Site inspection/SWOOP2010 Photography	LOT 7	CON 17	41-062719-1	1
						CON 18	41-062719-1	1
			Removed regs from aggregates properties - add watercourse & associated meander belt/ outlet needs truthing	Aggregates Data - Site insp/SWOOP2010 Photography	LOT 6	CON 17	41-062719-1	1
						CON 18	41-062719-1	1
					LOT 7	CON 17	41-062719-1	1
						CON 18	41-062719-1	1
			Removed regs from aggregates properties - updated online quarry pond	Aggregates Data - SWOOP2010	LOT 8	CON 17	41-062719-1	1
		42	Added wet area with no area of interference (small (<2 ha))	Nrvis wet areas layer	LOT 22	CON 15	42-061219-1	1
			Adjusted setback slightly	SWOOP2010 Photography	LOT 20	CON 14	42-061719-3	1
							42-061719-3	1
					LOT 21	CON 15	42-061719-3	1
						CON 14	42-061719-3	1
					LOT 22	CON 15	42-061719-3	1
						CON 14	42-061719-3	1
					LOT 23	CON 14	42-061719-3	1
						CON 15	42-061719-3	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		43	Removed regs from aggregates properties	Aggregates Data	LOT 36	CON 17	43-062719-1	1
		51	Added flood prone area	P19127	LOT 1	CON 8	51-150719-1	1
					LOT 2		51-150719-1	1
			Added flood prone portion	Hazard	LOT 31	CON 2 SCD	51-052719-1	1
					LOT 32		51-052719-1	1
				swoop2010	LOT 31		51-052719-1	1
		53	Removed regs from aggregates properties - realigned psu in stereo - only added additional 30m for adjusted areas pending mnrf approval of psu updates	Aggregates Data - STEREO (SWOOP2010)	LOT 10	CON 1 NCD	53-062719-1	1
					LOT 11	CON 2 NCD	53-062719-1	1
					LOT 12		53-062719-1	1
					LOT 13	CON 1 NCD	53-062719-1	1
						CON 1 SCD	53-062719-1	1
						CON 2 NCD	53-062719-1	1
					LOT 14	CON 1 NCD	53-062719-1	1
						CON 1 SCD	53-062719-1	1
						CON 2 NCD	53-062719-1	1
					LOT 15	CON 1 NCD	53-062719-1	1
						CON 1 SCD	53-062719-1	1
						CON 2 NCD	53-062719-1	1
					LOT 16	CON 1 NCD	53-062719-1	1
						CON 1 SCD	53-062719-1	1
						CON 2 NCD	53-062719-1	1
					LOT 17	CON 1 NCD	53-062719-1	1
					LOT 21	CON 10	53-062719-1	1
					LOT 22		53-062719-1	1
					LOT 23	CON 11	53-062719-1	1
						CON 9	53-062719-1	1
						CON 10	53-062719-1	1
					LOT 24	CON 11	53-062719-1	1
						CON 12	53-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
	Keppel Township					CON 13	53-062719-1	1
						CON 9	53-062719-1	1
					LOT 25	CON 10	53-062719-1	1
						CON 11	53-062719-1	1
						CON 12	53-062719-1	1
						CON 13	53-062719-1	1
						CON 9	53-062719-1	1
					LOT 26	CON 10	53-062719-1	1
						CON 11	53-062719-1	1
						CON 12	53-062719-1	1
						CON 13	53-062719-1	1
						CON 9	53-062719-1	1
					LOT 27	CON 13	53-062719-1	1
					LOT 7	CON 2 NCD	53-062719-1	1
					LOT 8		53-062719-1	1
					LOT 9	CON 1 NCD	53-062719-1	1
						CON 2 NCD	53-062719-1	1
		54	Removed regs from aggregates properties - added wet area with no area of interference (small (<2 ha))	Aggregates Data - Nrvs wet areas layer	LOT 26	CON 10	54-062719-1	1
					LOT 27		54-062719-1	1
			Removed regs from aggregates properties - removed portion of wetland in quarry, no longer there	Aggregates Data - SWOOP2010	LOT 28		54-062719-1	1
					LOT 29		54-062719-1	1
		63	Removed regs from aggregates properties	Aggregates Data		CON 4	63-062719-1	1
						CON 5	63-062719-1	1
						CON 3	63-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
			Removed regs from aggregates properties - changed wetland boundary	Aggregates Data - SWOOP2010	LOT 1	CON 4	63-062719-1	1
			Removed regs from aggregates properties	Aggregates Data		CON 5	64-062719-1	1
			Removed regs from aggregates properties - changed wetland boundary				64-062719-1	1
		64	Removed regs from aggregates properties - realigned watercourse	Aggregates Data - SWOOP2010	LOT 2	CON 4	64-062719-1	1
			Removed regs from aggregates properties - realigned wetland		LOT 3	CON 7	64-062719-1	1
					LOT 2		64-062719-1	1
			Removed regs from aggregates properties	Aggregates Data	LOT 15	CON 5	65-062719-1	1
					LOT 16		65-062719-1	1
					LOT 17	CON 4	65-062719-1	1
						CON 5	65-062719-1	3
					LOT 18	CON 4	65-062719-1	2
					LOT 10	CON 1 NCD	65-062719-1	1
						CON 1 SCD	65-062719-1	1
					LOT 16	CON B	65-062719-1	1
					LOT 17	CON 4	65-062719-1	1
						CON B	65-062719-1	1
					LOT 18	CON 4	65-062719-1	1
						CON B	65-062719-1	1
					LOT 19	CON 4	65-062719-1	1
						CON B	65-062719-1	1
					LOT 20		65-062719-1	1
					LOT 21	CON 4	65-062719-1	1
					LOT 4	CON 1 NCD	65-062719-1	1
						CON 1 SCD	65-062719-1	1

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
		65	Removed regs from aggregates properties - add wetlands & adjusted wetland boundary	Aggregates Data - Site visit (aw)/SWOOP2010 Photography	LOT 5	CON 1 NCD	65-062719-1	1
						CON 1 SCD	65-062719-1	1
						CON 2 SCD	65-062719-1	1
					LOT 6	CON 1 NCD	65-062719-1	1
						CON 1 SCD	65-062719-1	1
						CON 2 NCD	65-062719-1	1
						CON 2 SCD	65-062719-1	1
					LOT 7	CON 1 NCD	65-062719-1	1
						CON 1 SCD	65-062719-1	1
						CON 2 NCD	65-062719-1	1
						CON 2 SCD	65-062719-1	1
					LOT 8	CON 1 NCD	65-062719-1	1
						CON 1 SCD	65-062719-1	1
			CON 2 NCD	65-062719-1		1		
			LOT 9	CON 1 NCD	65-062719-1	1		
				CON 1 SCD	65-062719-1	1		
				CON 2 NCD	65-062719-1	1		
			Removed regs from aggregates properties - changed watercourse & removed valley setback	Aggregates Data - Site inspection january 12, 2012	LOT 17	CON 4	65-062719-1	1
					LOT 18		65-062719-1	
			Removed regs from aggregates properties - gps=constructed channel = watercourse	Aggregates Data - Gps & shape file	LOT 15	CON 5	65-062719-1	1
LOT 16	65-062719-1							
	Removed regs from aggregates properties - re-align watercourse & meander belt	Aggregates Data - SWOOP2010 Photography	CON 4	65-062719-1	1			
Removed regs from aggregates properties - re-align watercourse & meander belt		LOT 14		65-062719-1		1		
			CON 5	65-062719-1	1			

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total	
			Removed regs from aggregates properties - realigned psd - only added 30m setback pending mnrf approval	Aggregates Data - swoop20105/stereo	LOT 15	CON 4	65-062719-1	1	
						CON 5	65-062719-1	1	
					LOT 16	CON 4	65-062719-1	1	
		79	Realigned in stereo	Stereo2010	LOT 15	CON A	79-10212019-1	1	
					LOT 16		79-10212019-1	1	
					LOT 17	CON B	79-10212019-1	1	
						CON A	79-10212019-1	1	
					LOT 18	CON B	79-10212019-1	1	
						CON A	79-10212019-1	1	
					LOT 19	CON A	79-10212019-1	1	
					LOT 20		79-10212019-1	1	
					LOT 21		79-10212019-1	1	
					LOT 22		79-10212019-1	1	
					LOT 23		79-10212019-1	1	
					LOT 15		79-062719-1	1	
					Aggregates Data - psd dataset	CON B	79-062719-1	1	
						LOT 16	CON A	79-062719-1	1
						CON B	79-062719-1	1	
		LOT 18	CON A	79-062719-1		1			
		LOT 19	79-062719-1	1					
		43	Removed regs from aggregates properties	Aggregates Data	LOT 36	CON 1	43-062719-1	1	
					LOT 37		43-062719-1	1	
					CON 2	43-062719-1	1		
						44	Adjusted 100 year to match topo survey - not dynamic beach	planfile 19112	LOT 40
		LOT 41	44-100119-1	1					
	LOT 42	44-100119-1	1						
	Adjusted in stereo 3:1+30	stereo	LOT 27	44-090919-1	1				
	Removed regs from aggregates properties	Aggregates Data	LOT 35	CON 2	44-062719-1		1		
			LOT 36		44-062719-1		2		
			CON 3	44-062719-1	1				
			CON 2	44-062719-1	2				

Municipality	TOWNSHIP	MAP#	UPDATE INFO	UPDATE SOURCE	LOT#	CON#	REVISION#	Total
			properties		LOT 37	CON 3	44-062719-1	1
					LOT 38	CON 2	44-062719-1	2
							44-062719-1	1
	Sarawak Township		Updated shoreline erosion in stere 3:1+15	stereo	LOT 27	CON 3	44-090919-2	1
					LOT 18		54-062719-1	1
					LOT 19	CON 2	54-062719-1	2
					LOT 20		54-062719-1	2
		54	Removed regs from aggregates properties	Aggregates Data	LOT 21	CON 1	54-062719-1	1
						CON 2	54-062719-1	1
					LOT 22	CON 1	54-062719-1	1
						CON 2	54-062719-1	1
					LOT 23	CON 1	54-062719-1	1
							54-062719-1	1
					LOT 24	CON 2	54-062719-1	1
		66	Added flood prone	3D, site inspection P13215	TOWN PLOT OF BROOK E	(blank)	66-061819-1	1
Township Of Georgian Bluffs Total								327
Grand Total								1224
Definitions								
DEM2 - Second version of Provincial digital elevation model								
SWOOP - Southwestern Ontario Orthophotography project, 2010 refers to those in 2010 and 2015 refers to those flown in 2015								
3D or Stereo - Use of stereo software and imagery to gain an improved perspective and topography in desktop software								
Stereo2010 - Use of the stereo software using stereo modles flow in 2010								
PSW - Provincially Significant Weltand								
NRVIS - Provincial Natural Values Resource Information System Data								
1991, 1978, 1954 - Refers to air photos taken in those years								

Appendix B - Previously Approved Regulations Mapping Update Procedure



STAFF REPORT

Report To: Board of Directors

Report From: Andrew Sorensen, Planning Coordinator & Gloria Dangerfield,
GIS/Database Coordinator

Meeting Date: September 13th, 2017

Report Code: 9-2017

Subject: Request for approval of the updates procedure for the Ontario
Regulation 151/06 mapping

Recommendation:

WHEREAS it is the text of the Regulation that determines the actual regulated area;

AND FURTHER, WHEREAS Grey Sauble creates and updates mapping as a screening tool for planning staff when dealing with permits for Ontario Regulation 151/06;

AND FURTHER, WHEREAS the mapping is continuously updated & checked to reflect the most accurate conditions on the ground using current sources & technology;

THAT the Grey Sauble Conservation Authority Board of Directors approve the procedure undertaken by Grey Sauble Staff for updating Ontario Regulation 151/06 mapping, including that a list of changes and example maps be provided to the Board of Directors once a year for their information.

Background:

Section 2.1 of the text of Ontario Regulation 151/06 states all the areas where development is to be regulated by Grey Sauble Conservation (GSC) through the issuance of permits. These physical features and their associated regulated areas are:

- Watercourses
 - Meander Belt (10 times the full bank width + 15m allowance on either side)
 - Confined Valley (long term stable slope from the toe of slope + 15m setback for toe erosion & additional 15m allowance)
- Flood Prone Areas
 - Engineered Flood Plain Areas
 - Estimated Flood Prone Areas

- Great Lakes Shoreline
 - Dynamic Beach + a 15m setback
 - Wave Uprush (15m from the 100 year flood line plus 15m allowance)
 - Erosion Areas (3:1 slope setback + 15m toe erosions & 15m additional allowance, or top of bank + 15m toe erosions & 15m additional allowance)
 - The Nipissing Ridge and Algonquin Ridge which are post glacial hazard slopes associated with the great lakes shoreline (3:1 + 15m additional allowance or top of bank + 15m additional allowance)
- Wetlands/Waterbodies
 - Provincially Significant (120m area of interference)
 - Locally Significant (30m area of interference)
 - All other wetlands/waterbodies (30m area of interference if greater than 2 Ha, no setback otherwise)

Section 2.2 of the text of Ontario Regulation 151/06 states that All areas within the jurisdiction of the Authority that are described in subsection (1) are delineated as the “Regulation Limit” shown on a series of maps filed at the head office of the Authority under the map title “Ontario Regulation 97/04: Regulation for Development, Interference with Wetlands and Alterations to Shorelines and Watercourses”.

While GSC originally used the best mapping available to plot the regulated areas, the Ontario Basic Mapping (OBM), it was at a 1:10 000 scale in most areas, which meant it could be difficult to accurately locate points for detailed site decisions, and there were some inaccuracies.

Based on site visits with GPS units, as well as the use of new technologies such as:

- Newly created elevation information in combination with stereo viewing;
- 2006, 2010 and 2015 orthophotography; and
- Three-dimensional (3D) mapping software acquired through the Shell Canada grant in 2013,

GSC staff have continued to suggest and verify updates to the mapping so it accurately reflects the current physical features on the ground.

Staff have access to, and have been trained to use desktop Geographic Information System (GIS) software that displays base data “layers” as well as orthophotography. Using this software, they can edit ground features such as wetland boundaries and watercourses according to the most recent aerial photograph and can use the other photography as a reference. These same staff are also trained to use GPS units in the field and to upload the resulting information into GIS software so that it can be incorporated into the base data updates “layers”. This data is then checked by the GIS coordinator and appropriate setbacks, as noted above, are calculated and updated in the Regulations 151/06 “layer”.

Planning staff are also trained to use stereo/3D software to allow for viewing and capture of accurate elevation information. This allows for accurate updates to slope steepness and setbacks, as well as shoreline 100 year lines and flood prone areas. This system also allows for more accurate viewing and capture of wetlands and watercourses in stereo which is a large improvement to viewing using traditional air photos.

As the Ministry of Natural Resources and Forests has leadership on changes to provincially significant wetlands boundaries, staff also provide information to MNRF on recommended changes and incorporate any decisions from MNRF.

All changes follow the applicable technical mapping "Guidelines for Developing Schedules of Regulated Areas", October 2005.

This rigor has led to GSC staff developing some of the best and most detailed mapping available in the watershed. In addition to its use for regulatory permits, GSC uses it to provide comments under municipal MOUs for Natural Heritage and to provide input on behalf of the province on Natural Hazards.

As soon as a map is updated, staff use the newest version for discussions with the public, the screening of applications, and for updates to web mapping sites (such as GSC's own site, and the Grey and Bruce County sites).

For the past 10 years, staff have annually presented a summary of the past year's regulatory mapping changes to the board for approval.

Current Request:

Per discussion at a Board of Directors meeting, that staff investigate whether the Grey Sauble Board of Directors should approve the process of updating the regulation limit maps and receive mapping examples and a list of recent updates for information, as opposed to approving each change.

Analysis:

The regulated areas are based on the text of the regulation, and the mapping of these physical features is used to screen permit applications and provide changes. Improvements in the accuracy of mapping does not change the underlying geographic features, which are also checked in the field for most permits.

The Conservation Authorities Act and the GSC Regulation 151/06 do not require approval for updates in the screening mapping.

Board Directors are not well positioned to “approve” mapping changes, as they are not familiar in the field with each geographic feature, and it is not in line with their role to field-check changes.

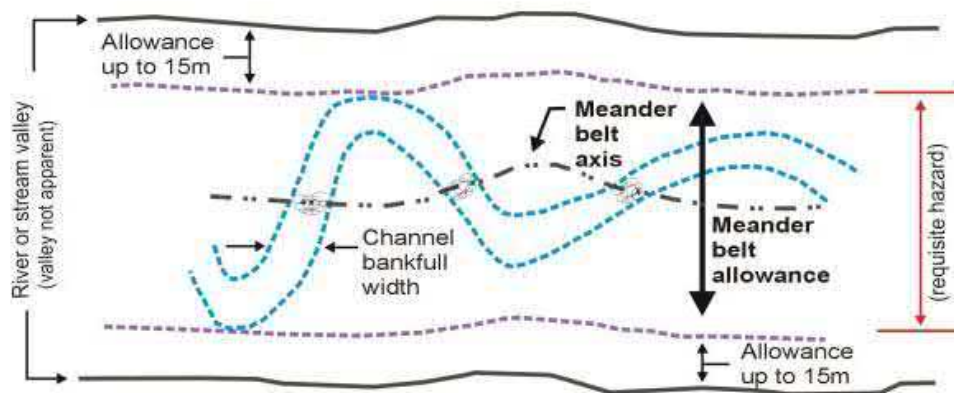
Example 1: Adjusted Watercourses

Orange represents the original watercourse “layer” and the blue is updated “layer”.



Example 1.1: Meander Belt Calculation

The meander belt allowance is 10 times the bank full width on either side from the axis of the watercourse, plus an additional 15m. In the absence of width information 1.5m is the default.



"Guidelines for Developing Schedules of Regulated Areas", October 2005

Example 1.2: Updated watercourses with applied meander belts (map also shows other regulated area features such as evaluated wetland 120m area of interference)



Financial/Budget Implications:

None

Communication Strategy:

Continuously updated map layers will continue to be provided to both Grey County and Bruce County and on the Grey Sauble Interactive Regulation Map viewer.

An annual listing of changes and examples will be provided to the Board of Directors for their information.

Consultation:

- CAO, Planning & GIS/Database Staff
- Other Conservation Authorities who do regular regulation mapping updates

STAFF REPORT

Report To: Board of Directors

Report From: Gloria Dangerfield, Manager of
Information Services

Meeting Date: June 24, 2020

Report Code: 18-2020

Subject: Information Management & Technology (IM/IT) Policy



Recommendation:

WHEREAS Grey Sauble Conservation Authority has a fully integrated, networked workplace, that requires guidelines for administrators and users to ensure the appropriate collection, use, storage, accessibility, privacy, security and integrity of its information;

AND FURTHER WHEREAS risks to the safety of the information assets and integrity of GSCA will be greatly reduced by the implementation of the Information Management & Technology Policy.

AND FURTHER WHEREAS this policy will bring the Information Management & Technology Department in line with the requirements of the Risk Management Guidelines, approved in 2018;

THAT the Grey Sauble Conservation Authority Board of Directors accept and endorse the Final Information Management & Technology Policy.

Strategic Initiative

This item indirectly relates to all GSCA's strategic initiatives in that its framework of information management and technology is one of the foundations of the work that GSCA undertakes. It helps to make available, manage, store, protect and analyze all the digital information that is used by all departments at GSCA and is therefore a key component of the information for all five goals of the strategic plan.

Background

The Information Management & Technology Department at Grey Sauble Conservation Authority (GSCA) provides Information Services to all the departments in the organization as well as to other associated individuals or groups that make use of GSCA resources. These Information Services have become a key part of the daily

functions of GSCA and have supported fundamental changes in the workplace over the last 20 years. Since the initial GSCA IT Policy was created in 2010, the amount of hardware and software applications entering the workplace, as well as connections and file transfer to the outside via the GSCA network, has increased dramatically. This has profoundly increased the potential risk and liability that must be monitored and controlled in order to safeguard information assets and operational integrity within the authority.

The integrated networked environment at GSCA has created the opportunity to share and access information and use resources in ways that were previously not possible. Inappropriate use of these resources, however, could expose GSCA to data loss or theft, physical equipment damage or loss, embarrassment and litigation. GSCA is committed to ensuring that information under its stewardship is appropriately collected, stored and accessed with regard for privacy rights, security and information integrity.

Current Proposal:

GSCA is proposing the Final Information Management & Technology Policy that will replace draft 2019 policy and the 2010 Information Technology Policy.

The purpose of the IM/IT policy is to guide and constrain users of the GSCA's Information Management & Technology (IM/IT) infrastructure. It seeks to balance the employee's ability to benefit fully from information technology with GSCA's need for a secure, consistent, cost-effective and robust IM/IT infrastructure. This policy will apply to all employees of GSCA as well as all agents, associates, board members, or others who connect to with GSCA information systems.

Financial/Budget Implications:

None

Communication Strategy:

None

Consultation:

Information Management & Technology Staff & Board of Directors. Coordinators will be circulated upon approval of the draft policy.

Date of Update of this Report: June 15, 2020



Grey Sauble Conservation Authority **Information Management & Technology (IM/IT) Policy**

Gloria Dangerfield/Les McKay

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BACKGROUND

The Information Services Department (IS) at Grey Sauble Conservation Authority (GSCA) provides Information Management & Technology to all the departments in the organization as well as to other associated individuals or groups that make use of GSCA resources. These Information Services have become a key part of the daily functions of GSCA and have supported fundamental changes in the workplace over the last 20 years. Since the initial GSCA IT Policy was created in 2010, the amount of hardware and software applications entering the workplace, as well as connections and file transfer to the outside via the GSCA network, has increased dramatically. This has profoundly increased the potential risk and liability that must be monitored and controlled in order to safeguard information assets and operational integrity within the authority.

The integrated networked environment at GSCA has created the opportunity to share and access information and use resources in ways that were previously not possible. Inappropriate use of these resources, however, could expose GSCA to data loss or theft, physical equipment damage or loss, embarrassment and litigation. GSCA is committed to ensuring that information under its stewardship is appropriately collected, stored and accessed with regard for privacy rights, security and information integrity.

GSCA's Information Management & Technology (IM/IT) resources, including but not limited to, computer systems, telecommunications and electronic media equipment, computer accounts, laptop computers and other mobile devices, printers, networks, software, facsimile machines, electronic mail, Internet browsing, telephone systems and voice mail, are provided to employees for business use. It is the responsibility of the users to see that these technologies are used in an efficient, ethical and lawful manner as per the policy outlined below.

PURPOSE

This policy guides and constrains users of the GSCA's Information Management & Technology (IM/IT) infrastructure. It seeks to balance the employee's ability to benefit fully from information technology with GSCA's need for a secure, consistent, cost-effective and robust IT infrastructure.

This policy also serves to align the policies of the Information Management & Technology Department with sections 5 & 6 of GSCA's Risk Management Guidelines.

SCOPE

This Policy applies to all employees of the Authority regardless of tenure or position. It applies to all agents, associates, board members, or others who connect to the GSCA information systems.

POLICY

Employees of the Grey Sauble Conservation Authority will follow guidelines and policies to enable reasonable and appropriate use of information systems, and to perform their jobs in accordance with all applicable laws, regulations and policies. The Grey Sauble Conservation Authority will periodically review and update these guidelines and policies. Employees who violate this policy will be subject to disciplinary action based on the severity of the violation.

This policy document is composed of four main sections addressing the core goals of the Policy: **Use & Acquisition of GSCA IM/IT Equipment, Security, Privacy, Data Integrity**. Additionally, each section may reference appendices providing detailed explanations and guidelines for key activities related to that section. In many instances a prescribed behaviour supports all three of the key areas of concern: security, privacy and data integrity.

In special circumstances, such as when the Pandemic Plan (see Appendix A8) is in place, remote access may be required for all staff. IM/IT staff will have specialized procedures in place for providing equipment and software and utilities to keep staff working from home. Under these circumstances these specialized procedures may supersede procedures defined in this policy.

SECTION 1 – USE & ACQUISITION OF GSCA IM/IT EQUIPMENT

The acceptable use of all the equipment that is purchased and managed by the Information Services (IS) Department at GSCA is guided by this policy. Further, the Information Services Department operates under the GSCA Procurement Policy and Asset Management Plan when acquiring new resources. It plans, on an annual basis, for the update and renewal of all Information Services hardware and software assets in the organization. If staff identify a need for any new hardware or software, they will make the request to their coordinator and, if approved, the coordinator will trigger the IS department procurement process. It is preferred that such requests are made prior to completing the budget process for the following year. It is however recognized that needs arise, for various reasons, throughout the year and Information Services staff will prioritize requests and budget items based on urgency of need and available budget amount.

Some examples of this type of equipment are all desktop computers, laptop computers, cell phones, tablets, GPS units and receivers, projectors, printers and peripherals or accessories associated with these devices.

Staff will ensure appropriate requests for use of mobile equipment takes place before using and/or taking hardware out of the office. Currently staff are to notify IM/IT staff verbally or by email to book the use of equipment, however, the process for booking will evolve to a client application like the current vehicle booking system. There may be exceptions to the booking process if a device is

specifically designated to an individual or department and they are excluded from booking that device daily as approved by the coordinators of that department and IM/IT staff.

Staff will use GSCA equipment for GSCA business only and treat **all** equipment in a manner that will not jeopardize its functionality or unreasonably reduce the length of its life cycle. Upon request and in special cases staff may be permitted to use this equipment for incidental personal use. They shall notify IM/IT staff of any issues with the equipment or their associated accessories or peripheral devices immediately through a verbal request or via email. If a device is lost or stolen, staff will notify the IS department staff immediately. GSCA recognizes that malfunctions, and mistakes occur and accepts certain, small losses or required fixes. All staff should, however, treat GSCA resources with respect in order to reduce such losses and maximize life cycles.

SECTION 2 – SECURITY

Security is of utmost concern and the degree to which it is maintained has a direct impact on the GSCA goals of ensuring both Data Integrity and Privacy. Security is concerned with both the physical environment and the logical environment that exists behind the screens, keyboards and access points. A key concept in planning for security is the attack surface. The attack surface is the aggregate of all potential entry points into GSCA network resources. The policy design goal is to minimize the attack surface by eliminating unnecessary entry points and actively managing required entry points.

Physical Security involves controlling access to the office building itself and physical access to key equipment and controllers such as servers, high dollar value objects (including money) and sensitive or confidential information stored on physical media (paper, filing cabinets, etc).

Logical Security involves digital systems designed to control access to digital information stored within the Authority network. This network extends beyond the physical building(s) to include subscribed services such as cloud-based platforms (Office 365, SharePoint, Exchange email, etc), public facing hosted internet sites such as the corporate website, remotely accessible LAN services such as FTP and publicly accessible databases and/or web services. Logical security is far more complex than securing a physical building and tiny discrepancies or leaks of data can result in considerable information compromise. Because of the complexity and scale of digital systems, a robust end-to-end system is in place and constantly evolving to deal with existing and emerging threats. At the top of the list of threat mitigation efforts is the password. There are, however, a wide array of other features that enhance basic security features and serve to protect Authority information assets and help ensure we can meet our compliance requirements for privacy, reporting and retention. The table below summarizes key features in place to help meet these goals. See Appendix A1 – Security Requirements and Prohibitions for specific permissions and prohibitions.

Summary of Logical Security Features and Protocols

SECURITY FEATURE	DESCRIPTION	SCOPE
Robust, Managed Passwords	<ul style="list-style-type: none">Network passwords of varying complexity are assigned to all staff	<ul style="list-style-type: none">All staff/volunteers accessing computer

	<p>using GSCA systems.</p> <ul style="list-style-type: none"> • A tiered system is in place such that staff are assigned longer, more complex passwords as their access to sensitive or critical information and/or resources increases. <ul style="list-style-type: none"> ○ This tiered system will be subject to review and may change based on changes in staff roles or as security risks change. • Passwords will be renewed on a semi-annual basis. • No staff person will disclose their present or past passwords to any individuals within or outside the organization. • Passwords should be committed to memory or stored in a secure location such as a locked smartphone or in the individual's wallets until they are committed to memory. • Passwords that are left at risk of being exposed, such as on staff desks in the open, will be changed immediately by IM/IT staff. 	<p>systems, networks, data storage.</p>
Multifactor Authentication (MFA)	<ul style="list-style-type: none"> • MFA extends passwords to include a secondary physical authentication mode in addition to the assigned password. • MFA may involve an ID card requiring swipe/scan, a biometric scan device (fingerprint/iris/photo) or a smartphone device to receive access codes prior to accessing corporate resources. 	<ul style="list-style-type: none"> • Currently only staff with particularly high levels of access to Authority systems are using MFA via smartphone. • The assignment of MFA is at the discretion of the IS department and may include approval by CAO. • MFA may be required for all users if security risks increase.
Restricted Access to wireless networks	<ul style="list-style-type: none"> • No open access points will be available within the GSCA network. • An isolated 'guest' network will be available for visiting mobility devices. • MAC (physical) registration will be required for wireless corporate 	<ul style="list-style-type: none"> • All employees. All network guests/visitors. • This feature is currently being designed and built out to meet the description provided here.

	<p>devices to internal LAN.</p> <ul style="list-style-type: none"> • All devices must have an approved antivirus installed. 	
Demilitarized Zone (DMZ) for internet facing web services, databases	<ul style="list-style-type: none"> • Equipment and services directly accessible from the internet are hosted in a DMZ subnet that cannot access the corporate LAN. • In this way a deliberately exposed service cannot be compromised and then expose private corporate resources. 	<ul style="list-style-type: none"> • Web facing services include but not limited to: DWSP Property Tracking System, FTP for transfer of flood data from stream gauges, Topcon Base Station. • Migrations to the DMZ are in progress.
Summary of Logical Security Features and Protocols, cont'd		
SECURITY FEATURE	DESCRIPTION	SCOPE
Firewall and Intrusion Detection	<ul style="list-style-type: none"> • A dedicated hardware device controls data traffic in and out of the corporate network. • This creates a level of protection against outside attacks. • This allows IM/IT staff to monitor internet use and ensure staff access is primarily for business use and that no content being accessed is illegal, inappropriate or offensive; may jeopardize the security or integrity of GSCA's business operations, technology resources or data; and/or may violate GSCA policies. 	<ul style="list-style-type: none"> • All users and systems pass through the firewall protections. • Traffic through these devices is logged in detail. • All web browsing activity is completely logged in a dedicated proxy service.
Hosted messaging in Microsoft cloud	<ul style="list-style-type: none"> • Corporate email is managed in the Microsoft cloud, leveraging their expertise in managing email-borne risks. 	<ul style="list-style-type: none"> • All users are provided corporate email accounts and identities. • Personal email accounts should not be accessed or managed using corporate workstations except in special cases. • Syncing personal accounts to email applications, such as outlook, on GSCA systems is forbidden. <ul style="list-style-type: none"> ○ In special cases when accessing personal email is required, users will access it in an internet browser.

User Permissions	<ul style="list-style-type: none"> • Specific permissions for each user, or groups of users, are defined to ensure appropriate access, based staff role, to file and database systems on the internal network and in GSCA's cloud-based storage. <ul style="list-style-type: none"> ○ This ensures the protection of confidential information and targets staff to the appropriate departmental information. • These permissions are set to define and control user access to network folders and files, spatial and non-spatial databases, individual computers and external (cloud-based) and internal Microsoft SharePoint sites and resources. 	<ul style="list-style-type: none"> • All users have individual and group permissions assigned when their account is created.
Approved Software Application Installation and Use	<ul style="list-style-type: none"> • Standardizing the software used at GSCA for common procedures helps to: <ul style="list-style-type: none"> ○ Reduce the risk of attack from unfamiliar applications. ○ Increasing data consistency and integrity. ○ Streamline software installation, update and management by IM/IT staff. • IM/IT staff assess software applications as required to determine suitability for GSCA. • Permissions are defined so that only certain users may install software applications and utilities on desktop and laptop computers, tablets and server systems. • This safeguards the GSCA network from both security risks and inconsistency in software which can reduce data integrity. • Install permissions are limited to specific IM/IT staff. • There may be special, approved, instances when other users have temporary elevated install permissions. 	<ul style="list-style-type: none"> • All users, except for specific IM/IT staff, will be prevented from installing applications on any GSCA hardware. • In some, special instances, certain users may be permitted to temporarily install certain components or utilities specific to their position.

See Appendix A1 for a detailed list of permissions and prohibitions

SECTION 3 - PRIVACY

Extracted from Government of Ontario website:

In Ontario, there are four main laws that deal with access to information and privacy. Other federal and provincial legislation and municipal by-laws have specific access and privacy provisions that may also apply. The four main laws are listed below:

Freedom of Information and Protection of Privacy Act (FIPPA): Applies to the provincial government of Ontario, universities, colleges, hospitals and designated agencies. FIPPA came into force on January 1, 1988.

Municipal Freedom of Information and Protection of Privacy Act (MFIPPA): Is the local government equivalent of FIPPA and covers municipal institutions such as municipalities, cities, towns, school boards, police services and many other local government entities. MFIPPA came into force on January 1, 1991.

Personal Health Information Protection Act (PHIPA): Provides rules specific to personal health information in the custody of health information custodians. Health information custodians include health care practitioners such as hospitals, long-term care facilities, pharmacies and more. PHIPA came into force on November 1, 2004.

Personal Information Protection and Electronic Documents Act (PIPEDA): A federal legislation that governs how private companies and not-for-profit organizations engaging in commercial activities can handle personal information. PIPEDA came into force for federally regulated industries on January 1, 2001 and for all other companies and not-for-profit organizations engaged in commercial activities in Canada on January 1, 2004.

The Security features in Section 2 and the Data Integrity features in Section 4 all serve to protect the privacy of individuals, both employees and clients. The GSCA is further bound by the ***Municipal Freedom of Information and Protection of Privacy Act*** (MFIPPA).

see the links below for further details from the Province of Ontario website and the CanLII:

- General Information:
<https://www.ontario.ca/document/freedom-information-and-protection-privacy-manual>
- The Municipal Freedom of Information and Protection of Privacy Act (actual legislation)
<https://www.canlii.org/en/on/laws/stat/rso-1990-c-m56/latest/rso-1990-c-m56.html>

The GSCA is not obligated under federal PIPEDA (Personal Information Protection and Electronic Documents Act) legislation. It is, as noted above, incumbent upon the GSCA to safeguard the privacy of personally identifying information for its employees and clients to avoid damage to the Authority's reputation and legal liability. This includes a fiduciary responsibility to take reasonable precautions to prevent the unintentional or malicious exposure of personal information. There are also legal and

regulatory constraints on the delivery of unsolicited email (SPAM) under Canadian Antispam Legislation (CASL). Those measures also have the effect of preventing the unintended use or release of personally identifying information to commercially target individuals or groups.

Many provincial, municipal or private organizations have derived their privacy protection legislation, regulations and guidelines from the federal PIPEDA law, (Personal Information Protection and Electronic Documents Act). **Fair Information Principles** below serve as a guide for behaviours in the Privacy realm. Those ten principles capture the essential spirit of the laws and are listed below as a general guide. Reference the links to MFIPPA above for specific legal requirements within our jurisdiction.

PIPEDA* – Fair Information Principles

Principle 1 - Accountability

An organization is responsible for personal information under its control. It must appoint someone to be accountable for its compliance with these fair information principles.

Principle 2 - Identifying Purposes

The purposes for which the personal information is being collected must be identified by the organization before or at the time of collection.

Principle 3 - Consent

The knowledge and consent of the individual are required for the collection, use, or disclosure of personal information, except where inappropriate.

Principle 4 - Limiting Collection

The collection of personal information must be limited to that which is needed for the purposes identified by the organization. Information must be collected by fair and lawful means.

Principle 5 - Limiting Use, Disclosure, and Retention

Unless the individual consents otherwise or it is required by law, personal information can only be used or disclosed for the purposes for which it was collected. Personal information must only be kept as long as required to serve those purposes.

Principle 6 - Accuracy

Personal information must be as accurate, complete, and up to date as possible in order to properly satisfy the purposes for which it is to be used.

Principle 7 - Safeguards

Personal information must be protected by appropriate security relative to the sensitivity of the information.

Principle 8 - Openness

An organization must make detailed information about its policies and practices relating to the management of personal information publicly and readily available.

Principle 9 - Individual Access

Upon request, an individual must be informed of the existence, use, and disclosure of their personal information and be given access to that information. An individual shall be able to challenge the accuracy and completeness of the information and have it amended as appropriate.

Principle 10 - Challenging Compliance

An individual shall be able to challenge an organization's compliance with the above principles. Their challenge

should be addressed to the person accountable for the organization's compliance with PIPEDA, usually their Chief Privacy Officer.

*<https://www.priv.gc.ca/en/privacy-topics/privacy-laws-in-canada/the-personal-information-protection-and-electronic-documents-act-pipeda/>

SECTION 4 - DATA INTEGRITY

Ensuring data integrity requires the reliable creation, storage and retrieval of information within the corporate network. Data management systems are tightly integrated with both Security and Privacy policies and procedures. A breach or violation in any of the four broad areas of Use & Acquisition of GSCA IS Equipment, Security, Privacy or Data Integrity can have immediate and costly effects within the others. GSCA incorporates a range of hardware, software, services and procedures to ensure the availability and integrity of information. Key data protection and efficiency features are summarized below:

- Fault-tolerant physical storage within multidisc storage arrays
- Security policies that segment and protect information to ensure authorized access
- Prescribed storage locations for departmental and personal documents
- Automated backups of departmental and user documents
- Limits on 'Administrative' rights for end-users
- Standardized, industry recognized and/or internally approved application and server environments
- Antivirus and antimalware software on network endpoints
- Physically secured server room
- Standard naming conventions for flat folder and files as well as local and enterprise databases and their associated tables, views/queries, stored procedures and triggers

APPENDICES

The following appendices serve as checklists to inform and guide Authority staff. They present permissions, prohibitions and best practices within common IT activities. Review these items and, if necessary, contact IT/IM staff or your supervisor for clarification.

DEFINITIONS

Attack Surface: The attack surface is the aggregate of all potential entry points into GSCA network resources. This includes wireless access points, email, FTP sites and open firewall ports.

Authentication: any method used to verify the identity of an individual or device attempting to access restricted resources. A username combined with a secret password is the most common authentication method. More robust multi-stage methods are becoming common. See ***Multi-factor Authentication***

Bandwidth: A measurement of the amount of data that can be transmitted over a network at any given time. The higher the network's bandwidth, the greater the volume of data that can be transmitted.

BCP: Business Continuity Plan, or "BCP," is a set of documents, instructions, and procedures which enable a business to respond to accidents, disasters, emergencies, and/or threats without any stoppage or hindrance in its key operations. It is also called a business resumption plan, disaster recovery plan, or recovery plan.

Bluetooth: A wireless networking technology that allows users to send voice and data from one electronic device to another via radio waves.

Byte: all digital (binary) computer information is composed, essentially, of a collection of only two ones and zeros

Cloud/Cloud Computing: Cloud computing is a system of distributed processing, usually connected using the internet, where users access servers, applications, databases and other remotely located resources using a client browser application and an internet connection. Often common web browsers such as Google's Chrome Browser or Microsoft's Edge Browser are used. Dedicated browser clients are also common.

Compression (file): the process of reducing the size (as stored on disk) of a file or document. There are many software applications that use mathematical algorithms to reduce the number of bytes of storage required to make up a file. Digital computer data can also be compressed by hardware 'on-the-fly' or compressed for transmission over a network/internet and decompressed or 'inflated' upon delivery.

Cookie: cookies are small text files that web servers create and store on connecting client computers. These files identify the connecting user and/or computer to the server. Cookies are also used to store user preferences and other service specific details that are used the next time the user connects to that web service. This can create a more familiar and pleasant browsing experience. Cookies are specific to the servers that issued them.

CPU, GPU: A CPU (Central Processing Unit) is a highly integrated microprocessor or ‘chip’ that controls the operation of a computer system. A GPU (Graphics Processing Unit) is a similar device dedicated to processing graphics and video content.

DNS: DNS (Domain Naming System) is a distributed, database driven, method of correlating internet domain names like GOOGLE.COM or GREYSAUBLE.ON.CA into IP addresses. At a low level the internet and all other TCP/IP networks reference endpoints using an IP Address like 172.128.64.32 or 192.168.0.253. These addresses are not very human friendly. The DNS allows IP addresses to be associated with domain names, common English-language words that are far easier to remember.

Ethernet: a higher-level networking protocol, on top of TCP/IP that provides communications between common network devices

Encryption: a method applied to digital information such as files or in-transit data packets that scrambles the contents to render them unreadable and thereby protected from unauthorized view. Various methods exist to accomplish this. A common method called PKI (Public Key Infrastructure) uses both public and private keys in such a way as to keep communication or files private. **See SSL.**

File Transfer Protocol (FTP): A standard protocol or set of rules and signals used to transfer files generally between remote file systems using TCP/IP (such as internet).

Firewall: A program and/or hardware that filters and sets allowances on the information that can enter or leave a network.

Flash (Drive, Memory): Flash is a term to refer to a type of computer memory that is persistent and detachable from a powered host system. USB ‘flash’ drives are a good example of flash memory. SSD (Solid State Disk) drives also employ high-speed flash memory, are persistent without power and the devices contain no moving parts, rather they are entirely ‘solid state’ electronic devices.

Information Management Systems and Services: Any system or service, including procedures, that serve to manage, store, maintain, protect, visualize, query, and analyze the information, tangible, digital or otherwise of the Authority.

Information Technology: The development, maintenance and use of the physical and digital infrastructure that acts as the basis for Information Management and Services and computer networking. This can include hardware such as network servers, workstations, firewalls, access points, peripherals and cabling.

Local Area Network (LAN): The computer network that connects all hardware within one limited area, such as the GSCA network.

Multi-factor Authentication: A method of accessing computer software or services or “logging in” to a system using more than one method of authentication or evidence. This mode of authentication often requires users to enter a username and password as well as a code that is delivered to the user through a cell phone text, call or secondary email.

Network: A connection of multiple devices using multiple paths for the purpose of sending/receiving

data or media electronically.

Transmission Control Protocol (TCP): is a connection-oriented networking protocol that allow computers to communicate that provides a reliable end to end connection.

Wireless Access Points: A device that allows and controls the connection of other devices to a wired network.

Appendix A1 – Security

Physical Security Requirements and Prohibitions

- In conformity with the GSCA Personnel Policy, the Administration building and associated buildings on the same property must be locked and have active alarms outside of normal business hours and/or sanctioned Authority activities.
 - The main facility (Administration offices and Operations building) are protected by monitored alarm systems. All staff with keyed access to these buildings must be trained in arming and disarming the system. Each employee with this access is provided a unique, four-digit pin used for controlling the alarm system. Under no circumstance should this security pin be disclosed to anyone.
- Core IT devices such as servers, high-capacity storage, central switches and server power management must be enclosed in a dedicated, secured and climate-controlled room.
- Certain physical documents and financial instruments are also stored in a fireproof (unlocked) vault on the main level.
- Portable storage devices such as flash (thumb/usb) drives or external hard drives present a significant risk of data loss and/or privacy breach because, by design, these are small and portable. Devices from external sources should be treated as a potential risk.. Unencrypted removable storage devices (USB keys, flash, etc) should not be left inserted in machines or used as storage location except in special situations approved by the IS department.
- Password management/caching services are not a recommended use within the GSCA network. These services ask to store user passwords so that when users return to sites that require a login, the password will autopopulate once the username is entered. Leaving passwords stored in a caching service creates the potential for exposure of passwords and poses a security risk.

Logical Security Requirements and Prohibitions

Under this policy staff, volunteers or other individual with network access will:

- Not disclose their current or previous passwords to ANYONE including coworkers and supervisors
- Not use their corporate identities (email addresses, login names or passwords) for personal use including on social media, mailing lists or subscriptions unless specifically related to their job function at GSCA.
- Not store passwords on written notes or in any location that may cause it to be disclosed to others. IM/IT staff can reset a compromised or forgotten password.
- Not leave workstations logged in unnecessarily. Do not leave computers unattended and logged in or unlocked for any significant period of time.

- Not interact with or respond to any email message you find suspicious. Email is a very common delivery mechanism for malicious exploits. Seek advice from IM/IT staff if in doubt.
- Use Passwords that meet complexity requirements and are renewed regularly by the IM/IT staff. Approximately every 6 months.
- Not log in to Outlook or other email applications on their home computer so that email and login information is downloaded and synced to the client on a home computer. If users require access at home, they can log into **a browser** from their home computer and use corporate webmail services rather than the dedicated email application (Outlook, Thunderbird etc.).
- Generally, use of the internet on GSCA workstations shall be for business reasons. No content being accessed shall be illegal, inappropriate or offensive; jeopardize the security or integrity of GSCA's business operations, technology resources or data; and violate GSCA policies.
- No users shall knowingly install software applications without prior approval.
- Users who require the installation of a software application, should approach IM/IT staff who will determine whether it's an approved application.
- Examples of standard, approved applications are all Microsoft Office Cloud products, PDF Xchange, Manifold GIS, Socet GXP (on defined machines), Adobe Acrobat, Microsoft InfoPath, Splashtop, Adagio and PayDirt for finance, staff.
- Standard internet client applications include Google Chrome, Edge and Internet Explorer (soon to be deprecated).
- Under no circumstances should GSCA Cloud data be synced to other third-party cloud systems.
- Must not store passwords related to GSCA in internet browsers or anywhere else on personal machines except for smartphones that are secured with a password and have an antivirus installed.
- Make a request to their immediate supervisor for remote access to network resources through a Remote Desktop Connection (RDP) to allow working from home must be approved by a coordinator and IM/IT staff. To have remote access enabled staff must:
 - Must use multi factor authentication (assigned by IM/IT staff).
 - Must not provide passwords to any individual.
 - Users will not connect to the GSCA network from open, unsecured Wi-Fi locations (free hot spots).
 - Access to the GSCA network via RDP may be established on a short-term basis. Other methods of accessing resources, such as editing documents in SharePoint, are preferred. However, RDP may be required to access specific software within the network. Upon approval of a remote connection from a coordinator, IM/IT staff will open a temporary port in the firewall and connection information will be provided to the user or provide VPN type utilities such as Splashtop to connect to the GSCA network.
 - For RDP connections staff must use a GSCA issued device.
 - No GSCA files are to be stored on personal device. If they are downloaded

onto a personal device to be worked on, they must be removed once work is completed and uploaded to the GSCA system.

- In special circumstances, such as when the pandemic plan (see Appendix A8) is in place, remote access may be required for all staff. IM/IT staff will have specialized procedures in place for providing equipment and software/utilities, such as Splashtop, for working from home. Under these circumstances these specialized procedures may supersede procedures defined in this policy.

Appendix A2 – EMAIL and INTERNET USAGE

Email is prolific and has become a central component for business messaging and interoffice communication. In line with this, email is the largest attack vector and requires vigilance and attention to detail, along with security software, to protect against this significant threat potential.

Some best practices for email use are as follows:

- Restrict the use of Authority email to Authority business. Do NOT use Authority assigned email addresses or passwords for personal use.
- Avoid using Authority computer systems to access unauthorized personal email services. Successful exploits against your personal digital space can be introduced to the Authority network this way.
- Be aware of legislation restricting unsolicited commercial email or SPAM. Initiating a bulk delivery of email for marketing, fundraising or other purpose MUST be compliant with the current CASL legislation. <https://www.fightspam.gc.ca/eic/site/030.nsf/eng/home>
- Be aware of potential email-borne exploits and suspicious of unsolicited messages, even from known contacts. Review the email/security related terms to familiarize yourself with some of the potential threats you may encounter.

Internet connectivity is provided to GSCA equipment and, by extension, staff for the express purpose of carrying out authorized Authority business. It is NOT provided for personal use of any kind. Internet connectivity and email provide a pathway for a wide array of malicious activities. These vectors account for a large portion of the attack surface. Often these exploits are combined to increase their potential effectiveness. Some common exploits are described below, along with a brief description and ranking of the potential damages from a successful attack.

Common Internet or Email-based Threats and Exploits

Threat Name	Description	Threat Level
SPAM	Common unsolicited commercial email	LOW

MALWARE/WORMS	Wide range of vectors/mechanisms. Browser hijacks, cross-site scripting. Worms, once in place, self-replicate and spread without human intervention	HIGH
RANSOMWARE	Usually paired with a precipitating exploit such as worms/malware, phishing. This is a severe attack destroying data and triggering financial extortion	VERY HIGH
PHISHING	Usually email-based, phishing attempts to trick users into revealing sensitive corporate information, often by masquerading as someone/something known to the user	MEDIUM to HIGH
CLICK BAIT	Similar to phishing, click-baits are often web-based links, often salacious, to induce the user to click and follow the link. This may redirect to compromised servers or purpose-built services to trick the user into providing private data. At minimum click-bait often generates small revenues for the perpetrator	MEDIUM

Appendix A3 – PERSONAL DEVICES

It is very common for individuals to own and operate a wide variety of personal digital devices with networking capabilities. Many of these devices are high-quality, well-engineered devices with adequate or better security features. Many personal devices are not. Connecting such personal devices, regardless of manufacturer, to the Authority network directly is prohibited. The Authority does provide an isolated wireless network or 'hotspot' to offer internet connectivity to staff during working hours. Bandwidth is not unlimited. It is not intended to offer capacity for staff to perform major updates, upgrades or downloads onto personal digital devices. Bandwidth on the wireless 'guest' or 'hotspot' network may be restricted or removed without notice to individual devices or entirely in order to support the primary internet connections supporting office Authority operations.

Appendix A4 – 3rd-PARTY SERVICES and SOFTWARE

In general, staff are provided unrestricted access to the internet. As a result, users will encounter access to an unlimited variety of online services and software available for use. While this may be convenient it creates the possibility for insecure or worse, malicious, software to enter the GSCA network. Users are given credentials and authority that limits the ability to download and install most software. When specialized software is required users are required to request support from IM/IT staff. IM/IT staff will review the software or service, in consultation with the appropriate coordinator(s), to determine suitability and, if appropriate, install and configure the software to operate safely and effectively within the GSCA network environment.

A partial list of approved software and services is provided below:

- Microsoft Office 365 Cloud products
- PDF Xchange
- Manifold GIS, QGIS, ArcGIS (on defined machines)
- Socet GXP (on defined machines)
- Adobe Acrobat
- Microsoft InfoPath
- Adagio (Finance and HR applications)
- PayDirt (Finance and HR applications)
- HecRAS/HMS
- GeoHecRas (on defined machines)
- PCSWMM (on defined machines)
- Autodesk (on defined machines)
- Splashtop

Appendix A5 – Shutdown and Startup Procedures

In the event of a complete network shutdown, caused by power loss or other event, IM/IT staff are responsible for restarting the network following a prescribed procedure designed to ensure that required core services and resources are online and accessible to dependent services and resources. The order of shutdown or startup is important to ensure proper network operations following the shutdown and startup event. Follow the procedure detailed below:

GSC SERVER ROOM – MANAGING POWER LOSS TO THE FACILITY

Emergency shutdown and Startup procedures

This document provides guidance to staff responsible for maintaining physical and virtual infrastructure in the Authority network. In the event of either unexpected or scheduled loss of electrical supply the following procedure should be followed to minimize the potential for equipment damage or data loss. This procedure is also applicable to circumstances requiring a deliberate shutdown of the network such as a security breach response or other imminent threat to data or machine integrity.

The physical servers and switches located in the server room in the basement of the GSC Administration building are powered on dedicated branch circuits. The circuits themselves originate in the service panel located at the top of the northwest stairwell. The rack is fitted with two APC 2200RM UPS units which provide a run-time of approximately 20 minutes in the presence of power loss to the room. Once facility power has been lost for more than 30 seconds the ordered shutdown should begin.

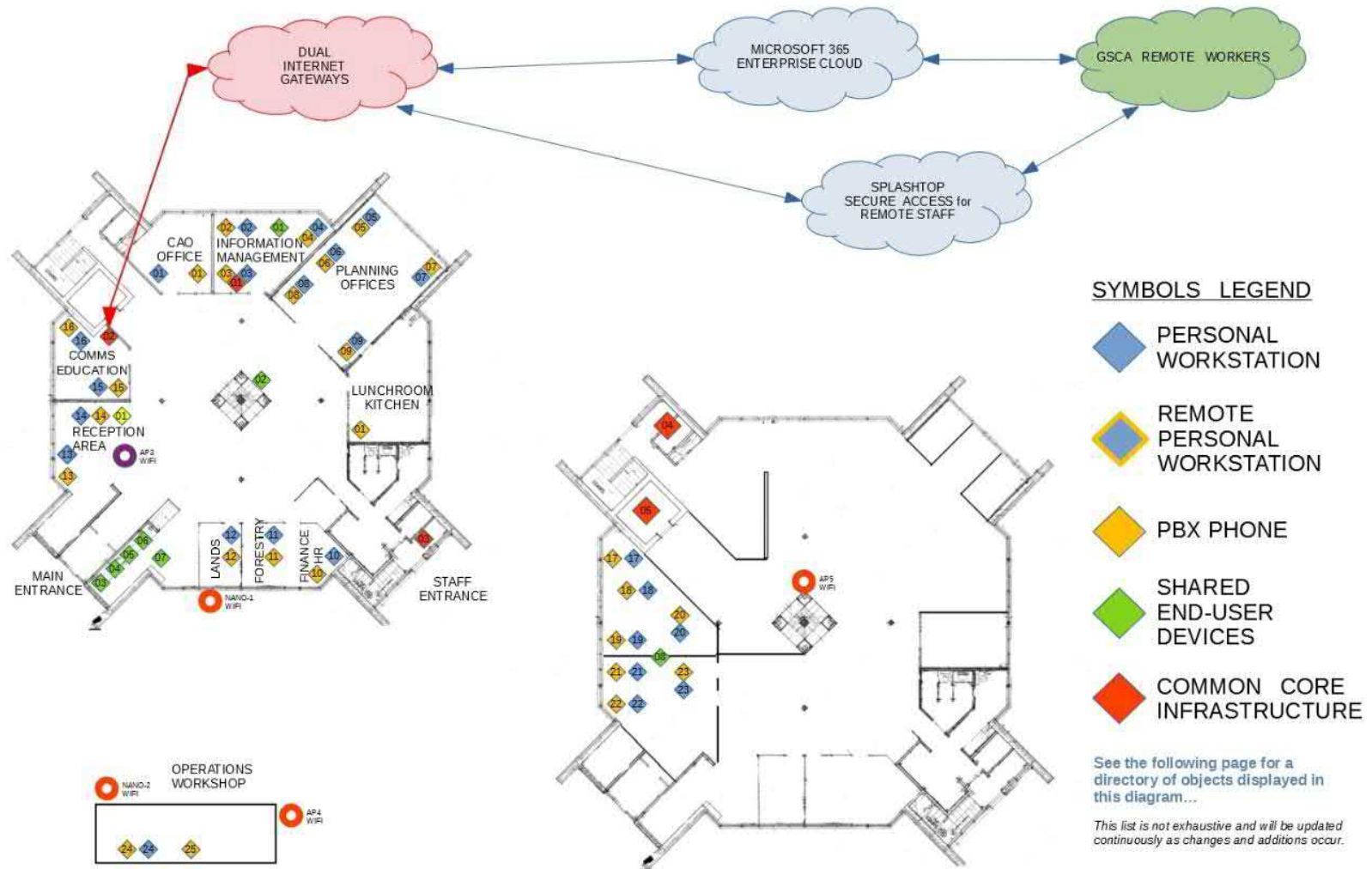
1. To the extent possible notify staff that all open documents should be saved and closed immediately followed by the shutdown of their workstation(s). You can allow 5-10 minutes for staff to perform the workstation shutdowns.
2. Log into the physical host server GSC-DL380A.GREYSAUBLE.ON.CA as a Domain Administrator or local Administrator and start the Hyper-V administration console located on Start Menu or in Administrative Tools (start menu or control panel). Alternatively open a command prompt/powershell session or run dialog and execute **virtmgmt.msc** or locate the app under 'Administration Tools'. The physical servers are labelled with their actual hostnames as configured in the Domain and DNS.
3. Connect all three physical virtual-host servers to the console. The machine names to connect are:
 1. GSC-DL380A
 2. GSC-DL380-G6
 3. GSC-DL380-G7
4. Select GSC-DL380-G6 and send the shutdown command to all three virtual machines, GSC-DPM02, GSC-SP2013-WFE1, GSC-WSUSAV. Once these virtual machines have powered off enter the following command at a powershell/DOS shell: **shutdown /s /m \\gsc-dl380-g6**
5. Select GSC-DL380-G7 and send the shutdown command to all running virtual machines. You can select all machines at once and right-click the selection and select 'Shut Down'. Once these virtual machines have powered off enter the following command at a powershell/DOS shell: **shutdown /s /m \\gsc-dl380-g7**
6. Select GSC-DL380A and send the shutdown command to all running virtual machines. You can select all machines at once and right-click the selection and select 'Shut Down'. Once these virtual machines have powered off enter the following command at a powershell/DOS shell: **shutdown /s /m \\gsc-dl380a.**

7. Once all the physical servers are off you may power down the two primary switches: DGS1216 in the server rack and DSG1248 in the Comms Closet upstairs. Log into the Primary Domain Controller, gsc-pdc00 and shutdown server. Domain Admins can remotely shutdown gsc-pdc00 and gsc-pdc01 from a network connected domain workstation by sending the following command from an administrative shell: **shutdown /s /m \\gsc-pcd00**. Power down BOTH APC2200RM UPS's in the server room and disconnect the power supply mains at the wall. Shutdown/power off the Zyxel USG60W firewall and Xplornet radios (x2) in the upstairs comms closet by the vault. Optionally, power down the Topcon Base Station. Power down the UPS in the comms closet.
8. Wait for the return of power (or resolution of other causes) and proceed in reverse to bring the network back up. Start by powering on the UPS and main switch in the Comms Closet upstairs and then power on the Domain Controller gsc-pdc01. Power on the Zyxel firewall (USG60W) in the Comms Closet if it is off. Reconnect and power on the Topcon Base Station and the Xplornet radios (x2). Reconnect Server Room APC2200RM UPS's to the electrical mains and power on the UPS units.
9. Power on switch DGS1216 in the Server Room rack. Power on gsc-pdc00 in server rack. Power on GSC-DL380A. NOTE that powering on GSC-DL380A will start ALL automatic start virtual machines simultaneously. Internet connectivity should resume in less than 5 minutes.
10. Power on GSC-DL380-G7 and GSC-DL380-G7
11. Proceed with diagnostic checks against domain controllers (dcdiag) and ensure DNS, DHCP, INTERNET and CLOUD SYNC (gsc-webservices).



Appendix A6 – Network Layout

GSCA maintains a collection of detailed network documentation to assist staff in visualizing the physical and logical relationships and facilitate planning for change. The diagram on the following page provides a high-level view of the Administration facility and connected services. The information management systems of the Authority extend well beyond the physical boundaries of the Administration building. Recent external events, such as the 2020 COVID-19 pandemic, have provided impetus to create systems and procedures to allow Authority business to continue following loss of access to the Administration facility.

Appendix A6 – Network Layout Diagram



Appendix A6 – Network Layout – Details Table

	PERSONAL WORKSTATIONS are provided to staff with features and performance specifications aligned with the needs of each particular position. This class of workstation is generally paired with a standard office telephone extension at the desktop. Extensions are listed in tandem with the computers in this table.			
	REMOTE PERSONAL WORKSTATIONS are provided to staff with features and performance specifications aligned with the needs of each particular position. These machines are located at staff residences to facilitate remote (home) work during the loss of access to the Administration Building. These devices are not enumerated here at this time.			
SYMBOL #	HOSTNAME	DEPARTMENT and STAFF POSITION	REMOTE ACCESS	PBX EXTENSION
1	GSC-CAO	ADMINISTRATION, CAO	YES	234
2	GSC-ISADMIN	INFO SERVICES, MANAGER	YES	237
3	GSC-SYSADMIN	INFO SERVICES, NETWORK ADMIN	YES	275
4	GSC-GIS03	INFO SERVICES, GIS SPECIALIST	YES	232
5	GSC-PLAN01	PLANNING/REGS, MANAGER	YES	227
6	GSC-PLAN05	PLANNING/REGS, STAFF	YES	242
7	GSC-PLAN03	PLANNING/REGS, STAFF	YES	230
8	GSC-PLAN04	PLANNING/REGS, STAFF	YES	246
9	GSC-PLAN02	PLANNING/REGS, STAFF	YES	235
10	GSC-FINANCEMGR	ADMINISTRATION, FINANCE/HR MANAGER	YES	222
11	GSC-FORESTRYMGR	FORESTRY, MANAGER	YES	280
12	GSC-LANDMGMT	LANDS, MANAGER	YES	n/a
13	GSC-ACCTCLERK	ADMINISTRATION, ACCOUNTING CLERK	YES	226
14	GSC-ADMINSEC	ADMINISTRATION, ADMIN ASSISTANT	YES	221
15	GSC-COMMS-EDU	INFO SERVICES, EDUCATION COORDINATOR	YES	
16	GSC-COMMS02	INFO SERVICES, COMMUNICATIONS	YES	278
17	GSC-RMO-MGR	DWSP/RMO, MANAGER	YES	201
18	GSC-COMMS01	DWSP/RMO, STAFF	YES	205
19	GSC-FLOODMGMT	WATER/FLOOD, MANAGER	YES	228
20	GSC-STEWARDSHIP	STEWARDSHIP, STAFF	YES	247

21	GSC-FORESTRY01	FORESTRY, STAFF	YES	225
22	GSC-FORESTRY02	FORESTRY, STAFF	YES	276
23	GSC-GCFORESTRY	LANDS, GREY COUNTY FORESTRY	YES	277
24	GSC-OPERATIONS	OPERATIONS, MANAGER	NO	238



SHARED END-USER DEVICES are common peripheral devices or computer systems shared amongst staff on an as needed basis. Server computer systems are NOT included in this class of devices.

SYMBOL #	HOSTNAME	DESCRIPTION / PURPOSE
1	GSC-GXP2	3D MODELLING WORKSTATION
2	GSC-GXP	3D MODELLING WORKSTATION (PLANNING)
3	GSC-CONTEX	LARGE FORMAT SCANNER/COPIER
4	XEROX7855	HIGH VOLUME COLOUR COPIER/PRINT/FAX
5	HP8216	COLOUR INKJET LABEL PRINTER
6	GSC-POSTAGE	POSTAGE METER
7	IPF8400	LARGE FORMAT PLOTTER
8	CANON5030	HIGH VOLUME COLOUR COPIER/PRINT/FAX



COMMON CORE INFRASTRUCTURE includes high performance servers and storage arrays, high capacity and/or large format printers, copiers, scanners, etc. Network switches, cabling, internet gateways and similar are also included in this table as key core infrastructure. Some of this infrastructure exists as virtualized systems on dedicated hosting servers. These are indicated below as well.

SYMBOL #	HOSTNAME	DESCRIPTION / PURPOSE
1	GSC-READYNAS104	HIGH CAPACITY STORAGE ARRAY
2	COMMS CLOSET / FIREWALL / FIBEROPTICS	UTM FIREWALL, DUAL WAN, HIGH VOLUME SWITCHES
3	BUILDING ALARM SYSTEM	INFO SERVICES, NETWORK ADMIN
4	PBX, ELECTRICAL PANELS	INFO SERVICES, GIS SPECIALIST
5	SERVER VAULT	See next page for details

6	WIFI NETWORK EXTENSIONS	AP1 -> AP5, NANO1, NANO2 provide WIFI links to corporate WAN
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COMMON CORE INFRASTRUCTURE – KEY COMPONENTS

HOSTNAME	DEVICE TYPE	VM?	DESCRIPTION
GSC-DL380A	SERVER		File server, virtualization host
GSC-DL380-G7	SERVER		Virtualization host
GSC-DL380-G6	SERVER		Virtualization host
GSC-OFFSITE01	SERVER		Backup Storage
GSC-PDC00	SERVER		Primary domain controller
DGS1216	SWITCH		High capacity network switch in vault
DGS1248	SWITCH		High capacity switch in comms closet
DGS1210	SWITCH		High capacity switch in comms closet
DC0	DC SERVER	YES	Secondary Domain Controller
DC1	PRINT SERVER	YES	Printer Server
GSC-SQL02	DATABASE SERVER	YES	Database Server, Geospatial Data
GSC-SQL03	DATABASE SERVER	YES	Database Server, Sharepoint, Finance
GSC-WSUSAV	UPDATE SERVICE	YES	Automatic Updates Server (Microsoft products)
GSC-DPM02	BACKUP SERVER	YES	Backup Server
GSC-FLOODVM	FTP SERVER	YES	Captures remote sensing data for flood monitoring
GSC-ACCOUNTING	SERVER	YES	Accounting, Payroll, HR databases and file server
GSC-SP2013	SERVER	YES	In-house Sharepoint server
GSC-IMAGERY	SERVER	YES	Geospatial Imagery File Server
GSC-RMOPTS	SERVER	YES	Public facing Risk Management Property database
GSC-COMMSERV	SERVER	YES	Exchange email service management

GSC-WEBSERVICES	SERVER	YES	Domain directory synchronization to MS Cloud
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Appendix A7 – Pandemic Plan



Grey Sauble Conservation Authority

Interim Pandemic Plan

March 18, 2020

From:
Tim Lanthier
Chief Administrative Officer

Interim Pandemic Plan

Introduction

The intent of this policy is to ensure business continuity in a pandemic. Short-term planning with a health focus is paramount. The assignment of temporary duties may be required as is the identification of essential services and key staff to maintain essential and/or time critical services.

Status

- Currently Grey Sauble Conservation Authority (GSCA) does not have a contingency plan for any form of business interruption.
- GSCA has provided communications to employees in the form of internet source information (public health, insurance providers, etc.) to create awareness among employees regarding the pandemic and methods to prevent the spread of any virus.
- GSCA has provided opportunities for hand-washing guidance and hand-washing facilities in the form of hand sanitizers and hand-wash stations throughout the buildings as well as disinfectant products to clean multiple-use surfaces such as keyboards and doorknobs.

Legal Issues

- OHSA – employers have a duty to “take every precaution reasonable in the circumstances for the protection of the worker.
- Employees have the right to refuse unsafe work.
- Human rights law generally provides that employers are only allowed to request information that is relevant to the accommodation of a disability.
- The Ontario Employment Standards Act provides for a statutory protected unpaid leave for care of certain family members for up to 10 days.
- The Ontario Employment Standards Act provides for a statutory protected unpaid leave for up to 28 weeks for care of certain family members in the case of a serious

medical condition with a significant risk of death occurring within a period of 26 weeks.

- GSCA provides eight (8) days per year for sick leave on a cumulative basis. Many GSCA employees have enough accumulated sick leave to accommodate a longer period.
- GSCA does not provide a policy for “working from home”. Employees generally do not have a legal right to be paid unless they work. GSCA policies allow employees to take up to eight (8) days of unpaid leave for Personal Emergencies.
- In general, right to privacy must be balanced with maintaining a safe and healthy workplace.

Pandemic Stage

Several measures should be considered once a pandemic has been declared:

- Social distancing – cancelling or limiting face-to-face meetings.
- Tele-working – working from a remote location.
- Infection Control & Education – continuation of education regarding proper hygiene to reduce the spread of infection and increasing the cleaning of “high-touch” areas.
- Communication – continuous updates to employees as required.

Steps to a Pandemic Plan

- establish critical functions
- designate primary individuals to maintain critical functions
- designate back-ups for critical functions
- establish priorities in order to set aside certain functions and tasks during critical pandemic period
- designate key people and back-ups to disseminate information
- decide on communication measures to:
 - disseminate essential information
 - establish mechanisms for alerting staff to changes in pandemic status
 - establish procedures for escalating a response
- establish procedures:
 - to ensure employees do not come to work while infectious
 - to send staff home due to suspected illness
 - for reporting/calling-in procedure for employees
 - to establish a tracking mechanism for sick or not-at-work employees
 - for permitting employees to return to work

Steps to a Pandemic Plan (continued)

1. Pandemic Plan Management Committee:

Will be established consisting of the CAO, Finance Coordinator, GIS/Database Coordinator, Network Administrator, Project Manager DWSP, and Chair of JH&S Committee to ensure the continuation of essential services and proper monitoring and communication for the pandemic event. Committee will meet as necessary to assess the situation. All communication will be the responsibility of the Programs and Communications Planner or designate.

2. Essential Services

Will be maintained by the following staff:

Function	Lead Staff	Back-up Staff
Corporate Direction	Tim Lanthier, Chief Administrative Officer	1 st Alternate: John Bittorf, Water Resources Coordinator 2 nd Alternate: Carl Seider, Project Manager, DWSP
Flood Forecasting & Warning	John Bittorf, Water Resources Coordinator	1 st Alternate: Carl Seider, Project Manager, DWSP 2 nd Alternate: Gloria Dangerfield, GIS/Database Coordinator
Payroll & Payroll Records	Alison Armstrong, Finance Coordinator	Les McKay, Network Administrator
Information Technology	Gloria Dangerfield, GIS/Database Coordinator	1 st Alternate: Les McKay, Network Administrator 2 nd Alternate: Mike Fry, Forestry Coordinator
Communications	Vicki Rowsell, Programs and Communication Planner	1 st Alternate: Gloria Dangerfield, GIS/Database Coordinator 2 nd Alternate: Karen Gillan, Program Supervisor, DWSP

3. Time Critical Services

Will be maintained by the following staff:

Function	Lead Staff	Back-up Staff
Corporate Direction	Tim Lanthier, Chief Administrative Officer	1 st Alternate: John Bittorf, Water Resources Coordinator 2 nd Alternate: Carl Seider, Project Manager, DWSP
Flood Forecasting & Warning	John Bittorf, Water Resources Coordinator	1 st Alternate: Carl Seider, Project Manager, DWSP 2 nd Alternate: Gloria Dangerfield, GIS/Database Coordinator
Payroll & Payroll Records	Alison Armstrong, Finance Coordinator	Les McKay, Network Administrator
Information Technology	Gloria Dangerfield, GIS/Database Coordinator	1 st Alternate: Les McKay, Network Administrator 2 nd Alternate: Mike Fry, Forestry Coordinator
Communications	Vicki Rowsell, Programs and Communications Planner	1 st Alternate: Gloria Dangerfield, GIS/Database Coordinator 2 nd Alternate: Karen Gillan, Program Supervisor, DWSP
Planning and Development Regulations	Andrew Sorensen, Environmental Planning Coordinator	MacLean Plewes, Watershed Planner Justine Lunt, Environmental Planner

Dam Maintenance (installation, removal, or management of major dam structures)	John Bittorf, Water Resources Coordinator	Morgan Barrie, Acting Operations Manager
Tree Planting and Sales	Mike Fry, Forestry Coordinator	1 st Alternate: Cam Bennett, Senior Forestry Technician 2 nd Alternate: Rita McGee, Forestry Technician
Grey County Forestry By-Law	Lee Thurston, Forestry Technician (Grey County)	Tim Lanthier, Andy Sorensen, or as assigned
Source Water Protection Risk Management (Land Use Screening and Compliance)	Carl Seider, Project Manager, DWSP	1 st Alternate: Karen Gillan, Program Supervisor, DWSP 2 nd Alternate: Justine Lunt, Risk Management Inspector
Fleet Resources (as necessary)	Morgan Barrie, Acting Operations Manager	As Necessary

All other functions will be considered non-essential unless otherwise decided by the Pandemic Plan Management Committee.

4. Supervisory Staff

Will designate a second-in-command for the purpose of reporting, maintaining and carrying out matters related to this plan. Supervisors and designates will be listed on the GSCA webpage and at all first aid stations.

5. Reporting

All Employees will be required to report as appropriate daily to inform their supervisor or designate of their status as to availability to work. This information will be reported to the Finance Coordinator for monitoring purposes.

6. Responsibilities of Grey Sauble Conservation Authority

Grey Sauble Conservation Authority is committed to taking reasonable and responsible precautions to protect staff. This Plan details the general precautions and measures that GSCA is committed to undertaking. Other specific items will be addressed through the CAO, in consultation with the Board, as they arise

7. Responsibilities of the Pandemic Plan Management Committee

- designating, altering or changing priorities as required, including essential services and essential staff
- ensuring that the health and safety of staff is paramount to exercising the pandemic plan including requests for employees to go home or not report to work
- ensuring that appropriate procedures are in place for employees to return to work after a personal or family illness
- altering hours of work to accommodate essential services and re-deploying staff to ensure that essential services are carried out
- ensuring flexibility is maximized for situations when working from home is advantageous to ensure health and safety of staff and/or maximizes business processes
- ensuring support for staff who require time off to care for an ill dependent
- cancelling planned vacation leaves if necessary, to maintain essential services
- to give consideration to exceptional circumstances where an employee has exhausted all accumulated sick leave and vacation credits
- to have discretion when a doctor's note is required in keeping with current sick leave policy and legislation

Responsibilities of Employees

In consideration of the health and wellbeing of both GSCA staff and visitors at all our locations, the following precautionary measures are effective immediately:

All GSCA employees are asked to:

- wash hands frequently
- use antiseptic wipes on desks, telephones, keyboards, chair handles and other workspace surfaces

- practice social distancing and utilize telephone or email over direct meetings with internal staff.
- refrain from face to face meetings with the public and/or outside agencies
- refrain from using telephones and computers in workspaces other than one's own

Anyone who has had direct contact with a person known to be infected with COVID-19 must:

- disclose this to his/her Supervisor, Manager, CAO or Human Resources
- remain at home unless considered essential staff and entering the office is necessary for completion of essential tasks. Staff should attempt to utilize alternate staff to accomplish task if possible.
- If essential tasks require entering the office, the employee must use extra caution and limit his/her interactions with others while self-monitoring for symptoms
- remain at home and notify back-up staff if feeling ill

Any GSCA staff exhibiting COVID-19 symptoms must:

- disclose this to his/her Supervisor, Manager, CAO or Human Resources
- remain at home for a minimum 14 days after symptoms are no longer present and in concert with the provisions of the above policies related to contact with an infected person (eg: family member still sick)
- provision of a medical clearance may be required prior to returning to work

Escalation Triggers and Actions

These escalation actions will be triggered by a series of potential events, including proactive management measures, partner and stakeholder actions, Public Health authority directives and/or advice, and Provincial and Federal government directives. Decisions to escalate will be determined by the CAO, or designate, in consultation with the Chair and/or Vice Chair of the Authority.

1. Level 1: Enhanced Cleaning and Hygiene Measures

As per the Infection Control Measures in Section 12 of GSCA's Health and Safety Policies, upon threat of a viral pandemic, GSCA will increase messaging

to staff on office and hand hygiene. GSCA will also increase availability of hand washing supplies (as necessary), hand sanitizers, and disinfectant wipes.

Under this situation, all services will continue as per usual, with a heightened awareness of common personal health and safety measures. Reasonable social distancing is recommended during this time.

2. Level 2: Reduced Public Service

Based on the advice of Public Health authorities and/or the Provincial and/or Federal Government and/or occurrence of pandemic cases in local community, GSCA will restrict office access to only GSCA employees and will restrict employee travel, meetings, workshops, etc.

All meetings, camps, etc. at GSCA's office will be cancelled, postponed, or rescheduled as teleconference.

During this phase, business will otherwise continue as per usual for all departments. Level 1 measures will continue to apply. Staff may continue with site visits subject to not meeting other people (public, landowner, other agencies) as part of visit. Staff will be available to the public through email and telephone communications.

During this phase, GSCA will work towards ensuring that resources are in place to support staff in the event that the situation evolves to Level 3.

3. Level 3: Remote Services (Time Critical Services)

Based on the advice of Public Health authorities and/or the Provincial and/or Federal Government and/or decision of the CAO in consultation with the Chair and/or Vice Chair of the Authority, GSCA staff will be advised of the necessity to work remotely from home where possible or to otherwise stay home.

All restrictions of Levels 1 and 2 will apply. At this time, Time Critical Services and Essential Services will continue as per the necessity of these services. Non-essential and non-time critical services may need to be discontinued to accommodate available resources, bandwidth, and working conditions. Department managers, in consultation with the CAO, will determine what services should continue and which can wait.

Staff providing these services will still generally be available to the public through email communications.

4. Level 4: Essential Services (Essential Staff Only)

This situation is near worst case in which work can continue and will generally arise out of strict advice from Public Health authorities and/or the Provincial and/or Federal government to reduce services.

In this situation, GSCA will only be providing Essential Services as noted above. These essential staff may be required to come into the office to provide these services. Situations will vary and will be assessed and re-evaluated as necessary. Other than formal communications, staff will generally not be available to the public.

5. Level 5: Cease Work

This situation represents a scenario in which it is not possible or unacceptably unsafe for GSCA to continue to provide its services. In this scenario, GSCA will shut down completely until further notice.

6. Return to Service

Following the recession of a pandemic situation, GSCA service levels will ultimately return to a higher level of service (ie: level 3 to level 2). This will be assessed and evaluated by the CAO and Board Chair/Vice-Chair as each individual situation arises in conjunction with advice from Public Health authorities and/or the Provincial and/or Federal Government.

Definitions

Essential Staff: to be determined by the Pandemic Plan Management Committee or as set out in this policy for the purpose of carrying out the following essential services:

1. Corporate Direction
2. Flood Forecasting & Warning
3. Payroll & Payroll Records
4. Information Technology
5. Communications

Time Sensitive Staff: to be determined by the Pandemic Plan Management Committee or as set out in the policy for the purpose of carrying out the following essential services:

1. Corporate Direction
2. Flood Forecasting & Warning
3. Payroll & Payroll Records
4. Information Technology
5. Communications
6. Planning and Regulations
7. Forestry Operations – (during Spring planting period)

Dependent: parent, spouse/partner, child, sibling, in-law, grandparent, grandchild, ward or guardian.



Grey Sauble Authority Board of Directors

M O T I O N

DATE: June 24, 2020

MOTION #: FA-20-

MOVED BY: _____

SECONDED BY: _____

THAT the Grey Sauble Conservation Authority Board of Directors proceed into closed session at _____ pm to discuss matters related to the following:

An Item related to the security of the property of the Authority – s.4(17)(xvii)(a) and litigation or potential litigation including matters before administrative tribunals - s.4(17)(xvii)(d).

AND FURTHER THAT CAO, Tim Lanthier, Administrative Assistant, Nancy Guest, and Manager of Information Services, Gloria Dangerfield remain in attendance.



Grey Sauble Authority Board of Directors

MOTION

DATE: **June 24, 2020**

MOTION #: **FA-20-**

MOVED BY: _____

SECONDED BY: _____

THAT a closed meeting was held, and only closed session items identified were discussed in closed session.

AND THAT the Grey Sauble Conservation Authority Board of Directors approve the May 27, 2020 Confidential Closed Session minutes as presented in the closed session agenda.