

Board Meeting

Video-conference 1:00 pm May 20, 2020

AGENDA

ROLL CALL

Agenda Review MOTION

Declarations of Interest (written)

- 1. Watershed Condition and Outlook (verbal Jenn North)
- 2. Approval of Minutes Board Meeting, April 15, 2020. See attached.
- 3. Approval of Minutes Special Board Meeting, April 15, 2020. See attached.
- 4. Business arising:
 - a. Lower Mississippi Flood Plain Mapping update (verbal Sally McIntyre)
 - b. COVID-19 update (verbal Sally McIntyre)
- 5. Kashwakamak Lake Dam Project Update, Report 3057/20 (Juraj Cunderlik)
- 6. Regulatory Permits (January-April 2020), Report 3058/20 (Matt Craig)
- 7. 2019 Poole Creek Stewardship Project, PowerPoint attached. (verbal Amy Tenbult)

Other Business

ADJOURNMENT

MISSISSIPPI VALLEY CONSERVATION AUTHORITY

BOARD OF DIRECTORS TELECONFERENCE

Mississippi Valley Conservation Centre

MINUTES

April 15, 2020

Carleton Place

MEMBERS PARTICIPATING: J. Mason, Chair

G. Gower, Vice-Chair;

J. Atkinson;F. Campbell;E. El-Chantiry;

T. Fritz;
B. Holmes;
J. Inglis;
J. Karau;
W. King;
P. Kehoe;
C. Lowry;
P. Sweetnam;
K. Thompson.

MEMBERS UNAVILABLE: E. Burke;

R. Darling; G. McEvoy.

STAFF PRESENT: S. McIntyre, General Manager;

A. Millar, Treasurer;

M. Craig, Manager, Planning and Regulations;

J. Cunderlik, Director, Water Resource Engineering;

J. North, Water Resources Technologist;

E. Levi, Recording-Secretary.

J. Mason called the teleconference to order at 1:38 p.m.

BUSINESS:

J. Mason advised Item # 7 and Item # 5 would be switched to allow for the Board to go in-camera at the end of the meeting to discuss topics contained in Item # 5.

1. **B04/15/20-1**

MOVED BY: C. Lowry
SECONDED BY: F. Campbell

Resolved, That the Agenda for the April 15, 2020 Board of Directors Meeting be adopted as amended.

"CARRIED"

2. Watershed Condition and Outlook

J. North noted that flows have peaked and are beginning to drop in the Mississippi River and

MVCA Board of Directors Meeting May 20, 2020 Mississippi Valley Conservation Authority Board of Directors Teleconference April 15, 2020

tributaries. She commented that it was an average spring. She advised that a flood watch was still in effect for Dalhousie Lake and that the water should recede in next couple weeks. She noted that the upper lakes are currently on track to achieve summer levels and that the Authority will do its best to maintain levels for spawning.

3. Approval of Minutes – Board of Directors Meeting February 19, 2020

B04/15/20-2

MOVED BY: J. Atkinson SECONDED BY: C. Lowry

Resolved, That the Minutes of the Mississippi Valley Conservation Authority Board of Directors meeting held February 19, 2020 be received and approved as printed.

"CARRIED"

4. <u>Business Arising</u>

J. Karau asked for an update on the legal obligations of MVCA in regards to the Mill of Kintail. S. McIntyre advised that the courts have shut down for now so the judge's interpretation is somewhat in limbo at the moment. She advised that the lawyer has been contacted to provide a checklist of items that may be required by the courts when sessions do resume.

5. Kashwakamak Lake Dam Project

- S. McIntyre introduced Juraj Cunderlik, the new Director of Water Resources Engineering.
- J. Cunderlik reviewed Staff Report #3056/20, attached. He noted that the cost to repair the weir was found to have increased to \$300,000 in 2019 from the original estimate of \$96,000 in 2016. He advised that even if the repair went ahead with the new pricing, the whole structure would still need to be replaced within 5 years. Staff is seeking approval to proceed with a risk assessment study to help determine if the repair should proceed or if the Authority can move directly to replacement.
- J. Inglis asked what the consulting firm had been paid in 2016. S. McIntyre advised that they had been paid roughly \$19,000 to prepare the detailed design for repairing the dam. She noted that the same firm could not provide the risk assessment as it's not within the scope of the services offered by the consulting firm.
- S. McIntyre advised that the Board will receive the results of the risk assessment at the meeting in May, as well as information on whether the province has approved the project for 50% funding through the WECI program.

B04/15/20-3

MOVED BY: J. Karau SECONDED BY: T. Fritz

Resolved, That the Board approve allocation of \$25,000 from the Kashwakamak Lake Dam capital budget towards completion of a Risk Assessment of the weir.

"CARRIED"

Board of Directors Teleconference April 15, 2020

6. <u>Lower Mississippi River Flood Plain Mapping Study</u>

M. Craig reviewed Staff Report # 3054/20 summarizing the analysis completed and findings document in the study report. He reviewed maps addressing changes to the flood plain mapping in major tributaries and downstream of Carleton Place to the Mississippi River's confluence with the Ottawa River. He noted the study report was a very large document, so it was not on the MVCA website, but is available upon request.

B04/15/20-4

MOVED BY: C. Lowry SECONDED BY: J. Inglis

Resolved, That the Board of Directors adopt the report Lower Mississippi River Flood Plain Mapping Study dated September 2019 and the associated GIS-based flood hazard limit lines and flood plain maps as the delineation of areas along the Lower Mississippi River system that are susceptible to flooding during the Regional flood standard as defined in Schedule 1 of the Ontario Regulation 153/06; and that the report, maps and Regulation Limit be used in the implementation of Ontario Regulation 153/06.

"CARRIED"

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7. <u>Epidemic/Pandemic Preparedness and Response Plan</u>

- S. McIntyre reviewed Staff Report #3052/20, attached. She noted this was a revision to the document provided at the March teleconference. She advised that the staff were seeking official approval of the pandemic management approach.
- S. McIntyre commented on the regular monitoring of what the Authority can do to mitigate risk with the constant changes during the pandemic. She advised that the Eastern Ontario GMs are meeting twice weekly to keep up to date with what each authority is doing. She noted there is not a unanimous approach amongst Ontario CAs given different geographical locations, operational requirements and municipal responses.
- S. McIntyre commented that most staff are working remotely, when possible. She advised field staff have divided into two teams and alternating work weeks. People who don't have productive time have been asked to exhaust their leave banks, but if they run out, they will be given paid leave as approved in-principle by the Board in March.
- F. Campbell asked how many contract employees would benefit from the 2-week sick leave. S. McIntyre stated four, two of whom had already used days when they became symptomatic.

B04/15/20-5

MOVED BY: J. Karau

SECONDED BY: E. El-Chantiry

Resolved, That the Board

- 1. Approve the Epidemic/Pandemic Preparedness and Response Plan set out in Staff Report 3052/20
- 2. Approve allocation of 2-weeks paid sick leave for 2020 to contract staff who do not have such leave

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- 3. Approve provision of one or more staff with Paid Declared Emergency Leave, as needed.
- 4. Direct the GM to review the scope of powers and actions of peers under emergency conditions and report back with recommendations to the Board.

"CARRIED"

8. <u>Budget Control Report</u>

A. Millar reviewed Staff Report #3053/20 that addressed year-to-date results compared to the approved 2020 budget and to provide initial year-end projections given the pandemic scenario. She noted the authority is on target for first quarter. Revenues were strong over the winter months and the province has confirmed that the Authority will receive the same amount of approximately \$128,000 in 2020 as it did in 2019.

A. Millar highlighted the revenue areas that may be at risk due to the pandemic and compensating savings, as listed in the staff report. She advised that there is currently a projected deficit of \$158,000. She advised that at the end of 2019 a surplus of \$199,000 was placed into the operating reserve which could affect the predicted \$15,000 deficit in 2020.

B04/15/20-6

MOVED BY: E. El-Chantiry SECONDED BY: C. Lowry

Resolved, That the committee move to in-camera session for discussion of labour relations or employee negotiations.

"CARRIED"

B04/15/20-7

MOVED BY: E. El-Chantiry

SECONDED BY: T. Fritz

Resolved, That the committee move out of in-camera discussions.

"CARRIED"

J. Mason stated that a closed meeting was held. There was a discussion regarding labour or employee related matters and there is nothing to report.

ADJOURNMENT

The meeting was adjourned at 3:00 p.m.

B04/15/20-3

MOVED BY: F. Campbell SECONDED BY: B. Holmes

Resolved, That the Board of Directors meeting be adjourned.

"CARRIED"

MISSISSIPPI VALLEY CONSERVATION AUTHORITY

BOARD OF DIRECTORS SPECIAL TELECONFERENCE

Mississippi Valley Conservation Centre

MINUTES

April 15, 2020

Carleton Place

MEMBERS PARTICIPATING: J.

J. Mason, Chair

G. Gower, Vice-Chair;

J. Atkinson;F. Campbell;E. El-Chantiry;

T. Fritz;
B. Holmes;
J. Inglis;
J. Karau;
W. King;
P. Kehoe;
C. Lowry;
G. McEvoy;
P. Sweetnam;
K. Thompson.

MEMBERS UNAVILABLE: E. Burke;

R. Darling.

STAFF PRESENT: S. McIntyre, General Manager;

E. Levi, Recording-Secretary.

J. Mason called the teleconference to order at 1:04 p.m.

BUSINESS:

S. McIntyre advised members that the meeting will be recorded and posted on the website for public transparency.

1. **B04/15/20-1**

MOVED BY: J. Atkinson SECONDED BY: E. El-Chantiry

Resolved, That the Agenda for the April 15, 2020 Special Board Meeting be adopted

as presented.

"CARRIED"

- 2. Administrative By-Law Amendment to Implement Ministerial Directive
 - S. McIntyre reviewed Staff Report #3055/20 regarding the March 26, 2020 Ministerial directive to allow electronic meetings and establishment of an Executive Committee during emergencies. She presented the proposed changes to the Administrative By-Law and noted three minor typos.

J. Karau questioned the necessity of the executive committee to have all the powers underlined in Attachment 3 of the report. S. McIntyre noted that the intent is not for the committee to use the extreme powers of what the items would allow, but provide the GM with input and support where needed, particularly in situations where electronic communication is limited. G. Gower commented on the prudence of the proposed changes so that if circumstances do arise for emergency reasons, then the executive committee would be able to make decisions to allow MVCA to continue to operate, especially in the event of quorum of the full Board can't be achieved.

Members agreed that the executive committee can proceed with the recommended powers, but every effort should be made to meet as a complete Board first.

B04/15/20-2

MOVED BY: T. Fritz

SECONDED BY: E. El-Chantiry

Resolved, That the Board approve amendment of the MVCA Administrative By-Laws as set out in Attachment 1 of Staff Report #3055/20.

"CARRIED"

ADJOURNMENT

The meeting was adjourned at 1:37 p.m.

B04/15/20-3

MOVED BY: E. El-Chantiry SECONDED BY: B. Holmes

Resolved, That the Board of Directors meeting be adjourned.

"CARRIED"

"E. Levi, Recording Secretary

J. Mason, Chair"

REPORT 3057			
то:	Board of Directors, Mississippi Valley Conservation Authority		
FROM:	Juraj Cunderlik, Director, Water Resources Engineering		
RE:	Kashwakamak Lake Dam Risk Assessment Results		
DATE:	May 13, 2020		

Recommendations:

That the Board direct staff to:

- a) Postpone major repair of the Kashwakamak Lake Dam overflow weir for up to five years;
- b) Carry out topo-bathymetric survey and underwater dam inspection in 2020 and finalize the Dam Safety Review update in 2021; and
- c) Complete an Environmental Assessment and detailed design for replacement of the entire structure within the next five years.

1.0 PURPOSE

The purpose of this report is to summarize the results of the Kashwakamak Lake Dam Risk Assessment study that was conducted in April 2020. The goal of the study was to confirm or refute the need for an extensive and costly repair of the overflow weir and determine the potential risk of postponing the repair for up to 5 years.

2.0 BACKGROUND

A 2016 study of the Kashwakamak Lake Dam recommended repair of the weir at an estimated cost of \$96,000. In December 2019, field work carried out during detailed design of the repair found that the weir required more extensive work than originally estimated, and the cost estimate increased to approximately \$300,000.

Given that the entire structure is slated for replacement within 5-years at an estimated cost of \$990,000 (2006 CND), the rational of investing so much in the short-term was questioned. In response, MVCA retained Hatch Ltd. to perform a structural assessment of the Kashwakamak Lake Dam to evaluate risks associated with continuing operation of the Dam until its replacement.

3.0 RISK ASSESSMENT RESULTS

The engineering study "Assessment of the Kashwakamak Lake Dam Safety Risks" was completed by Hatch Ltd. in April 2020. The study was performed in accordance with the Canadian Dam Association (CDA) dam safety guidelines and best practices summarized in technical bulletins of the Ministry of Natural Resources and Forestry (MNRF) Lakes and Rivers Improvement Act (LRIA).

The risk assessment was performed for summer, flood, and post-earthquake conditions considering structural failures at the base of the weir and along the deteriorated horizontal lift joint. The study used assessment tools used by both MNRF and Hatch Ltd. The MNRF approach determines the Factors of Safety (FOS) for each condition and compares it against recommendations of the MNRF. Hatch's proprietary tool uses probabilistic modeling to help quantify likelihood of failure. The main findings of the study are summarized below:

- <u>Site inspection</u>: observed defects do not appear to be structural and are not expected to compromise the safety or performance of the dam within the next five years. A dam inspection was conducted for all water retaining structures including the saddle dam, spillway structure, overflow weir, and the right abutment of the overflow weir. In general, the saddle dam, spillway, and right abutment concrete was observed to be in fair to good condition. A significant level of deterioration has occurred along one horizontal lift joint in the center monolith of the overflow weir with several seepage points along the joint, but is not expected to impact performance or safety.
- Hazard Potential Classification: the dam should be reclassified as a structure having
 MODERATE Incremental Hazard Potential. During the 2006 Dam Safety Review (DSR),
 the Kashwakamak Lake Dam was classified as a LOW Incremental Hazard Potential
 Classification (IHPC) structure. A preliminary consequence analysis completed during
 the April study revealed more significant economical and environmental impacts of dam
 failure suggesting that the dam has a higher (moderate) IHPC.
- Standards Based Assessment: structure meets or exceeds the recommendations of the MNRF for both LOW and MODERATE IHPC structures when updated sheer resistance parameters were applied. The shear resistance parameters defined by Trow in 2006 found that the stability of the weir met or exceeded the recommendations of the MNRF for both low and moderate IHPC structures, except for the normal summer loading condition which was found to be marginally below the recommended minimum value. However, based upon current practice, the parameters assumed by Trow were found to be overly conservative for assessment of concrete gravity dams and were updated for this analysis. With the updated parameters the stability of the weir met MNRF recommendations for normal summer loading condition.

- <u>Probability of Dam Failure</u>: Kashwakamak Lake Dam meets Canada Dam Association thresholds. The estimated probability of failure for the Kashwakamak overflow weir was calculated to be an order of magnitude below generally accepted tolerable limits and well below the upper societal threshold for tolerable risk defined by the Canadian Dam Association.
- Risk Assessment: continued operation over the next five years in accordance with historic practices meets industry accepted risk thresholds. An analysis of the probability of dam failure against incremental economic losses found that the overflow weir meets the basic safety objective threshold and industry accepted risk standards for potential economic loses.

4.0 CONCLUSION

The results of this assessment indicate that major interim stabilization measures are not needed within the next 5 years provided that MVCA continues current routine maintenance and dam condition monitoring, and does not change current operating procedures that might impact the safety of the structure.

5.0 NEXT STEPS

The following workplan is proposed for the Kashwakamak Lake Dam replacement capital project for the next 5 years:

- 1. Continue with routine dam maintenance and inspection:
 - a. Provide regular dam maintenance as specified in the dam operation manual;
 - b. Undertake annual visual dam inspections and document results;
 - c. Inspect dam after major all flood events and document results.
- 2. Complete a topo-bathymetric survey of downstream areas that may potentially be affected by dam failure.
- 3. Complete a Dam Safety Review (DSR) update for the Kashwakamak Dam. The last DSR for this dam was performed in 2006, prior to the publication of the current CDA and MNRF dam safety technical guidelines, and is due for an update. The DSR will address:
 - a. A comprehensive inspection of all water retaining structures of the dam, including an underwater inspection;
 - b. An update of shear resistance parameters for the dam;
 - Detailed dam breach inundation mapping and consequence analysis;
 - d. An assessment and update of the current IHPC for the dam;
 - e. An update of inflow design flood (IDF) and design basis earthquake (DBE);
 - f. Confirmation of interim minor repairs, including joint repair and resurfacing of the concrete structure; and

- g. Establishment of timelines for dam replacement.
- 4. Complete an Environmental Assessment (EA) study for the Kashwakamak Dam replacement. The EA will address:
 - a. Baseline environmental inventory;
 - b. Development of dam replacement alternatives; and
 - c. Evaluation of alternatives and environmental impacts.
- 5. Implement the dam replacement project:
 - a. Detailed dam design;
 - b. Permits and approvals;
 - c. Dam construction;
 - d. Site restoration; and
 - e. Monitoring and maintenance.

REPOI	RT 3058/20
то:	The Chair and Members of the Mississippi Valley Conservation Authority Board of Directors
FROM:	Matt Craig, Manager, Planning and Regulations
RE:	Ontario Regulation 153/06 Permits Development, Interference with Wetlands and Alterations to Shorelines and Watercourses
DATE:	May 11, 2020

1.0 PURPOSE

The purpose of this report is to provide the Board with a summary of permits issued over the current reporting period: November 27, 2019 to May 11, 2020 (refer to Attachment 1 for details.) Permit applications are reviewed for control of flooding, erosion, pollution, and the conservation of land. Wetlands are regulated to ensure the protection of their hydrologic and ecological functions.

2.0 UPDATE

MVCA issued 71 permits during the reporting period, as summarized below. (Note: some permits may involve more than one type of use.) Forty (40) applications were received over the same period last year.

Permits Issued	
Shoreline	12
New Building/Raising	20
Wetland	12
Septic	5
Culverts	9
Other (decks, additions, fill)	10
	71

Based upon ongoing queries and applications to date, we expect permit activity to remain above average in 2020 as landowners continue to make improvements/repairs to their properties due to flood damage.



PERMITS ISSUED FOR 27 NOV 2019 TO 11 MAY 2020 FOR ALL MUNICIPALITIES.

MVCA Board of Directors Meeting

May 20, 2020

Mississippi Valley

onservation Authority

Row	CAID	Approved	Permit No.	Expiry	Municipality	Water Body	
1	RBWPM-485	Mar 06,2020	W20/018	Mar 06,2022	BECKWITH	Mississippi Lake	
S	Street / Lot/ Con	: 129 Elm Stree	et				
	Description	: Raise and Flo	odproof an Ex	kisting Cottage w	ithin the Regulator	y Flood Plain of Mississippi Lake	
2	RBWPM-486	Feb 04,2020	W20/009	Feb 04,2022	BECKWITH	Wetland	
S	Street / Lot/ Con	: 102 Heron La	ne / LOT 3 / (CON 8 and 9			
	Description	: Install a Sept	ic System with	nin the 120 m Re	gulation Limit of a	Provincially Significant Wetland	
3	RBWPM-491	Apr 20,2020	W20/059	Apr 20,2022	BECKWITH		
S	Street / Lot/ Con	: n/a / LOT 26	/ CON 12				
	Description	: Clean Out an	d Lower the M	Moore Branch of t	he Munro Municipa	l Drain	
4	RCFPM-55	Dec 20,2019	W19/292	Dec 20,2021	CENTRAL FRONT	ENAC Wetland	
S	Street / Lot/ Con	: 2910 Henders	son Road, Ard	en / LOT 30 / CC	N 6		
	Description	: Construct a C	abin and Lead	ching Pit within th	ne Regulation Limit	of an Unclassified Wetland	
5	RCFPM-56	Mar 20,2020	W20/008	Mar 20,2022	CENTRAL FRONT	ENAC Wetland	
S	Street / Lot/ Con	: 2417 Zealand	Road / LOT	15 / CON 3			
	Description	: Upgrade an E	xisting Roadv	vay for a New En	trance to an Aggre	gate Pit Through a Wetland	
6	RCFVL-1	Feb 04,2020	W20/013	Feb 04,2020	CENTRAL FRONT	ENAC Bass Lake	
S	Street / Lot/ Con	: 1102 DUNCAI	N LANE / LOT	PT 12 / CON 6			
		Diameter 6	Matarial and	C'L - Coo d'o o collis	!n M/slamda and al	ong the Shoreline of Bass Lake	

	MVCA Board o	of Directors Meetin	g				
-	PPM-80	Mar 09,2020	W20/035	Mar 09,2022	CARLETON PLACE	Missisippi River	Page 14 of 37
Street	t / Lot/ Con	: Lake Ave We	st and Mississip	pi Road			
	Description	: Permit Applic	ation to Install (Gas Pipeline wit	thin the Regulation Limi	t of the Mississippi River	
8 RFT	ΓPM-261	Mar 06,2020	W19/193	Mar 06,2022	OTTAWA	Ottawa River	
Street	t / Lot/ Con	: 139 Lighthou	se Lane / LOT 2	27 / CON 06			
	Description	: Raise Existinç	g Dwelling within	n the Regulator	y Flood Plain of the Ott	awa River	
0 DET		D = 11 0010	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	D = 11 0001	OTTANA/A	Ollows Birms	
	ГРМ-266	Dec 11,2019		Dec 11,2021	OTTAWA	Ottawa River	
			d Drive, Fitzroy				
	Description	: Raise the Dri	veway on Prope	erty within the R	Regulatory Flood Plain o	f the Ottawa River	
10 RFT	ГРМ-267	Feb 07,2020	\M20/020	Feb 07,2022	OTTAWA	Trib Of Constance	
10 101	11 IVI-207	160 07,2020	VV20/020	160 07,2022	OTTAWA	Creek	
Street	t / Lot/ Con	: Thomas A Do	lan Parkway, Bı	urnt Lands Road	d, Fitzroy Street		
	Description	: Replacement	of 8 Road Culve	erts in the City	of Ottawa		
11 RFT	ГРМ-268	Apr 15,2020	W20/032	Apr 15,2022	OTTAWA	Wetland	
Street	t / Lot/ Con	: Ottawa Road	29 / LOT 23, 24	4 and 25 / CON	1		
	Description	: Infill and Con	npensate For 4.4	4 ha of Wetland	d on Ontario Power Gen	eration Lands	
12 RFT	ГРМ-269	Apr 01,2020	W20/053	Apr 01,2022	OTTAWA	Watercourse	
Street	t / Lot/ Con	: Ottawa Road	29 / LOT 23, 24	4 and 25 / CON	1		
	Description	: Replace an E	xisting Culvert a	and Install a Ne	w Culvert on Ontario Po	wer Generation Lands	
13 RGL	_PM-109	Jan 29,2020	W20/005	Jan 29,2022	OTTAWA	Hazeldean Drain	
Street	t / Lot/ Con	: West side of	Westridge Road	I / LOT 21 & 22	/ CON 10 & 11		
	Description	: Top of Bank/	Side Slope Brusl	hing and Bottor	m Cleanout		
14 RGL	LPM-110	Jan 30,2020	W20/007	Jan 30,2022	OTTAWA	Carp Creek	
Street	t / Lot/ Con	: 159 Old Colo	ny Road / LOT 3	32 / CON 11			

Description: Construct a Pedestrian Bridge within the Regulatory Floodplain, Meander Belt and Regulation Limit of Carp Creek

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15	RGLPM-111	May 04,2020	W20/071	May 04,2022	OTTAWA	Poole Creek	Page 15 of 37
	Street / Lot/ Con:	5 Orchard Dr	ive / LOT 26 an	d 27 / CON 11			
	Description:	Place Fill and	Construct a Be	rm within the R	egulation Limit of Poole	Creek	
	RHTPM-126	Dec 09,2019		Dec 09,2021	OTTAWA	Wetland	
	Street / Lot/ Con:	4039 Old Alm	nonte Road, We	st Carleton / LC	OT 9 / CON 11		
	Description:	Construct a E Complex	Owelling and Se	ptic System witl	hin the Regulation Limit	of Manion Corners (Long Swamp) Provincially Signification	ant Wetland
17	RHTPM-127	Dec 05,2019	W19/282	Dec 05,2021	OTTAWA	Wetland	
	Street / Lot/ Con:	155 Lady Slip	per Way, Carp				
	Description:	Permit to Bui	ld a Gazebo wit	hin the Regulat	ion Limit of the Huntley	Provincially Significant Wetland (PSW) and an Unevalu	uated Wetland
18	RHTPM-128	Feb 03,2020	W19/283	Feb 03,2022	OTTAWA	Trib Of Carp River	
	Street / Lot/ Con:	1500 Thomas	s Argue Road, C	arp			
	Description:	Realignment	of Two Waterco	ourse			
	RHTPM-131	Mar 19,2020		Mar 19,2022	OTTAWA	Wetland	
	Street / Lot/ Con:	159 Rocky Cr	eek Way / LOT	14 / CON 7			
	Description:	Construction	of House, Gara	ge and Septic S	ystem within the Regula	ition Limit of a Wetland	
20	RHTPM-132	Mar 17,2020	W20/042	Mar 17,2022	OTTAWA	Feedmill Creek	
	Street / Lot/ Con:	195 Huntmar	Drive / LOT 1	and 2 / CON 1			
	Description:	Place Fill and	d Construct a Be	erm within Regu	ulatory Limit of Feedmill	Creek	
21	RLHPM-217	Jan 15,2020	W19/069	Jan 15,2021	LANARK HIGHLANDS	Dalhousie Lake	
	Street / Lot/ Con:	203 Maple Ho	ollow Dr / LOT	13 / CON 12			
	Description:	Raise an Exis	ting Dwelling w	ithin the Regula	atory Floodplain of Dalho	ousie Lake	
22	RLHPM-232	Nov 28,2019	W19/252	Nov 29,2021	LANARK HIGHLANDS	Dalhousie Lake	
	Street / Lot/ Con:	633 North Sh	ore Road, Mc D	onalds Corners	/ LOT 14 / CON 10		

Description: Adding 2 Detached Auxiliary Buildings within the Regulatory Flood Plain of Dalhousie Lake

MVCA E		Directors Meeting	g			
23 RLHPM-23		Dec 11,2019	W19/284	Dec 11,2021	LANARK HIGHLANDS	Dahousie Lake Page 16 of 37
Street / Lot	/ Con:	232 Hall Shor	re Road, Mc Do	onalds Corners /	LOT 10 / CON 9	
Descri	iption:	Install a New	Septic System	within the Regu	ulatory Flood Plain of Da	Ihousie Lake
24 RLHPM-23	35	Dec 16,2019	W19/288		LANARK HIGHLANDS	Mississippi River
Street / Lot	/ Con:	567 River Dri	ve / LOT part	ot 4 / CON 5		
Descri	iption:	Permit to Ins	tall a Septic Sy	stem within the	Regulation Limit of the	Mississippi River
25 RLHPM-23	27	Fab 20 2020	W/20/027	Fab 20 2022		Clude Diver
		Feb 28,2020		Feb 28,2022	LANARK HIGHLANDS	Ciyae River
			/ LOT 1 / CON			
Descri	iption:	Replacement	of a Bridge Ov	ver the Clyde Riv	ver	
26 RLWPM-3		Jan 24,2020	W20/010	Jan 24,2020	LANARK HIGHLANDS	Various
		oa,_o_o	1120,010	04.1.2.1/2020		Watercourses
Street / Lot	/ Con:	Tatlock Road	, Wolfgrove Ro	ad, Elphin Mabe	rly Road	
Descri	iption:	Permit to Rep	olace Existing (Culverts at Vario	us Locations	
27 RMMVL-4		Feb 06,2020	W20/022	Feb 06,2022	MISSISSIPPI MILLS	Wetland
Street / Lot	/ Con:	146 MAPLE D	RIVE / LOT PA	RT 23 / CON 1		
Descri		Unauthorized of a PSW	Development	within the Regu	lation Limit of a Wetland	d, Construction of an Open Addition onto Existing Dwelling within 120m
28 RMRPM-6	3	Dec 16,2019	W19/285	Dec 16,2021	OTTAWA	Shirleys Brook
Street / Lot	/ Con:	Shirley's Broo	ok near 335 Sa	ndhill Road / LO	T 10 / CON 4	
Descri	iption:	Removal of a	Concrete Culv	ert within the Re	egulatory Flood Plain an	d Along the Shoreline of Shirley's Brook
29 RMRPM-6	4	Feb 18,2020	W19/291	Feb 18,2022	OTTAWA	Watercourse
Street / Lot	/ Con:	John Aselford	l Drive			
Descri	iption:	Replacement	of a Culvert o	n an Unnamed V	Vatercourse	
30 RMRPM-6	5	Jan 17,2020	W20/003	Jan 17,2022	OTTAWA	Shirleys Brook
Street / Lot	/ Con:	Shirley's Broo	ke Drive and S	Sand Hill Road /	LOT 9 / CON 4	

Description: Installing a Gas Pipeline within the Regulatory Floodplain and Regulation Limit of Shirley's Brook

	MVCA Board of May 20, 2020	f Directors Meetin	g				
31	RMRPM-69	Jan 29,2020	W20/011	Jan 29,2022	OTTAWA	Watts Creek Page 17 of 3.	7
Ş	Street / Lot/ Con:	Easement fro	m Herzberg Ro	oad / LOT 2, 3 &	4 / CON 1		
	Description:	Construct the	Kanata North	Sewer within th	e Regulation Limit and F	Regulatory Floodplain of Watt's Creek and Kizell Drain	
32	RMRPM-70	Jan 23,2020	W20/012	Jan 23,2022	OTTAWA	Wetland	
9	Street / Lot/ Con:	2565 Dunrob	in Road / LOT 2	25 / CON 3			
	Description:	To Build a Tv	vo-Storev Buildi	ing and Associat	ted Septic System withir	the Regulation Limit of a Wetland	
	·		,	J	. ,		
33	RMRPM-71	Feb 24,2020	W20/002	Feb 24,2022	OTTAWA	Carp River	
Ş	Street / Lot/ Con:	450 Huntmar	Drive / LOT 3	/ CON 1			
	Description:			Fill and for the C	Construction of a Stormy	vater Management Facility within the Regulation Limit and Flood P	lain of
		the Carp Rive					
34	RMRPM-73	Mar 12,2020	W20/043	Mar 12,2022	OTTAWA	Ottawa River	
S	Street / Lot/ Con:	1620 6th Line	e Road, Dunrob	in / LOT 16 / C0	ON 7		
	Description:	Reconstruct a	a Cabin and De	ck within the Er	osion Hazard of the Otta	awa River	
35	RMRPM-75	Mar 19,2020	W20/047	Mar 01,2021	OTTAWA	Carp River	
5	Street / Lot/ Con:	Campeau Dri	ve / LOT 03 / C	ON 01			
	Description:		of Temporary S ermit #W19/04	•	nin the Regulation Limit	and Regulatory Flood Plain of the Carp River as part of Campeau	Drive
36	RNFPM-168	Apr 24,2020	W20/056	Apr 24,2022	NORTH FRONTENAC		
9	Street / Lot/ Con:	Road Allowar	nce				
	Description:	Replacement	of Exisiting Cu	lverts, Roadside	Ditching and Rehabilita	tion of Harlowe and Myers Cave Road	
37	RNFVL-3	Jan 24,2020	W19/286	Jan 24,2022	NORTH FRONTENAC	Marble Lake	
Ş	Street / Lot/ Con:	1011 Perry R	oad / LOT Pt 22	2 / CON 7			
	Description:	Unauthorized	I Fill Placement	and Site Gradin	g within the Regulation	Limit of a Wetland	
38	ROWPM-5	Feb 14,2020	W20/025	Feb 14,2022	OTTAWA	Watercourse	
Ş	Street / Lot/ Con:	Barlow Cres,	Vances Side Ro	d, Breezy Height	ts Rd, John Shaw Rd and	d Old Second Line Rd	

Description: Culvert Replacements on Barlow Cres, Vances Side Rd, John Shaw Rd, Breezy Heights Rd and Old Second Line Rd

MVCA Boar May 20, 202	d of Directors Meeting				
39 RTBPM-825	Dec 19,2019 W18/131	Dec 19,2021	OTTAWA	Ottawa River	Page 18 of 37
Street / Lot/ Co	on: 858 Bayview Drive / LOT	19 / CON 04			
Description	on: Reconstruct a Dwelling an	d Septic System a	and Raise the I	Driveway within the Regulatory (1:100 Year)	Flood Plain of the Ottawa River
			0.77.4144	au Di	
40 RTBPM-867	Mar 30,2020 W19/122	Mar 30,2022	OTTAWA	Ottawa River	
	on: 922 Bayview Drive / LOT				
Description	on: Reconstruct an Existing D	welling and Instal	II a New Septic	System within the Regulatory Flood Plain of	the Ottawa River
41 RTBPM-889	May 06,2020 W19/178	May 06,2022	OTTAWA	Ottawa River	
Street / Lot/ Co	on: 653 Bayview Drive / LOT :	39			
Description	on: Reconstruct Dwelling and	Septic System wi	thin the Regula	atory Flood Plain of the Ottawa River	
·	J	. 3	3	,	
42 RTBPM-908	Dec 04,2019 W19/232	Dec 04,2021	OTTAWA	Ottawa River	
Street / Lot/ Co	on: 554 Bayview Drive, Wood	lawn / LOT 2 / CC	ON Plan 416		
Description	on: Alteration to Shoreline to	Replace Existing F	Retaining Wall	with Armour Stone Retaining Wall along the	Shoreline of the Ottawa River
43 RTBPM-909	Dec 04,2019 W19/233	Dec 04,2021	OTTAWA	Ottawa River	
Street / Lot/ Co	on: 558 Bayview Drive, Wood	lawn / LOT 3 / CC	ON Plan 416		
Description	on: Alteration to Shoreline to	Replace Existing F	Retaining Wall	with Armour Stone Retaining Wall along the	Shoreline of the Ottawa River
44 RTBPM-910	Dec 06,2019 W19/234	Dec 06,2021	OTTAWA	Ottawa River	
Street / Lot/ Co	on: 550 Bayview Drive Woodla	awn / LOT 1			
Description	on: Alteration to Shoreline to	Replace Existing F	Retaining Wall	with Armour Stone Retaining Wall along the	Shoreline of the Ottawa River
45 RTBPM-915	Mar 03,2020 W19/246	Mar 03,2022	OTTAWA	Wetland	
Street / Lot/ Co	on: 105 Constance Creek Driv	e, Dunrobin / LOT	Γ1/CON4		
Description	on: Replace an Existing Deck	within the Regula	tion Limit of a	Provincially Significant Wetland	
46 RTBPM-923	Jan 16,2020 W19/269	Jan 16,2022	OTTAWA	Ottawa River	
	on: 3808 Armitage Ave / CON				
23.23.7.23.7.3.					

Description: Alteration to Shoreline to Construct Armour Stone Retaining Wall Along the Shoreline of the Ottawa River

	MVCA Board of	Directors Meeting	g				
47	RTBPM-924	Dec 20,2019	W19/270	Dec 20,2021	OTTAWA	Ottawa River	Page 19 of 37
,	Street / Lot/ Con:	759 Bayview	Dr, Woodlawn	/ LOT 89			
	Description:	Reconstruct [Owelling and Re	eplace Septic Sy	stem within the Regula	tory Flood Plain of the Ottawa River	
48	RTBPM-925	Feb 24,2020		Feb 24,2022	OTTAWA	Ottawa River	
,	Street / Lot/ Con:	782 Bayview	Drive, Woodlav	vn / LOT 37 and	I 38		
	Description:	Reconstruct [Owelling and Se	eptic System wit	hin the Regulatory Floo	d Plain of the Ottawa River	
40	DTDDM 000	A = = 22 2020	M40/27/	A 22 2022	OTTANA/A	Ottowa Divers	
49	RTBPM-928	Apr 22,2020		Apr 22,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	, in the second					
	Description:	Reconstruct [Owelling and Re	eplace Septic Sy	stem within the Regulat	tory Flood Plain of the Ottawa River	
50	RTBPM-929	Dec 13,2019	\M/10/281	Dec 13,2021	OTTAWA	Ottawa River	
				·	OTTAWA	Ottawa Rivei	
•	Street / Lot/ Con:				or the transfer of the Charles III		
	Description:	Permit to Ins	tali a Sewage L	Jisposai System	within a Stable Slope H	azard	
51	RTBPM-930	Dec 16,2019	W19/287	Dec 16,2021	OTTAWA	Ottawa River	
	Street / Lot/ Con:	270 Ballie Ave	e, Woodlawn /	LOT 2			
					g Existing Retaining Wal	I	
52	RTBPM-931	Jan 28,2020		Jan 28,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:				OTTAWA	Ottawa Nivel	
		, ,			otomo within the Dogwlot	town Flood Plain of the Ottown Phyon	
	·		-			tory Flood Plain of the Ottawa River	
53	RTBPM-932	Jan 27,2020		Jan 27,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	-					
	Description:	Reconstruct [Dwelling and Re	eplace Septic Sy	stem within the Regula	tory Flood Plain of the Ottawa River	
54	RTBPM-933	Apr 01,2020	W20/001	Apr 01,2022	OTTAWA	Ottawa River	
,	Street / Lot/ Con:	127 Lane Stre	eet / LOT 74 &	75			

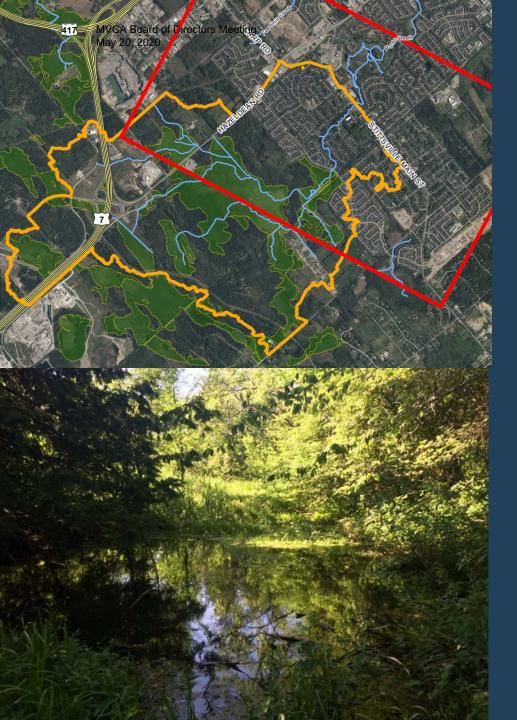
Description: Floodproof a Septic Tank within the Regulatory Flood Plain of the Ottawa River

	MVCA Board of	Directors Meetin	g				
55	IVICIT ZV. ZVZV	Jan 28,2020	W20/004	Jan 28,2022	OTTAWA	Ottawa River	Page 20 of 37
	Street / Lot/ Con:	934 Bayview	Drive, Woodlav	wn			
	Description:	Raise Existing	g Dwelling with	New Foundatio	n within the Regulator	y Flood Plain of the Ottawa River	
56	RTBPM-936	Feb 13,2020	W20/014	Feb 13,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	424 Bayview	Drive				
	Description:	Alteration to	Shoreline to In	stall Armour Sto	one Retaining Wall alon	g the Shoreline of the Ottawa River	
	DTDDM 027	F-1- 12 2020	W20/01F	F-h 12 2022	OTT AVA/A	Ottown Piver	
	RTBPM-937	Feb 13,2020		Feb 13,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	-					
	·				-	g the Shoreline of the Ottawa River	
58		Feb 06,2020		Feb 06,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	534 Bayview	Drive, Woodla	wn / LOT 90 / C	ON V		
	Description:	Alteration to	Shoreline to In	stall Rip Rap Er	osion Protection along	the Shoreline of the Ottawa River	
59	RTBPM-939	Feb 13,2020	W20/023	Feb 13,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	4350 Armitaç	ge Ave				
	Description:	Alteration to	Shoreline to In	stall Armour Sto	one Retaining Wall alon	g the Shoreline of the Ottawa River	
60	RTBPM-941	Apr 15,2020	W20/029	Apr 15,2022	OTTAWA	Ottawa River	
	0	(E(B)	D .				
	Street / Lot/ Con:	-					
	•	·		•	n of the Ottawa River		
61	RTBPM-942	Mar 06,2020	W20/030	Mar 06,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	704 Bayview	Drive				
	Description:	Raise Existing	g Dwelling and	Install New Fou	indation within the Floo	odplain of the Ottawa River	
62	RTBPM-943	Apr 08,2020	W20/031	Apr 08,2022	OTTAWA	Ottawa River	
	Street / Lot/ Con:	800 Bayview	Drive / LOT 19	/ CON 05			

Description: Reconstruct Dwelling and Septic System within the Floodplain of the Ottawa River

	MVCA Board of	Directors Meeting
63	RTBPM-944	Mar 10,2020 W20/033 Mar 10,2022 OTTAWA Ottawa River Page 21 of 37
S	Street / Lot/ Con:	4504 Tranquility Lane / LOT 18 / CON 4
	Description:	Construction of a New Drainage Channel along Tranquility Lane into the Ottawa River
64	RTBPM-946	Mar 11,2020 W20/038 Mar 11,2022 OTTAWA Ottawa River
S	Street / Lot/ Con:	1276 Bayview Drive, Woodlawn / LOT 16 / CON 4
	Description:	Renovation and Addition to an Existing Dwelling Within the Regulation Limit of the Ottawa River
65	RTBPM-947	Apr 08,2020 W20/049 Apr 08,2022 OTTAWA Ottawa River
S	Street / Lot/ Con:	633 Bayview Drive / LOT 18 / CON 05
	Description:	Raise Existing Dwelling with New Foundation and Construct Addition within the Regulatory Flood Plain of the Ottawa River
66	RTBPM-949	Apr 15,2020 W20/055 Apr 15,2022 OTTAWA Ottawa River
S	Street / Lot/ Con:	4222 Armitage Ave
	Description:	Alteration to Shoreline to Address Erosion with the Addition of Fill along the Shoreline of the Ottawa River
67	RTBPM-951	Apr 20,2020 W20/058 Apr 20,2022 OTTAWA Ottawa River
S	Street / Lot/ Con:	750 Bayview Drive / CON 05
	Description:	Raise Driveway and Repair Retaining Wall along the Shoreline of the Ottawa River
68	RTBVL-8	Apr 01,2020 W20/024 Apr 01,2022 OTTAWA Ottawa River
S	Street / Lot/ Con:	709 Bayview Drive / LOT Pt 19 / CON 5
	Description:	Raise a Dwelling and Place Fill for a Fill Apron within the Regulatory Flood Plain of the Ottawa River
69	RTVPM-60	Feb 07,2020 W20/021 Feb 07,2022 TAY VALLEY Wetland
S	Street / Lot/ Con:	314 Maberly Station Road / LOT 14 / CON 7
	Description:	Construct a Dwelling and Install a Septic System within the Regulation Limit of a Provincially Significant Wetland
70	RTVPM-62	May 04,2020 W20/070 May 04,2022 TAY VALLEY Watercourse
S	Street / Lot/ Con:	Lot 8, Concession 9 / LOT 8 / CON 9
	Description:	Permit to Replace Culvert
71	RTVVL-1	Dec 23,2019 W19/290 Dec 23,2021 TAY VALLEY Wetland
S	Street / Lot/ Con:	134 Ennis Road / LOT 19 / CON 10

Description: Unauthorized Development within the Regulation Limit of Bennett Lake Provincially Significant Wetland



Upper Poole Creek Stewardship Project

2019 Work Plan and Accomplishments

Board of Directors

May 20, 2020

Background Upper Poole Creek

- One of a few cold/cool water streams in the City
- Headwaters originate in the Upper Poole Creek Wetland Complex - a Provincially Significant Wetland (PSW).
- Flows north-east through Stittsville and drains into the Carp River.
- Subwatershed study completed in 2000
 - established targets for water quality objectives
 - identified potential impacts of development pressure on the subwatershed.
- Enhanced monitoring and stewardship based on objectives of the subwatershed study.
- MVCA carried out projects in 2014 and 2019
- Funded via development project fees within Upper Poole Creek

2014 Restoration Work

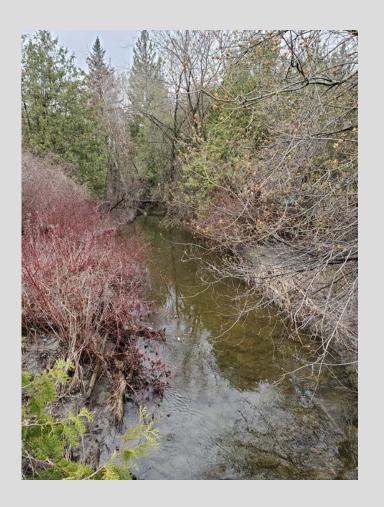
- Plan Review
 - Identified objectives completed and outstanding work
- Shoreline Restoration
 - 4 sites, 210 shrubs
- Blockage Removal
- In-stream Enhancements

 - 3 half log structure sites installed
 Cedar log installed in stream bed
 Repair of existing lunker structure
- Monitoring
 - Ongoing stream assessments through City Stream Watch (2013, 2018)

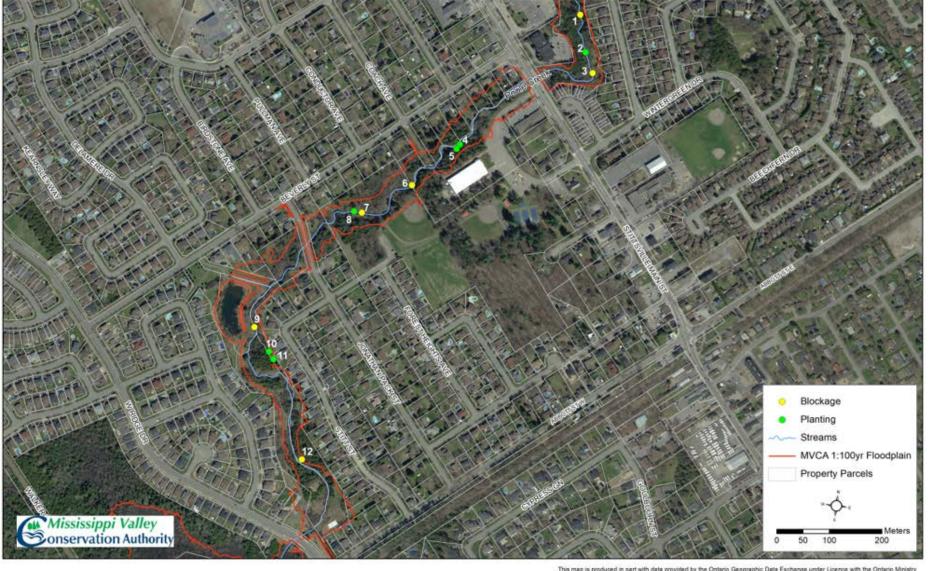


2019 Restoration Plan:

- Review and implement outstanding objectives of the Upper Poole Creek Subwatershed Study and identify stewardship opportunities
- Restore area between Main Street and West Ridge Drive



MVCA Board of Directors Meeting
May 20, 2020 Page 26 of 37



Map of Restoration Activities

2019

This map is produced in part with data provided by the Ontario Geographic Data Exchange under Licence with the Ontario Ministry of Natural Resources and Forestry and the Queen's Printer for Ontario, 2018

2019 restoration and outreach activities

- City Stream Watch (2018)
- Shoreline Restoration
- Invasive Species Removal
- Garbage Clean Up
- Blockage Removal
- In-stream Enhancement
- Stormwater Management Outreach
- Low Impact Development



City Stream Watch

Data collected through City Stream
Watch supported the planning of
shoreline planting sites, habitat
improvements, stream garbage clean
ups, invasive species removal, etc.



Poole Creek 2018 Catchment Report

Monitoring Activity in the City of Ottawa

The City Stream Watch program (CSW) is an in-depth survey of a watercourse where data is collected by wading through the stream and taking detailed observations every 100 meters (m). In 2013, Mississippi Valley Conservation Authority (MVCA) joined the City Stream Watch working group and adopted the program. Since implementing the CSW program, MVCA staff and volunteers have surveyed more than 470 sections across 10 watercourses. This information has fed into the planning of riparian planting sites, habitat improvements, stream garbage pick-ups in Poole Creek and the Carp River, and invasive species removal events.

The CSW Program has three main goals:

- To provide long-term documentation of the aquatic and riparian conditions in our watershed
- To enhance public awareness about the condition and value of freshwater streams through volunteer engagement and the creation of catchment reports
- To encourage community driven restoration projects

When possible, each CSW assessment is enhanced with the application of other monitoring programs such as benthic biomonitoring, fish community sampling, temperature monitoring and assessing headwater drainage features.

Seasonal weather conditions in 2018 resulted in an above average spring flood followed by a drought which lasted through the summer and into the fall. Given the atypical seasonal conditions in 2018, all assessments were subject to the effects of low water and may not reflect the overall health of the systems. With the efforts of MVCA staff and volunteers, 109 sections in two catchments were assessed in 2018.

Poole Creek was previously monitored in 2013 resulting in 28 sections being surveyed. Where possible, this report will reflect on the differences found since our last survey of the creek.

Figure 1 shows the location of the Poole Creek subwatershed within MVCA's City Stream Watch program area.



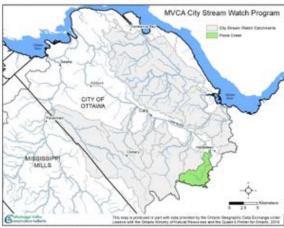


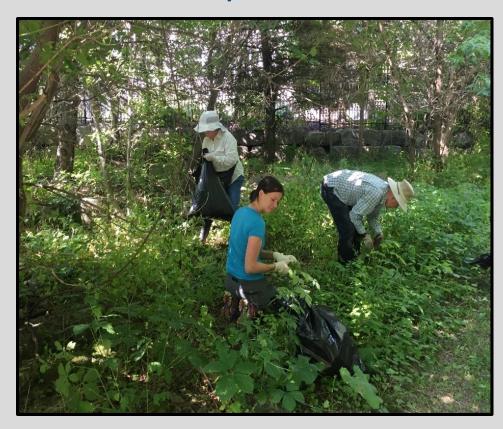
Figure 1: MVCA's City Stream Watch area highlighting the location of the Poole Creek subwatershed.

Shoreline Restoration

- Planting enhancements were completed on 5 sites identified for a total of 90 trees and shrubs.
- Outreach to private landowners for shoreline restoration work.
- An additional 150 trees and shrubs were planted along the outlet of Poole Creek through TD Tree Days with approx. 25 volunteers.



Invasive Species Removal & Clean Up



MVCA staff and 13 volunteers removed garlic mustard and cleaned up garbage, July 2019.



MVCA staff removing multiflora rose, June 2019.

Blockage Removal



Before



After

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In-stream Fish Habitat Enhancement

Stormwater Management Outreach and Education Partnership with Envirocentre

- Outreach booths at the Stittsville Farmer's Market, Public Library and the CARDELREC Recreation Complexcommunication with approx. 100 residents.
- Development and door to door delivery of educational Brochure including a free plant offering to approx. 100 targeted residents.



May 20, 2020





What Can You Do To Manage Runoff On Your Property?

- Go outside during a heavy rain to see how and where the water flows from the eaves, downspouts and paved surfaces.
- Make sure the ground around your house slopes away from your foundation.
- Clean your eavestroughs, especially in the spring and fall.
- ☐ Direct downspouts 2.4m (8ft) away and downslope from your foundation onto a permeable area (lawn or garden).
- Install a rain barrel underneath your downspouts.
- ☐ Create a rain garden or other landscaping that soaks up rain water.
- Keep storm drains clear of debris.
- Consider having sewer backflow prevention valves installed.
- Replace lawn with native grasses and wildflowers. If your property is along the shoreline, do not mow to the water's edge.
- ☐ Reduce hardened/paved surfaces.
- Plant native trees and shrubs, especially along shorelines.



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Stormwater Management Brochure

Stormwater Management Options

- Potential plans for Low Impact Development alongside the Johnny Leroux Arena parking lot.
- The site was monitored during spring freshet to determine flow distribution of run off and the most effective and feasible option.
- Benefits include mitigating the impacts of increased runoff and stormwater pollution, enhancing water quality in the creek.



2020 Reporting & Follow-up

- Draft report shared with City of Ottawa in Dec.
 2019
 - Meeting objectives of the subwatershed study
 - Several objectives will require ongoing action and monitoring (e.g. water quality and stream temperature, plant survival, shoreline erosion, blockages, habitat assessment, invasive species, public education/outreach)
- Spring plant delivery to landowners completed in May 2020
- Potential LID installation in 2020 (COVID-19 dependent)



Upper Poole Creek Restoration Plan



DRAF 1-December 2019

Based on Objectives of the Upper Poole Creek Subwatershed Study MVCA Board of Directors Meeting
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Thank You