



**AGENDA FOR THE  
QUINTE CONSERVATION  
EXECUTIVE BOARD MEETING**

**Date: April 18, 2024**

**Time: 3:30 pm**

**Location: Joe Eberwein Boardroom (Quinte Conservation)**

<b>AGENDA</b>	<b>Pages</b>
1. Call to Order	
• Collection of Personal Information for Board Minutes	
2. Approval of the Agenda (Motion to Approve)	1
3. Approval of the Minutes of the Quinte Conservation Executive Board meeting of March 21, 2024 (Motion to Approve)	2 - 9
4. Business Arising from the Minutes	
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6. Delegations	
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10. 2023-2024 WECl Projects (Motion to Receive)	20 - 32
11. QC Forest Carbon Project Update (Motion to Receive)	33 - 34
12. QC Forest and Federal 30 by 30 Project Update (Motion to Receive)	35 - 36
13. Frink Centre Hi-Lo Bridge Replacement (Motion to Approve)	37 - 39
14. Vehicle Purchase (Motion to Approve)	40 - 59
15. Verbal Report – Changes to Regulations Policy Manual (Motion to Receive)	
16. Other Business	
17. Date and Time of Next Meeting	
• May16, 2024, or earlier at the call of the chair.	
18. Adjournment	



**Pre-Minutes of the meeting of the  
Quinte Conservation Executive Board Meeting**

**Date:** March 21, 2024 3:30pm  
**Location:** Joe Eberwein Boardroom (Quinte Conservation)

**Members Present:** **Brent Taylor** (Twp of Tudor and Cashel), **Carrie West** (Township of Madoc), **Chris Malette** (City of Belleville), **Dave Ogden** (Tyendinaga Township), **Don Kuntze** (City of Quinte West), **Don Stewart** (Stirling and Rawdon Township), **James Flieler** (Municipality of Tweed), **Jamie Zeiman** (Town of Deseronto), **Janice Maynard** (County of Prince Edward), **Kathryn Brown** (City of Belleville), **Krysta-Lee Woodcock** (Stone Mills Township), **Lynn Klages** (Township of Central Frontenac), **Mike Stevens** (Marmora and Lake Municipality), **Norm Roberts** (Township of South Frontenac), **Paul Carr** (City of Belleville)

**Members Absent:** **Bob Norrie** (Town of Greater Napanee), **John Hirsch** (County of Prince Edward), **Kirby Thompson** (Addington Highlands Township), **Mike Kirby** (Centre Hastings Municipality), **Nathan Townend** (Loyalist Township)

**Staff Present:** Brad McNevin (CAO), Christine Phillibert (Water Resources Manager), Amy Dickens (Source Water Protection Coordinator), Catherine Sinclair (Regulations Officer), Christine Phillibert (Water resources Manager), Kristina Hamilton (Corporate Services Assistant), Mary Gunning (Aquatic Science Coordinator), Paul McCoy (Planning and Regulations Manager), Sharlene Richardson (Regulations Officer), Tammy Smith (Corporate Services Manager), Taylor Hermiston (Communications Coordinator)

**1.** Chair called the meeting to order at 4:05 pm.

a. **Notice Regarding Cell Phones**

Cell phones are not permitted to be turned on during the meeting, except in an event of an emergency. If the device is to be left on, it must be announced at the beginning of the meeting.

b. **Collection of Personal Information for Board Minutes**

This is addressed to anyone that is not a board member and/or staff person of Quinte Conservation: Your name will be used in the board meeting minutes and the minutes will become public information after review and approval of the board. If you are present for a delegation or hearing, the context of your presentation will be recorded in the minutes of the board meeting.

**2. Approval of the Agenda**

**MOTION QC-24-023**

**Moved By:** Dave Ogden

**Seconded By:** Krysta Lee Woodcock

THAT, the Agenda for March 21, 2024, Executive Board Meeting be approved.

**CARRIED**

**3. Approval of the Minutes of the Quinte Conservation Executive Board meeting of January 18, 2023.**

**MOTION QC-24-024**

**Moved By:** James Flieler

**Seconded By:** Norm Roberts

THAT, the Minutes from the January 18, 2024 Quinte Conservation Executive Board Meeting be approved.

**CARRIED**

**4. Business Arising from the Minutes**

N/A

**5. Disclosure of Pecuniary Interests**

N/A

**6. Delegations**

N/A

**7. Monthly Permits Summary (Motion to Receive)**

**MOTION QC-24-025**

**Moved By:** Lynn Klages

**Seconded By:** Don Kuntze

THAT, the monthly permits summary for the months of January and February 2024 be received.

**CARRIED**

**8. Monthly Planning Summary (Motion to Receive)**

**MOTION QC-24-026**

**Moved By:** James Flieler

**Seconded By:** Dave Ogden

THAT, the monthly planning summary for the months of January and February 2024 be received.

**CARRIED**

**9. Year End Regulations & Planning Summary 2023 (Motion to Receive)**

**MOTION QC-24-027**

**Moved By:** Paul Carr

**Seconded By:** Dave Ogden

THAT, the year-end regulations and planning summary for 2023 be received.

**CARRIED**

**10. Budget Control (Motion to Approve)**

**MOTION QC-24-028**

**Moved By:** Don Kuntze

**Seconded By:** Jamie Zieman

That the Budget Control Report be approved.

**CARRIED**



**11. Hydro Report (Motion to Approve)**

**MOTION QC-24-029**

**Moved By:** Carrie West

**Seconded By:** Dave Ogden

THAT, the Hydro Report be approved.

**CARRIED**

**12. Update to Conservation Authorities Act, Regulation and QC Policy (Motion to Approve)**

**MOTION QC-24-030**

**Moved By:** Kathryn Brown

**Seconded By:** Lynn Klages

THAT, staff complete the necessary administrative updates to all Quinte Conservation information (website, mapping, technical studies, by-laws, policy, etc.) in accordance with the amended Conservation Authorities Act (CAA) and Ontario Regulation 41/24, be approved.

**CARRIED**

Staff member offered clarification regarding the motion. Board member asked for confirmation on the changes. Staff member clarified that additional information is provided further in the board package that will discuss the changes to the regulation and act.

**13. Delegation of Powers related to Permit Issuance, Cancellation and Hearings (Motion to Approve)**

**MOTION QC-24-031**

**Moved By:** Dave Ogden

**Seconded By:** Norm Roberts

THAT, the Quinte Conservation Executive Board delegate the powers of (1) issuance and extension of permits up to the maximum period of validity and (2) the cancellation of permits, to the Chief Administrative Officer, Senior Staff and Regulations Officers;  
AND THAT, the Quinte Conservation Executive Board be delegated the powers to preside over any hearings regarding (1) the Issuance & Extension of Permits and (2) the Cancellation of Permits;  
AND FURTHER THAT, the Quinte Conservation Executive Board be delegated the powers to preside over any hearings regarding (1) Section 28.1 (Permits), (2) Section 28.1.2 (Mandatory permits, zoning orders) and (3) Section 30.4 (Stop Work Orders);

AND FURTHER THAT, the Quinte Conservation Executive Board delegates the powers of Administrative Reviews (Requests for Reviews) to the Chief Administrative Officer and/or Senior Staff, BE APPROVED.

**CARRIED**

Board member asked for clarification, Staff clarified that we will continue to follow the same process for hearings, cancellations of permits, decision making regarding files, etc. Board member offered further information regarding a local landowner who had cut trees and changed a wetland area, the neighbouring Conservation Authority attended, and laid charges. The CA lost the case and now the landowner is threatening to sue the CA for costs. Board member asked if this could impact Quinte Conservation in the same way. Staff offered that it is possible.

**14. Appointment of Regulations and Enforcement Officers (Motion to Approve)**

**MOTION QC-24-032**

**Moved By:** Krysta Lee Woodcock

**Seconded By:** Dave Ogden

THAT, the Quinte Conservation Executive Board appoints Brad McNevin, Catherine Sinclair, Lindsay Nash, Mark Boone, Paul McCoy, and Sharlene Richardson as Officers (including designation as a Provincial Offences Officer) to enforce regulations made by Quinte Conservation pursuant to section 28 of the Conservation Authorities Act.

AND THAT, the Quinte Conservation Executive Board appoints Brad McNevin, Catherine Sinclair, Jesse Platt, Lindsay Nash, Mark Boone, Mike Burnt, Paul McCoy, and Sharlene Richardson as Officers (including designation as a Provincial Offences Officer) to enforce section 29 of the Conservation Authorities Act.

**CARRIED**

**15. Solar Eclipse Planning (Motion to Approve)**

**MOTION QC-24-033**

**Moved By:** Kathryn Brown

**Seconded By:** Lynn Klages

THAT, the staff report titled "Solar Eclipse Planning", be approved;

AND THAT, staff continue to coordinate with all levels of government and other agencies to ensure effective management of the historic event in QC's watershed;

AND FURTHER THAT, a report be presented to the Board of Directors after the event for information.

**CARRIED**

Board member offered that Hastings County held an emergency exercise and there are concerns of an influx of people. Board member asked who we have been in contact with, staff replied that Municipalities and Emergency Management have been contacted. Staff offered that our properties that are currently opened will remain open, but we will not be opening our properties that are still closed for the season (i.e. Little Bluff and Beaver Meadows). Board member offered that there will be no events planned by the municipalities. Board member commented that he feels that this is fear mongering.

**16. Spring Outlook – Verbal Report (Motion to Receive)**

**MOTION QC-24-034**

**Moved By:** Dave Ogden

**Seconded By:** Jamie Zieman

THAT, the Spring Outlook Report be received.

**CARRIED**

Staff reported on Spring Outlook, conditions are currently higher than normal due to an early freshet. From December – March temperatures were warmer than normal. During the winter more rain fell than snow in many parts of the watershed, the snow that did fall did not stick around due to rain and warm temperatures. During the fall, the groundwater table was low, it has since recovered to normal conditions. Spring rains are needed to continue to replenish the groundwater. There is a very low risk of flooding at this point in time. The peak flows on the Salmon River, Napanee River, and Consecon Creek are the lowest peaks ever recorded. The Moira River at Foxboro peak was the second lowest since 1915, with the lowest occurring in 1931. The long term forecast is calling for slightly more precipitation than average this spring, and a drier summer. Dams need to be monitored to balance reservoir levels and prepare for spring precipitation.

Staff reported the need to prepare for drought.

**17. Staff Report- Depot Lakes Campground Business Plan (Motion to Approve)**

**MOTION QC-24-035**

**Moved By:** Lynn Klages

**Seconded By:** Norm Roberts

THAT, the Depot Lakes Campground Business Plan staff report be approved.

**CARRIED**

Board member commented that he is all for giving the plan the go ahead and wants to make sure we stick to our focus as a Conservation Authority, in the best interest of the water supply and the environment. Has concerns with an influx of people to the property. Staff offered that it

is part of the direction for the Conservation Area. We want to reduce the sites around the day use area to make more natural space for all to enjoy. Board member commented on business model and other Non hydro campsite comparable prices. Staff commented that fees are set as sufficient to run the campground. Staff commented further on future potential for private maintenance. Staff commented that this is a legacy Business inherited from the Napanee Region Conservation Authority and at one time was in a state of embarrassment and in need of repair. Quinte Conservation has now found the best balance for the property and transformed it. Board member commented on the financial concerns. Board member commented on personally camping there previously, and loved the area, asked about the idea of maintenance outsourcing. Staff offered that the idea of maintenance outsourcing needs further investigation. Board member asked about status quo. Interior camping has changed, and seasonal spots will come to an end at the "Point" after 2025 season. Previously approved changes to be implemented in 2026.

### **18. Presentation – QC Watershed Science and Monitoring (Motion to Receive)**

#### **MOTION QC-24-036**

**Moved By:** Paul Carr

**Seconded By:** James Flieler

THAT, the QC Watershed Science and Monitoring staff Presentation be received.

**CARRIED**

Staff offered report as presented. Board member asked where water soldier originated, staff clarified that it was introduced into the Trent Severn and has migrated downstream. Originally an ornamental in ponds. Board member asked if citizens are able to get rid of water soldier, staff offered that it could be done but there needs to be clear education because it can spread easily. MNRF would need to be involved and may not allow it. Board member asked about potential divers being able to search for it. Staff clarified that divers can be helpful. Anglers have been on the look out for water soldier as well and are an important source of finding where water soldier is taking over. Board member asked about confirmed water soldier eDNA. Staff confirmed positive results from eDNA testing. We continue to collect data using this technique. Staff also follow up with visual inspections when reports of eDNA come in. Staff offered further challenges on combatting water soldier. Board member asked how is the fishery in big island and has it improved? Can Water soldier be irradiated? Can there be info for cottagers if found. Staff offered landowner handout and info pkgs. Are being developed and available. We haven't done fish assessment since 2020 but the data looks very good. Habitat has potential for some species at risk to utilize the created habitat in Big island wetland. Board member asked about mercury contamination. Staff offered that MNRF are involved with testing on the bay as they had concerns about possibility of mercury in the bay. Testing has so far showed negative/negligible impacts. Board member asked about water soldier spreading, by hand removal. Staff clarified that there are recommendations on when and how to remove. It does spread if you do not get the entire plant. Staff spoke about the use of herbicides as a control mechanism.

### **19. 2024 Board Member Recognition**

Chris Malette – Member Since 2019

Don Kuntze– Member Since 2019

Norm Roberts– Member Since 2016  
Paul Carr– Member Since 2015  
John Hirsch– Member Since 2015  
James Flieler– Member Since 2015  
Carrie West– Member Since 2015  
Janice Maynard– Member Since 2011  
Mike Kerby– Member Since 2011  
John Wise– Member Since 1999

**20. 2024 Staff Recognition**

Amy Dickens – 20 Years  
Brad McNevin – 20 years  
Mark Boone – 20 Years  
Mary Gunning – 15 Years

Maya Navrot – A Special Thank you for 17 Years of service.

**21. Other Business**

N/A

**22. Date and Time of Next Meeting**

The date and time of next meeting is April 18, 2024, or earlier at the call of the chair.

**23. Adjournment (*Motion to approve*)**

The meeting was adjourned at 5:21 pm.

**MOTION QC-24-037**

**Moved By: Lynn**

**Seconded By: Norm**

THAT, the meeting be adjourned.

**CARRIED**

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Chris Malette, Chair

# MONTHLY PERMIT SUMMARY

MARCH 2024

DEPARTMENT: Planning & Regulations

MANAGER/TEAM LEAD: Paul McCoy

PREPARED BY: Sam Carney, Planning Technician

## RECOMMENDED MOTION

THAT, the monthly permit summary for the month of MARCH 2024 be received.

RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY,  
THE QUINTE CONSERVATION 2021 - 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: **Advancing Environmental Science**

QC FILE NO.	SITE ADDRESS	WARD	TOWNSHIP	NATURAL FEATURE	WORK DESCRIPTION
REG0019-2024	151 MAIN ST	WELLINGTON	PEC	WEST LAKE	REPLACE CONCRETE BLOCK WALL ALONG THE SHORELINE ON SAME FOOTPRINT
REG0022-2024	1405 CTY RD 13	S. MARYSBURGH	PEC	LAKE ONTARIO	CONSTRUCT WORKSHOP
REG0024-2024	612 MORRISON PT RD	S. MARYSBURGH	PEC	LAKE ONTARIO	DWELLING & DETACHED GARAGE
REG0025-2024	1285 FISH & GAME CLUB RD	SIDNEY	QUINTE WEST	WATERCOURSE & WETLAND	DWELLING & SEWAGE SYSTEM
REG0027-2024	1 BEACH ST	WELLINGTON	PEC	LAKE ONT - WELLINGTON BAY	GRADING & INSTALLATION OF MOBILITY MAT
REG0030-2024	13 ROBLIN RD	RICHMOND	NAPANEE	TRIB TO SALMON RIVER	DEMO & REBUILD DWELLING & REPLACE SEWAGE SYSTEM
REG0034-2024	1844 FOURTH LAKE RD	HINCHINBROOKE	CENTRAL FRONTENAC	WETLAND	DWELLING & SEWAGE SYSTEM
REG0035-2024	118 COLUMBIA LN	HUNTINGDON	CENTRE HASTINGS	MOIRA LAKE	DWELLING ADDITION
REG0036-2024	265 NEVILLE PT RD	SHEFFIELD	STONE MILLS	BEAVER LAKE	DWELLING & SEWAGE SYSTEM
REG0037-2024	28 LEBOW RD	SIDNEY	QUINTE WEST	WETLAND	DWELLING, DUG WELL & SEWAGE SYSTEM
REG0041-2024	6154 MCMULLEN LN	PORTLAND	S. FRONTENAC	VERONA LAKE	DECK & SHED
REG0046-2024	154B N. BEAVER LAKE RD	SHEFFIELD	STONE MILLS	BEAVER LAKE	DEMO COTTAGE & CONSTRUCT SHED

QC FILE NO.	SITE ADDRESS	WARD	TOWNSHIP	NATURAL FEATURE	WORK DESCRIPTION
REG0047-2024	144 SUNSMILE LN	HUNGERFORD	TWEED	MOIRA RIVER	DETACHED GARAGE
REG0053-2024	102 KULL LN	SOPHIASBURGH	PEC	BAY OF QUINTE	REPLACE FAILED SEWAGE SYSTEM
REG0058-2024	HWY 41	KALADAR	ADDINGTON HIGHLANDS	RACCOON LAKE	DRIVEWAY
REG0072-2024	200 HAMILTON RD	SIDNEY	QUINTE WEST	POTTERS CREEK	2 NEW GRAIN BINS
REG0263-2023	434 MAIN ST	PICTON	PEC	HOSPITAL CREEK	REPLACE SEWAGE PUMPING STATION
REG0282-2023	2824 CENTRE LINE RD	MARMORA	MARMORA & LAKE	WATERCOURSE, PONDS & WETLANDS	DWELLING & SEWAGE SYSTEM
REG0391-2023	112 EDWARD DR	HILLIER	PEC	WELLERS BAY	DREDGE EXISTING BOAT SLIP
REG0400-2022	7465 HWY 62	THURLOW	BELLEVILLE	MOIRA RIVER FP & WETLAND	DWELLING & SEWAGE SYSTEM

# MONTHLY PLANNING SUMMARY

MARCH 2024

DEPARTMENT: Planning & Regulations

MANAGER/TEAM LEAD: Paul McCoy

PREPARED BY: Sam Carney, Planning Technician

## RECOMMENDED MOTION

THAT, the monthly planning summary for the month of MARCH 2024 be received.

### RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY, THE QUINTE CONSERVATION 2021 - 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: **Advancing Environmental Science**

APPL'N TYPE & QC FILE NO.	SITE ADDRESS	WARD	TOWNSHIP	NATURAL FEATURE	APPL'N DESCRIPTION
CONSENT & ZBA, PL0049-2024	VACANT LANDS WEST OF 3263 CTY RD 3	AMELIASBURGH	PEC	WETLANDS	SEVER 2 RURAL PARCELS. REZONE SEVERED LOTS TO RR2
CONSENT & ZBA, PL0056-2024	1226 CTY RD 35	SOPHIASBURGH	PEC	WETLANDS & BAY OF QUINTE	LOT ADDITION & REZONE RETAINED TO RR2-XX TO PERMIT LESSER FRONTAGE
CONSENT, PL0052-2024	209 FREEMAN RD	CAMDEN EAST	STONE MILLS	POTENTIAL KARST & WETLANDS	SEVER 3 RURAL PARCELS
CONSENT, PL0064-2024	2434 HARMONY RD	TYENDINAGA	HASTINGS CTY (TYENDINAGA)	WATERCOURSE & WETLANDS	SEVER 1 RURAL PARCEL
CONSENT, PL0065-2024	1622 VANDERWATER RD	HUNGERFORD	HASTINGS CTY (TWEED)	WATERCOURSE & WETLANDS	SEVER 1 RURAL PARCEL
CONSENT, PL0066-2024	NAPHAN RD	TYENDINAGA	HASTINGS CTY (TYENDINAGA)	WETLANDS & POTENTIAL KARST	SEVER 2 RURAL PARCELS
CONSENT, PL0076-2024	147 OLD TROY RD	HUNGERFORD	HASTINGS CTY (TWEED)	POTENTIAL KARST	LOT ADDITION
CONSENT, PL0078-2024	CTY RD 14	CAMDEN EAST	STONE MILLS	POTENTIAL KARST	SEVER 1 RURAL PARCEL
CONSENT, PL0268-2023	459 LAHEY RD	MADOC	HASTINGS CTY (MADOC)	WATERCOURSE, MOIRA LAKE, PSW & KNOWN & POTENTIAL KARST	SEVER 1 RURAL PARCEL
CONSENT, PL0290-2023	103 GALBRAITH GROVE RD	CAMDEN EAST	STONE MILLS	VARTY LAKE, PSW, UNEVALULATED WETLANDS & KNOWN KARST	SEVER 2 RURAL PARCELS



APPL'N TYPE & QC FILE NO.	SITE ADDRESS	WARD	TOWNSHIP	NATURAL FEATURE	APPL'N DESCRIPTION
CONSENT, PL0297-2023	3605 HARMONY RD	TYENDINAGA	HASTINGS CTY (TYENDINAGA)	WETLANDS & INFERRED KARST	SEVER 1 RURAL PARCEL
CONSENT, PL0332-2022	928 SCUTTLEHOLE RD	TYENDINAGA	HASTINGS CTY (TYENDINAGA)	WATERCOURSE, WETLANDS & POTENTIAL & KNOWN KARST	SEVER 1 RURAL PARCEL
MINOR VARIANCE, PL0054-2024	1068 C JACQUES BAY RD	ANGLESEA	ADDINGTON HIGHLANDS	WOLFE CREEK, SKOOTAMATTA LAKE & WATERCOURSE	ALLOW INCREASED HEIGHT AND REDUCED HWM SETBACK FOR DETACHED GARAGE
MINOR VARIANCE, PL0055-2024	74 LOON NEST RD	ANGLESEA	ADDINGTON HIGHLANDS	SKOOTMATTA LAKE	REDUCE HWM SETBACK FOR PROPOSED RETAINING WALL
MINOR VARIANCE, PL0057-2024	40 REID ST	RICHMOND	NAPANEE	TRIB OF NAPANEE RIVER & 'POTENTIAL' KARST	INCREASE THE NUMBER OF DWELLING UNITS PER LOT FROM 18 TO 19
MINOR VARIANCE, PL0062-2024	3 TWEEDSMUIR LN	HUNGERFORD	TWEED	MOIRA RIVER	REDUCE SETBACK FROM MXR ZONE TO ALLOW FOR RESIDENTIAL DWELLING
MINOR VARIANCE, PL0063-2024	125 HUNGERFORD RD	HUNGERFORD	TWEED	N/A	REDUCE REAR-YARD SETBACK & ALLOW FOR INCREASED LOT COVERAGE TO ALL 8-UNIT MULTI-RES. BLDG
MINOR VARIANCE, PL0069-2024	2332 CTY RD 41	RICHMOND	NAPANEE	MUD CREEK PSW & WATERCOURSE	EXPAND MAX. LAND AREA FOR WASTE PROCESSING, PARKING RELIEF & INCREASE PERMITTED BLDG HEIGHT
MINOR VARIANCE, PL0070-2024	1113 JOHNSTON RD	KENNEBEC	CENTRAL FRONTENAC	BIG CLEAR LAKE & BIG CLEAR LAKE EVALUATED WETLAND	REDUCE HWM SETBACK FOR SCREENED PORCH ON EXISTING DECK
MINOR VARIANCE, PL0071-2024	864 HARMONY RD	THURLOW	BELLEVILLE	WETLANDS	RELIEF TO ALLOW ACCESSORY BLDG CLOSER TO STREET THAN PRINCIPAL BLDG & ALLOW FOR INCREASED HEIGHT

APPL'N TYPE & QC FILE NO.	SITE ADDRESS	WARD	TOWNSHIP	NATURAL FEATURE	APPL'N DESCRIPTION
MINOR VARIANCE, PL0073-2024	4 HORTON CRT	SIDNEY	BELLEVILLE	N/A	RELIEF FROM COMBINED GROSS FLOOR AREA OF ACCESSORY DWELLING UNITS REQUIREMENT OF ZBL
ZBA, PL0046-2024	13311 LOYALIST PKWY	PICTON	PEC	N/A	REVIEW OF APPL'N, PLANNING JUSTIFICATION REPORT (BY ZELINKA PRIAMO), FUNCTIONAL SERVICING & SWM REPORT (BY ODAN DETECH) & DWGS A001 & A002 REV.1 DATED 2023/06/22 BY TURNER FLEISCHER) & DWGS 1-4 REV.2 (DATED NOV.2, 2023 BY ODAN DETECH)
ZBA, PL0051-2024	5248 CTY RD 41	SHEFFIELD	STONE MILLS	POTENTIAL' KARST	REZONE FROM RU TO C2-XX TO ESTABLISH ART STUDIO & CUSTOM WORKSHOP AS ADDITIONAL USES
ZBA, PL0053-2024	785 HUNT CLUB RD	MADOC	MADOC	WATERCOURSE & WETLANDS	REZONE FROM RU TO RR-16 TO RECOGNIZE AN ACCESSORY BLDG
ZBA, PL0058-2024	1601 CTY RD 24	ATHOL	PEC	N/A	REZONE FROM RR2-63-H TO RR2-161 FOR A DETACHED GARAGE
ZBA, PL0059-2024	178 BLAKELY LN	HUNTINGDON	CENTRE HASTINGS	MOIRA LAKE & 'KNOWN' KARST	REZONE FROM LSR TO LSR-17 TO RECOGNIZE DEFICIENT AREA AND FRONTAGE

APPL'N TYPE & QC FILE NO.	SITE ADDRESS	WARD	TOWNSHIP	NATURAL FEATURE	APPL'N DESCRIPTION
ZBA, PL0060-2024	23A/23B MOTHERS RD	ELZEVIR	TWEED	DRAINAGE/WETLAND FEATURE	REZONE FROM RR-44 TO RR ON 1 LOT & AMEND SITE SPECIFIC PROVISIONS OF RETAINED LOT REMOVING PERMISSION OF A 2ND DWELLING & ALLOW FOR REDUCED LOT FRONTAGE
SITE PLAN, PLP0006-2024	240 MARILYN AVE	RICHMOND	NAPANEE	N/A	REVIEW OF SWM & SERVICING REPORT (PEARSON ENG., DATED NOV.2023) INCL. DWGS ND-1, ND-2, SG-1, SG-2, SS-1, SS-2, PP-1, STM-1, STM-2 REV.5 DATED 11/06/23)
SITE PLAN, PLP0008-2024	1281 HWY 37	THURLOW	BELLEVILLE	N/A	REVIEW OF APPL'N, SWM BRIEF (THREE HILLS ENG., DATED FEB.7, 2024) INCL DWGS. C100 REV.1 (DATED 2024-01-05), C101 REV.1 (DATED 2024-01-05) & C102 & C103 REV.1 (DATED 2023-11-14)

# SOURCE WATER MONTHLY SUMMARY

DATE: MARCH 2024

DEPARTMENT: SOURCE WATER PROTECTION

MANAGER/TEAMLEAD: AMY DICKENS

PREPARED BY: AMY DICKENS, SOURCE WATER PROTECTION COORDINATOR

## RECOMMENDED MOTION

THAT, the source water monthly report be received.

RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY,  
THE QUINTE CONSERVATION 2021 – 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: ***Accelerating Advocacy***

<i>Accelerating Advocacy</i>	<i>Advancing Environmental Science</i>	<i>Boosting Well-Being</i>	<i>Strengthening Brand Recognition</i>
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## BACKGROUND INFORMATION

The Source Water Protection Program continues local efforts in support of the implementation of the *Clean Water Act*, 2006 and its regulations to protect local municipal drinking water sources by addressing requirements under the current framework and supporting municipalities to update the assessment reports and source protection plans as necessary to improve implementation and keep plans current.

## EDUCATION AND OUTREACH

During March, Quinte Conservation staff joined in a social media campaign developed by Conservation Ontario to promote awareness of applying road salt responsibly. Staff posted four messages on Facebook, LinkedIn, and X (formerly known as Twitter) on March 6, 13, 20 and 27. Additionally, staff posted an image on World Water Day (March 22) to remind people of the essential role water plays in our everyday lives.

## PART IV (RISK MANAGEMENT SERVICES)

Part IV of the *Clean Water Act*, 2006 provides municipalities with enforcement tools to regulate existing and future activities that are significant drinking water threats due to their potential to pollute drinking water sources. Specifically, these tools include prohibition, risk management plans, and restricted land uses. Municipalities can choose to hire a Risk Management Official and Inspector or delegate the responsibility. All municipalities with Part IV responsibilities in the Quinte Source Protection Area have delegated this responsibility to Quinte Conservation due to the availability of qualified staff and the in-house expertise related to the Source Water Protection Program.

Within the first three months of 2024, Quinte’s risk management officials successfully negotiated two risk management plans. Several other plans in the Tweed area have started negotiations.

Risk Management Officials are also responsible for reviewing building and planning applications in vulnerable areas, to ensure no new significant threats are created. Once there is confirmation that no new threats will be created, the Risk Management Official issues a Section 59 clearance notice. To date, eight clearance notices have been issued in 2024, stating no new drinking water threats will be created with the proposed development, therefore the application can proceed from the municipality’s end.

In the previous calendar year, three risk management plans were established in the Quinte Source Protection Area. Since the Quinte Region Source Protection Plan took effect in 2015, a total of seventy-eight risk management plans have been established. The Risk Management Official was also able to verify that nine of the remaining properties identified as needing a risk management plan did not have any significant threat activities occurring on the property, therefore an exemption notice was issued to the property owner.

In the previous calendar year, thirty-five Section 59 notices were issued. Since the plan took effect, five hundred and four Section 59 notices have been issued.

## BEST PRACTICES GUIDANCE

The MECP released the [Best Practices for Source Water Protection](#) (Best Practices) guidance document in 2021 to provide suggestions and information to private drinking water system owners on how they can protect their sources of drinking water. Conservation Authorities across Ontario have been tasked to help promote the Best Practices to residents within conservation boundaries. Quinte Conservation staff have introduced the Best Practices to a variety of stakeholders including municipalities, school boards, and the general public.

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## MUNICIPAL WORKING GROUP

Quinte Conservation and Cataraqui Conservation created a joint municipal working group to discuss the Best Practices and ways municipalities could implement them in their area. Over two virtual meetings, Conservation staff have developed relationships with several municipalities and fostered their interest in working with staff to promote source water protection to rural residents. Potential projects that municipal staff showed interest in implementing include education and outreach (tax mailouts, information sheets, etc.), municipal management tools (Official Plans, land use planning, etc.), and incentive programs.

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## SCHOOL BOARD PARTNERSHIPS

Quinte and Cataraqui Conservation have also worked with a local school board to promote the protection of rural schools that are serviced by private drinking water systems. Through several meetings, Conservation staff were able to connect to the Manager of Facilities to discuss the potential of completing a site inspection of their rural systems and offering suggestions on how the school can better protect the drinking water source.

In addition to the school board partnership, Quinte Conservation staff ran the second [Drinking Water Protection Radio Contest](#). Due to the success in 2023, the contest was expanded to students in grades four to eight. This year’s winner came from a grade four student at St. Mary’s in Trenton. The winning class will receive a free field trip to the Gerry O’Connor Water Treatment Plant where they will receive a tour from one of the operators. The class will also receive a Water Rangers Education Testkit valued at \$560.00 and a pizza

lunch. The student with the winning ad will go to 91X FM to record their ad to be played on the radio and they will receive a digital copy as a keepsake.

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## PUBLIC EVENTS

Over the past year, staff have attended 30 virtual and in-person events. These events target the general public stakeholders and provide relevant information about how they can protect their sources of drinking water. Events from the past year include but are not limited to the Hastings Plowing Match, the Children’s Water Festival, [Drinking Water Wise Webinars](#), and several fairs. Through these events, staff have reached approximately 4,600 people and distributed 145 well testing kits.

## GENERAL PROGRAM UPDATES

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### SECTION 36 AMENDMENTS

Staff submitted the final Section 36 package to the Ministry of the Environment, Conservation and Parks March 28, 2024.

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### ANNUAL PROGRESS REPORT

Source Protection Authorities must report by May 1 every year on the progress of policy implementation to the Ministry of the Environment, Conservation and Parks. A progress report has been developed for Quinte’s Source Protection Plan.

The Progress Reports are based on a high-level reporting template developed by the Ministry of Environment, Conservation and Parks for the assessment of implementation progress.

The Source Protection Committee is responsible for determining the extent of which the objectives set out in the plan are being achieved by the measures described in the annual progress report. The Committee must decide by consensus, an overall “progress score”, as well as “progress scores” for six sections in the report. On March 21, 2024, the Quinte Source Protection Committee decided to score all sections of the report as ‘Progressing well / on target’ as most of the source protection plan policies have been implemented and/or are progressing according to the timelines in the source protection plan.

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### TRANSFER PAYMENT AGREEMENT

New this year, the Ministry of the Environment, Conservation, and Parks introduced three-year agreements for source protection funding for April 1, 2024 – March 31, 2027. Staff have submitted the application request for Quinte and while agreements are not yet finalized, staff have had one negotiation to date to answer any questions of the ministry.

## RATIONALE

The Source Protection Program continues local efforts in support of implementation of the *Clean Water Act*, 2006 and its regulations to protect local municipal drinking water sources by addressing requirements under

the current framework and supporting municipalities to update the assessment reports and source protection plans as necessary to improve implementation and keep plans current.

#### FINANCIAL DETAILS

This project is completely funded by the Ministry of the Environment, Conservation, and Parks.

#### PARTNER GROUPS/CONSULTANTS

Source Water Protection program works in collaboration with the Quinte Region Source Protection Committee, member municipalities, and the Ministry of the Environment, Conservation and Parks.

# 2023 CAPITAL DAM PROJECTS REVIEW

DATE: APR/18/2024

SUBMITTED BY: MIKE SMITH, WATER CONTROL STRUCTURES TECHNOLOGIST

DEPARTMENT: WATER RESOURCES

## RECOMMENDED MOTION

THAT, the proposed 2023 Capital Dam Projects Review be received.

## RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY, THE QUINTE CONSERVATION 2021 – 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: **Accelerating Advocacy**

<i>Accelerating Advocacy</i>	<i>Advancing Environmental Science</i>	<i>Boosting Well-Being</i>	<i>Strengthening Brand Recognition</i>

## BACKGROUND INFORMATION

Quinte Conservation owns and operates over 40 dams and weirs. This water control infrastructure requires routine and capital maintenance to fulfill its design purpose, maintain structural stability, and protect operator and public safety. Quinte Conservation is liable for the condition of these structures, and this is measured against the standard of care amongst dam owners, as well as following the Ministry of Natural Resources and Forestry's best management practices.

Quinte Conservation's staff rely on a Capital Maintenance Plan, routine inspections, engineering inspections and replacement schedules to determine the most important and urgent projects to be completed each year. There is not enough funding or staff time available to complete all necessary projects each year. Careful prioritization is important to reduce the liability associated with these assets.

A capital levy from Quinte Conservation's member municipalities is necessary to undertake major capital projects and studies. The Water and Erosion Control Infrastructure (WECI) program through the Ministry of Natural Resources and Forestry (MNRF) is a grant program for Conservation Authority owned water infrastructure where the province will fund up to 50% of the total project cost.

During the 2022-2023 fiscal year, Quinte Conservation received grant funding for 7 of 8 projects through the Ministry of Natural Resources - WECI funding program. This funding provides 50% of the required project funds while the Capital Maintenance Annual Levy provides the remainder of the funds. The safety/debris boom at McLeod dam was withdrawn as it was deemed to mostly benefit the hydro station. WECI's mandate does not include projects associated with power generation and thus the project was disqualified for grant funding.

The below table shows all 2023-2024 WECI projects, their final expenditure and the amount paid by WECI.



Project ID	Project Name and Description	Total Approved Project Cost	Approved Provincial Share (50%)	Written Description of Final Progress	Total Project Expenditure
S.23.007	Upper Arden Dam - Dam Safety Review and Public Safety Risk Assessment	\$78,000.00	\$39,000.00	Project is complete.	\$78,000.00
S.23.021	Middle Arden Dam - Dam Safety Review and Public Safety Risk Assessment	\$55,000.00	\$27,500.00	Project is complete.	\$55,000.00
S.23.022	Lower Arden Dam - Dam Safety Review and Public Safety Risk Assessment	\$62,000.00	\$31,000.00	Project is complete.	\$62,000.00
S.23.023	Consecon Mill Dam - Dam Safety Review and Public Safety Risk Assessment	\$90,000.00	\$45,000.00	Project is complete.	\$90,000.00
S.23.042	Third Depot Lake Dam - Environmental Assessment	\$118,000.00	\$59,000.00	Project is complete based on revised scope of work.	\$118,000.00
<b>Totals</b>		<b>\$403,000.00</b>	<b>\$201,500.00</b>		<b>\$403,000.00</b>

**DAM SAFETY REVIEW AND PUBLIC SAFETY RISK ASSESSMENT FOR  
UPPER ARDEN, MIDDLE ARDEN, LOWER ARDEN AND CONSECON MILL DAMS**

Dam Safety Reviews were completed for the Arden dams in 2009. A Dam Safety Review has never been completed for the Consecon Mill dam. The Capital Maintenance Plan prioritizes these dam safety reviews among the earliest studies to undertake; this is consistent with the guidelines from the Canadian Dam Association (CDA) and the Lakes and Rivers Improvement Act (LRIA) which state that dams with these hazard potential classifications should undergo a Dam Safety Review every 10 years or following a significant structural change.

The Upper Arden dam is a concrete gravity structure with integral spillway and overflow sections. The Middle Arden dam is a stop log dam built integral with the township owned bridge. The Lower Arden dam is a concrete overflow structure originally constructed to power an adjacent mill. The Consecon Dam was built in 1976 with no major rehabilitations. It is a concrete gravity structure with integral spillway and overflow sections.

Upper Arden Dam, Middle Arden Dam and Lower Arden Dam DSR's were bundled and awarded to KGS Group. KGS was also awarded the Consecon Mill dam project. These projects were successfully completed on schedule. The Dam Safety Deficiencies and Recommendations and Figure 2-2 (General Layout) can be found appended to this report.

As part of the WECl program in 2021, Quinte Conservation issued a contract to GHD who undertook a Seepage Study at Third Depot Lake Dam. This report identified a seepage path through the sheet pile in the middle of the dam. It also suggested that through the 50+ year lifespan of the dam the internal sheet pile system may have become significantly deteriorated. The study recommended that Quinte Conservation investigate the system by exposing sections of the sheet pile to determine if the theoretical deterioration matched the actual conditions.

As part of the WECl program in 2022, Quinte Conservation exposed the sheet pile in three locations and had GHD inspect the conditions. It was found that the thickness of the sheet pile has been reduced by 85%, the seams are significantly deteriorated, and the remaining metal is now prone to rock puncture. GHD recommends that Quinte Conservation begin the process to repair or replace the sheet pile as soon as possible.

As part of WECl 2023 Quinte Conservation invited proposals from qualified firms for Consulting Services to complete an Environmental Assessment and preliminary design to repair or replace the Third Depot Dam as outlined in the Environmental Assessment Act.

This project was not completed as initially intended to allow for Quinte Conservation to investigate the decommissioning option more fully prior to the final option selection and initial design. This was outlined and approved as Board Meeting item QC-24-006.

TABLE ES-3: DAM SAFETY DEFICIENCIES AND RECOMMENDATIONS – UPPER ARDEN DAM

Structure/Component		Deficiencies/Issues			Recommendation			Priority Level	Action Type	Cost <sup>1/</sup>
<b>Hydrotechnical Aspects</b>										
<b>Freeboard</b>		<ul style="list-style-type: none"> <li>The dam would be overtopped during passage of the IDF by approximately 2 m. It is possible that the IDF can be reduced. In parallel, the seismic AEP can be re-evaluated.</li> </ul>	<ul style="list-style-type: none"> <li>Complete “incremental analysis” as per MINRF (2011) to investigate if a lower IDF than the flood 1/3 of the way between the 1,000-year and the PMF can be adopted. The analysis can include a confirmation of the HPC for flood-induced as well as for sunny-day failures and allow adjustment of dam safety criteria for this dam.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Study</li> </ul>	<ul style="list-style-type: none"> <li>\$25,000</li> </ul>				
<b>Geotechnical Aspects</b>										
<b>Concrete Condition</b>	<ul style="list-style-type: none"> <li>The original concrete was observed to be composed of poorly graded concrete infill between large boulders up to 500 mm in size.</li> <li>Cracked and disjointed poor condition concrete beneath the surface of the dam.</li> </ul>	<ul style="list-style-type: none"> <li>Complete additional core hole investigations to confirm the feasibility of post-tensioned anchors and to determine the need for injection grouting.</li> </ul>	<ul style="list-style-type: none"> <li>High</li> </ul>	<ul style="list-style-type: none"> <li>Investigation</li> </ul>	<ul style="list-style-type: none"> <li>\$30,000</li> </ul>					
<b>Foundation</b>	<ul style="list-style-type: none"> <li>Localized water boiling area immediately downstream of the dam adjacent to the south shoreline (leakage through base of dam)</li> </ul>	<ul style="list-style-type: none"> <li>Continue monitoring the downstream boiling area until the remediation measures are undertaken.</li> <li>Complete technical specifications and drawings via qualified engineer and carry out the repair of the leakage through the base of the dam.</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> <li>\$75,000</li> </ul>					
<b>Structural Aspects</b>										
<b>Abutment and Overflow Weir Sections</b>	<ul style="list-style-type: none"> <li>Dam does not currently meet the requirements of the 2011 MINRF Guidelines for the Winter Usual, Winter Unusual, IDF or Earthquake Loading cases.</li> </ul>	<ul style="list-style-type: none"> <li>Install post-tensioned anchors on the abutments of the dam to provide the required stability under all loading conditions. The feasibility of post-tensioned anchor and the need of injection grouting shall be confirmed by core hole sampling and further investigation on existing concrete quality.</li> </ul>	<ul style="list-style-type: none"> <li>High</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$600,000</li> </ul>					
<b>Concrete Condition</b>	<ul style="list-style-type: none"> <li>Medium vertical crack on north abutment section extending from upstream face, over crest and down approximately 1.5 m on downstream face of dam</li> </ul>	<ul style="list-style-type: none"> <li>Complete technical specifications and drawings via qualified engineer to perform crack injection to prolong the service life of the dam.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$20,000</li> </ul>					
<b>Public/Operator Safety Aspects</b>										
<b>Safety Booms</b>	<ul style="list-style-type: none"> <li>No safety booms are present upstream of the dam</li> </ul>	<ul style="list-style-type: none"> <li>It is a good practice to install safety booms to delineate the dangerous water area as recommended by the MINRF guidelines.</li> <li>As an interim measure, it is recommended to monitor the type and frequency of public activities in the hazardous zone immediately upstream of the dam and implement safety measures as needed (e.g. no swimming signage, no fishing signage, public education, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>\$210,000</li> <li>By QC</li> </ul>					

<sup>1/</sup> Probable construction costs exclude owner’s and engineering costs

**FIGURE 2-2: GENERAL LAYOUT OF UPPER ARDEN DAM SAFETY MEASURES**



## 2.3 Dam Description

The Upper Arden Dam, located along Arden Creek between Big Clear Lake and Arden Lake, is owned and operated by the Quinte Conservation. The construction date of the Upper Arden Dam is unknown. The dam is a concrete structure, 1.8 meters high, and 14.9 meters long. It features a stoplog sluice with six removable stop logs, flanked by a gravity abutment section to either side. The crest of the dam is 1.1 meters wide. Its main functions are maintaining Big Clear Lake water level for recreation purposes, to supply drinking water for the Arden Town residents, and attenuate floods during high flow events.

### 2.3.1 EARTH STRUCTURES

The geotechnical aspects associated with the water retaining components at the Upper Arden Dam are the north and south abutments, which are located on either side of the concrete dam structure, and the bedrock dam foundation.

TABLE ES-3: SUMMARY OF DSR RECOMMENDATIONS

Structure/Component	Deficiencies/Issues	Recommendation	Priority Level	Action Type	Cost /U
<b>Hydrotechnical Aspects</b>					
<b>Freeboard</b>	<ul style="list-style-type: none"> <li>Although the freeboard is adequate, the dam has additional capacity, not fully utilized during floods. This is not considered a deficiency but, rather, an opportunity for improvement.</li> </ul>	<ul style="list-style-type: none"> <li>It is advisable to confirm if flood forecasting can be improved or if the dam can be operated during a flood.</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Study</li> </ul>	<ul style="list-style-type: none"> <li>\$15,000</li> </ul>
	<ul style="list-style-type: none"> <li>Depressions and uneven areas on upstream slope</li> </ul>	<ul style="list-style-type: none"> <li>Complete technical specifications via qualified engineer to carry out filling and regrading of the depressions and uneven areas on the upstream slope.</li> <li>Continue monitoring the depressions until the remediation work has been completed.</li> <li>Continue monitoring the upstream slope to observe any recurring depressions after the remediation work has been completed.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> <li>N/A</li> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> <li>Monitoring</li> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>\$15,000</li> <li>By QC</li> <li>By QC</li> </ul>
<b>North Earthfill Embankment Dam</b>					
<ul style="list-style-type: none"> <li>Erosion along upstream waterline and sparse finer-sized rockfill riprap</li> </ul>	<ul style="list-style-type: none"> <li>Complete technical specifications via qualified engineer to install properly sized rip-rap protection along the waterline of the upstream slope.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance</li> </ul>	<ul style="list-style-type: none"> <li>\$15,000</li> </ul>	
<ul style="list-style-type: none"> <li>Unknown embankment fill properties and foundation conditions</li> </ul>	<ul style="list-style-type: none"> <li>Complete a topographical survey of the embankment dam and produce plan and cross sections.</li> <li>Complete a geotechnical investigation program to obtain the embankment fill properties and foundation conditions required to complete a slope stability analysis and seepage analysis of the embankment dam.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Investigation</li> <li>Investigation</li> </ul>	<ul style="list-style-type: none"> <li>\$10,000</li> <li>\$15,000</li> </ul>	
	<ul style="list-style-type: none"> <li>No immediate deficiencies/issues</li> </ul>	<ul style="list-style-type: none"> <li>Complete slope stability and seepage analyses to ensure the embankment dam meets the OWMR dam safety requirements.</li> <li>Monitor the abutment tie-in contacts for any seepage or deterioration of the concrete</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Analysis</li> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>\$10,000</li> <li>By QC</li> </ul>
<b>South Abutment</b>					



Structure/Component	Deficiencies/Issues	Recommendation	Priority Level	Action Type	Cost <sup>1/1</sup>
<b>South Downstream Armour Stone Retaining Wall</b>	<ul style="list-style-type: none"> <li>The armour stone retaining wall is in poor condition with large gaps between stones and misaligned stones with overhanging.</li> <li>The armour stone retaining wall retains the backfill material of Arden Road.</li> </ul>	<ul style="list-style-type: none"> <li>Complete technical specifications via qualified engineer to carry out the repair/replacement of the armour stone retaining wall.</li> <li>Continue monitoring the armour stone retaining wall until the remediation work has been completed.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>\$25,000</li> <li>By QC</li> </ul>
	<b>Structural Aspects</b>				
<b>Concrete Condition</b>	<ul style="list-style-type: none"> <li>Concrete curb on upstream and downstream end of traffic deck in poor condition due to cracking and spalling</li> </ul>	<ul style="list-style-type: none"> <li>Remove and replace existing concrete curbs with new concrete.</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$15,000</li> </ul>
<b>Stoplog Jacking System</b>	<ul style="list-style-type: none"> <li>Current practice to apply jacking force to stoplogs may result in excessive stress to culvert top deck</li> </ul>	<ul style="list-style-type: none"> <li>Install a jacking pin system to reduce stress on the deck</li> <li>Do not over-jack during stoplog operation</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$65,000</li> </ul>
<b>Public/Operator Safety Aspects</b>					
<b>Safety Booms</b>	<ul style="list-style-type: none"> <li>No safety booms are present upstream of the dam</li> </ul>	<ul style="list-style-type: none"> <li>It is a good practice to install safety booms to delineate the dangerous water area as recommended by the MNRF guidelines.</li> <li>As an interim measure, it is recommended to monitor the type and frequency of public activities in the hazardous zone immediately upstream of the dam and implement safety measures as needed (e.g. no swimming signage, no fishing signage, public education, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>\$230,000</li> <li>By QC</li> </ul>
<b>Guardrails</b>	<ul style="list-style-type: none"> <li>Existing guardrails located on upstream wingwalls/retaining walls are designed for vehicular safety and do not meet the standards for public safety.</li> </ul>	<ul style="list-style-type: none"> <li>Install public safety guardrails along the public walkways on the upstream side of the dam. Relocate vehicular guide rails between the roadway and sidewalk.</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$30,000</li> </ul>

<sup>1/1</sup>/ Probable construction costs exclude owner's and engineering costs

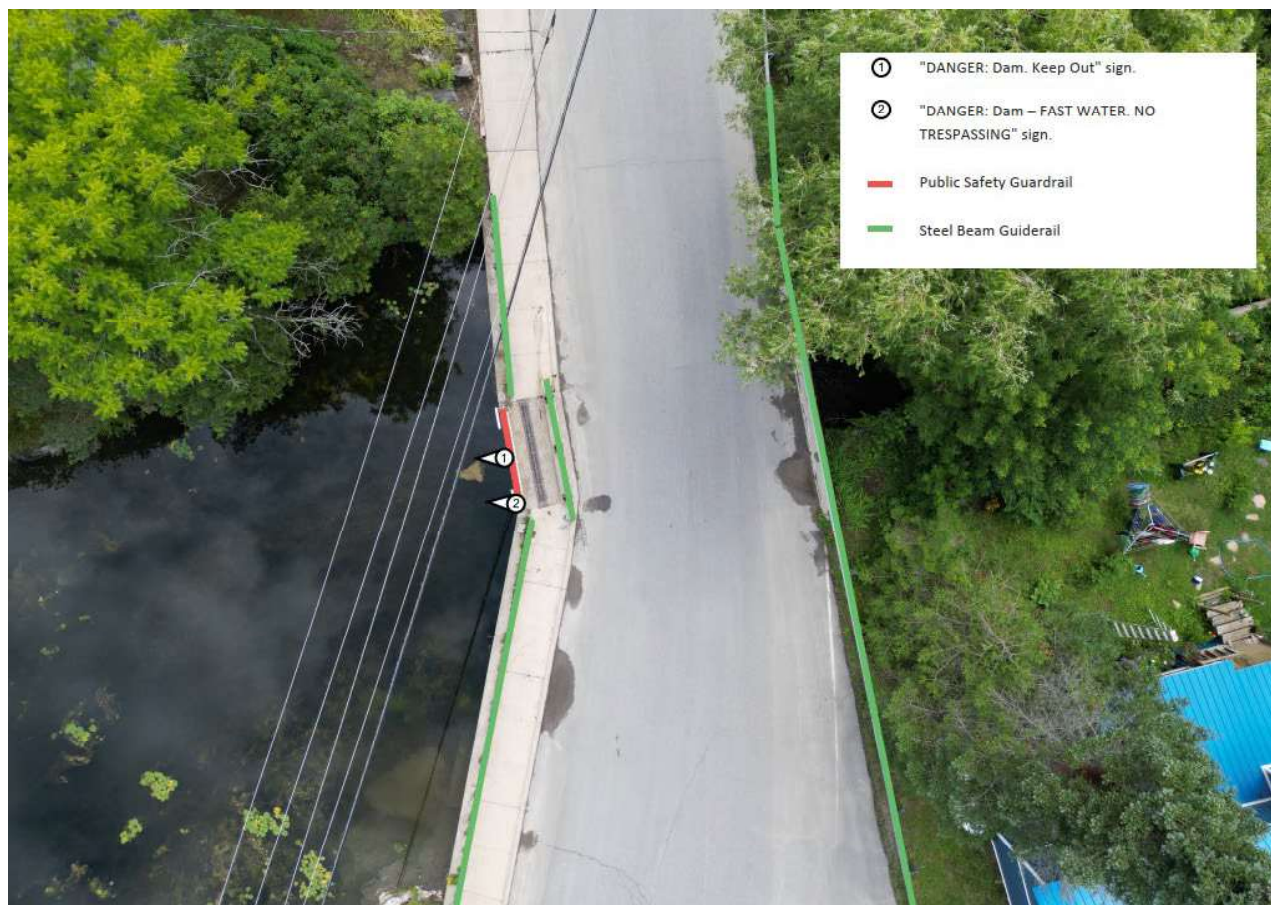
**Priority Ranking:**

High: Work that needs to be done to meet current regulations and dam safety requirements. Generally, it is the result of an identified deficiency and needs to be attended to in the short term (typically in 2 years).

Medium: Additional work that improves safety or corresponds to issues that may become dam deficiencies. These items should be addressed before the next DSR (typically in 5 years).

Low: These are opportunities to improve safety. These issues are not currently considered to be urgent and can be scheduled at QC's convenience

**FIGURE 2-2: GENERAL LAYOUT OF MIDDLE ARDEN DAM SAFETY MEASURES**



## 2.3 Dam Description

The Middle Arden Dam, located along Arden Creek between Big Clear Lake and Arden Lake, is owned and operated by Quinte Conservation. The Middle Arden Dam is approximately 45 meters downstream of the Upper Arden Dam. It consists of the Arden Road culvert, equipped with 12 stoplogs. The culvert dimensions are 3 meters high, 3 meters wide, and 8 meters long. Its main function is to maintain water in a small pond for recreational uses, and to supply drinking water for the Arden Town residents.

### 2.3.1 EARTH STRUCTURES

The geotechnical aspects associated with the water retaining components at the Middle Arden Dam are the north earthfill embankment dam and the north and south abutments.

It should be noted that the previous DSR did not include consideration for the road section (north earthfill embankment dam) as a water retaining component for the dam.

**TABLE ES-3: DAM SAFETY DEFICIENCIES AND RECOMMENDATIONS – LOWER ARDEN DAM**

Structure/Component	Deficiencies/Issues	Recommendation	Priority Level	Action Type	Costs <sup>/1/</sup>
<b>Geotechnical Aspects</b>					
<b>Abutments</b>	<ul style="list-style-type: none"> <li>No immediate deficiencies/issues</li> </ul>	<ul style="list-style-type: none"> <li>Monitor the north and south abutment tie-in contacts for any seepage or deterioration of the concrete</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>
<b>South Upstream Shoreline</b>	<ul style="list-style-type: none"> <li>Minor surface erosion</li> </ul>	<ul style="list-style-type: none"> <li>Monitor any progression of the minor surface erosion at the south upstream shoreline close to the south abutment contact</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>
<b>North Downstream Shoreline</b>	<ul style="list-style-type: none"> <li>Minor surface erosion</li> </ul>	<ul style="list-style-type: none"> <li>Monitor any progression of the minor surface erosion at the north downstream shoreline close to the north abutment contact</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>
<b>Structural Aspects</b>					
<b>Abutment and Overflow Weir Sections</b>	<ul style="list-style-type: none"> <li>Both overflow weir and abutment sections do not currently meet the requirements of the 2011 MNRF Guidelines for the Winter Usual or Unusual Loading cases.</li> </ul>	<ul style="list-style-type: none"> <li>Prepare drawings and technical specifications by qualified engineer for installation of post-tensioned anchors on the abutments and overflow weir section of the dam to provide the required stability under ice loading conditions.</li> </ul>	<ul style="list-style-type: none"> <li>High</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$250,000</li> </ul>
<b>Concrete Condition</b>	<ul style="list-style-type: none"> <li>Open cracks subject to erosion at either side of the overflow section</li> </ul>	<ul style="list-style-type: none"> <li>Prepare drawings and technical specifications by qualified engineer for crack injection program to prolong the service life of the dam</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$15,000</li> </ul>
<b>Debris Management Downstream of Dam</b>	<ul style="list-style-type: none"> <li>Large fallen tree and heavy vegetation immediately downstream of overflow weir section</li> </ul>	<ul style="list-style-type: none"> <li>Clear the vegetation and debris and establish maintenance procedure to avoid future impact to the dam</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$8,000</li> </ul>
<b>Public/Operator Safety Aspects</b>					
<b>Safety Booms</b>	<ul style="list-style-type: none"> <li>No safety booms are present upstream of the dam</li> </ul>	<ul style="list-style-type: none"> <li>It is a good practice to install safety booms to delineate the dangerous water area as recommended by the MNRF guidelines.</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$210,000</li> </ul>
<b>Guardrails / Gate</b>	<ul style="list-style-type: none"> <li>No gate or guardrail exists at the accessible areas of the dam</li> </ul>	<ul style="list-style-type: none"> <li>As an interim measure, it is recommended to monitor the type and frequency of public activities in the hazardous zone immediately upstream of the dam and implement safety measures as needed (e.g. no swimming signage, no fishing signage, public education, etc.)</li> <li>Monitor the dam for trespassing, and in case of incident(s) consider installation of a secured gate and guardrails for the accessible areas.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Monitor</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>

<sup>/1/</sup> Probable construction costs exclude owner's and engineering costs

**Priority Ranking:**

High: Work that needs to be done to meet current regulations and dam safety requirements. Generally, it is the result of an identified deficiency and needs to be attended to in the short term (typically in 2 years).

Medium: Additional work that improves safety or corresponds to issues that may become dam deficiencies. These items should be addressed before the next DSR (typically in 5 years).

Low: These are opportunities to improve safety. These issues are not currently considered to be urgent and can be scheduled at QC's convenience.



**FIGURE 2-2: GENERAL LAYOUT OF LOWER ARDEN DAM SAFETY MEASURES**



### 2.3 Dam Description

The Lower Arden Dam, located along Arden Creek between Big Clear Lake and Arden Lake, is owned and operated by Quinte Conservation. The dam is an old mill dam situated approximately 150 meters downstream of the Middle Arden Dam. The main function of the dam was originally to provide waterpower to the adjacent mill, which is no longer operational. Currently, the dam maintains water in a small head pond for limited recreational use and for water supply. The Lower Arden Dam is a concrete structure, 2.75 meters high, and 25.5 meters long. The crest of the dam is 0.92 meters wide. Water discharges over the dam via an uncontrolled 7.6 meters long and 0.75 meters high spillway. The dam is not operated and the continuous discharge over the spillway is being maintained by the operation of the Upper Arden Dam and Middle Arden Dam.

**TABLE ES-2: SUMMARY OF DEFICIENCIES / ISSUES AND RECOMMENDATIONS**

Structure/Component	Deficiencies/Issues	Recommendation	Priority Level	Action Type	Cost
<b>Geotechnical Aspects</b>					
<b>Overflow Weir</b>	<ul style="list-style-type: none"> <li>Undermined area beneath low-flow overflow weir section</li> </ul>	<ul style="list-style-type: none"> <li>Complete technical specifications via qualified engineer and carry out the repair of the undermined area during no-flow conditions using concrete/grout</li> <li>Continue monitoring the undermined area during no-flow conditions until the remedial work has been completed</li> <li>Monitor the concrete-to-bedrock contact along the length of the overflow weir for any seepage, erosion, instability failures, or back-cutting at the toe of the overflow weir structure</li> </ul>	<ul style="list-style-type: none"> <li>High</li> <li>N/A</li> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> <li>Monitoring</li> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>\$25K</li> <li>By QC</li> <li>By QC</li> </ul>
<b>South Upstream Retaining Wall Abutment</b>	<ul style="list-style-type: none"> <li>Minor surface erosion at the south upstream retaining wall abutment contact</li> </ul>	<ul style="list-style-type: none"> <li>Install properly sized additional rip-rap protection at the upstream abutment contact (up to 3 m upstream)</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance</li> </ul>	<ul style="list-style-type: none"> <li>\$10K</li> </ul>
<b>North Abutment</b>	<ul style="list-style-type: none"> <li>No immediate deficiencies/issues</li> </ul>	<ul style="list-style-type: none"> <li>Monitor the north abutment tie-in contacts for any seepage or deterioration of the concrete/interlocking concrete blocks</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>
<b>Vegetation</b>	<ul style="list-style-type: none"> <li>Bush/small tree vegetation growing at the north and south abutment contacts</li> </ul>	<ul style="list-style-type: none"> <li>Remove any substantial bush/tree growth from the abutment contacts up to 4 m in both the upstream and downstream directions</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>
<b>Structural Aspects</b>					
<b>Access Stairway</b>	<ul style="list-style-type: none"> <li>Crack along length of stairway</li> </ul>	<ul style="list-style-type: none"> <li>Replacing the stairway with a steel access stairway.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$30k</li> </ul>
<b>Walkway Slab</b>	<ul style="list-style-type: none"> <li>High amount of water ponding due to poor drainage</li> </ul>	<ul style="list-style-type: none"> <li>Cut drainage outlet trough(s) at the top of the downstream retaining wall near the low point of the walkway slab to allow water ponding to flow downstream.</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$5k</li> </ul>
<b>Spillway Pier and Overflow Weir</b>	<ul style="list-style-type: none"> <li>Both overflow weir and spillway pier do not currently meet the requirements of the 2011 MNRF Guidelines for the Winter Usual or Unusual Loading cases.</li> </ul>	<ul style="list-style-type: none"> <li>Monitor the dam winter ice loading conditions and determine if an ice sheet is formed in the dam forebay, and if the ice sheet effectively bridges from the south to the north pier.</li> <li>Inspect the dam for damage/movement from ice impacts. If any distress of the dam is identified, consult an engineer to assess if additional stability measures are required.</li> </ul>	<ul style="list-style-type: none"> <li>High</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> </ul>
<b>Public/Operator Safety Aspects</b>					
<b>Safety Booms</b>	<ul style="list-style-type: none"> <li>No safety booms located upstream of the dam</li> </ul>	<ul style="list-style-type: none"> <li>It is a good practice to install safety booms to delineate the dangerous water area as recommended by the MNRF guidelines.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$250k</li> </ul>
<b>"Danger" Upstream Signage</b>	<ul style="list-style-type: none"> <li>"DANGER" upstream sign is not appropriately sized to read from a safe distance from the hazardous area and does not meet MNRF's recommended color scheme.</li> </ul>	<ul style="list-style-type: none"> <li>As an interim measure, it is recommended to monitor the type and frequency of public activities in the hazardous zone immediately upstream of the dam and implement safety measures as needed (e.g. no swimming signage, no fishing signage, public education, etc.)</li> <li>Consider replacement of the sign with a standard 4' x 6' MNRF signage design using red and white lettering and indicate that the public must keep out of the hazardous zone.</li> </ul>	<ul style="list-style-type: none"> <li>Medium</li> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring</li> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>By QC</li> <li>\$2k</li> </ul>

<p><b>“No Trespassing” Signage</b></p>	<ul style="list-style-type: none"> <li>Lack of “No Trespassing” signage to deter public from approach the access stairway south of the operations deck.</li> </ul>	<ul style="list-style-type: none"> <li>Install new “No Trespassing” sign at the access gate to the operations deck, facing the public patio area.</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> </ul>	<ul style="list-style-type: none"> <li>Repair</li> </ul>	<ul style="list-style-type: none"> <li>\$1k</li> </ul>
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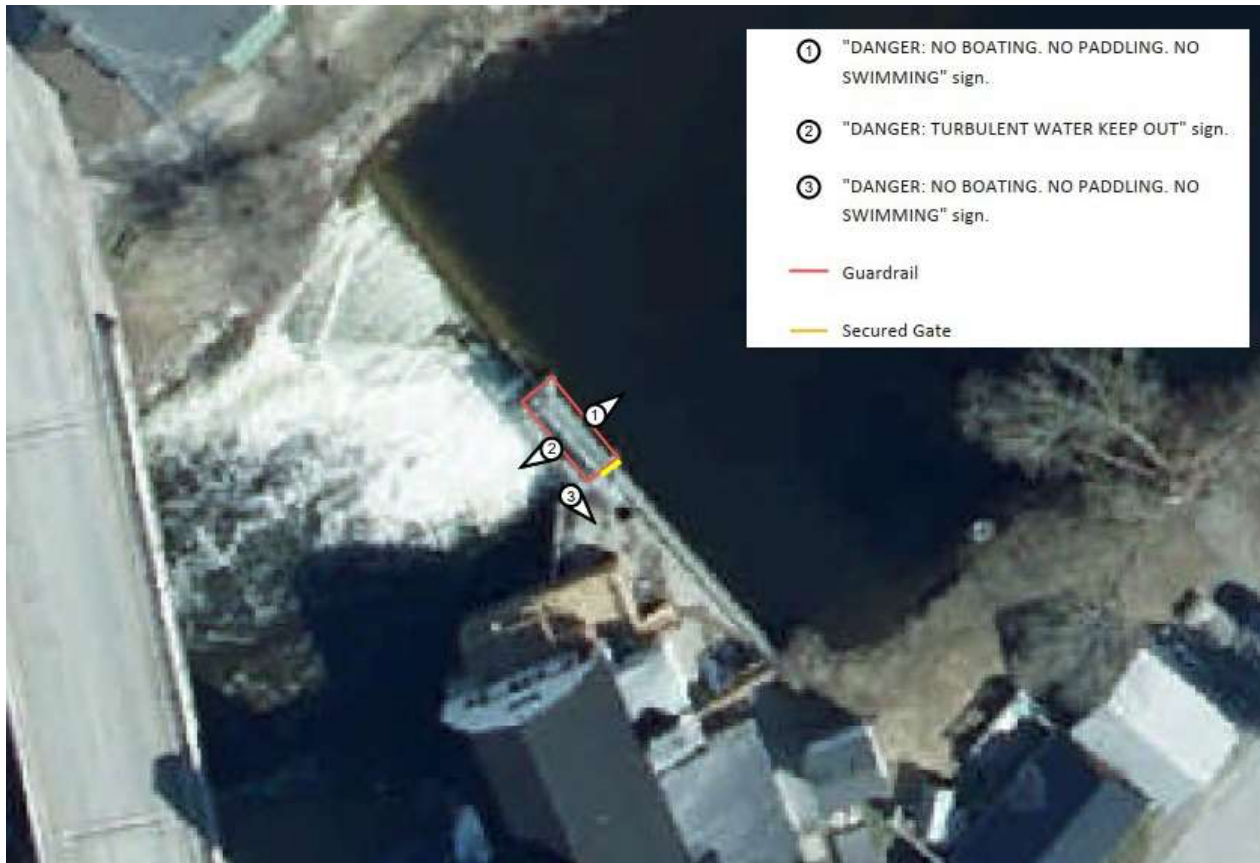
**Priority Ranking:**

- (a) High - Within 2 years
- (c) Medium - Within 5 years
- (d) Low - Long term (over 5 years)

**High:** Work that needs to be done to meet current regulations and dam safety requirements. Generally, it is the result of an identified deficiency and needs to be attended to within the next 2 years.

**Medium:** These deficiencies may include additional work that could improve safety or issues that may become dam deficiencies. These items should be addressed before the next DSR.

**Low:** These are opportunities to improve safety. These issues are not currently considered to be urgent and can be scheduled at CC’s convenience.

**FIGURE 2-2: LAYOUT OF CONSECON MILL DAM SAFETY MEASURES**

## 2.3 Dam Description

Consecun Mill Dam, located across the Consecun Creek, in the village of Consecun, Ontario, is owned and operated by Quinte Conservation. The main storage feature along the creek is Consecun Lake. Below the Whitney Dam and upstream of Regional Rd 29, there is a small reservoir formed by the Consecun Mill Dam. About 400 m downstream from the Consecun Mill Dam, the creek feeds into Wellers Bay, Lake Ontario.

### 2.3.1 CONCRETE STRUCTURES

The dam consists of an overflow weir section which is abutted to the south by a single sluice stoplog spillway supporting a steel grating operations deck via two (2) piers. The southern pier is abutted with the south earth abutment which is contained between the upstream and downstream retaining walls.

### 2.3.2 EARTH STRUCTURES

The geotechnical aspects associated with the water retaining components at the Consecun Mill Dam are the north and south abutments, which are located on either side of the concrete dam structure, and the bedrock dam foundation.



# QC FOREST CARBON UPDATE

DATE: APRIL/2024

DEPARTMENT: CORPORATE SERVICES

PREPARED BY: TIM TRUSTHAM, CONSERVATION FORESTER

## RECOMMENDED MOTION

THAT, the QC forest carbon update be received.

RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY,  
THE QUINTE CONSERVATION 2021 – 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: *i.e.*, Boosting Well-being

<i>Accelerating Advocacy</i>	<b>Advancing Environmental Science</b>	<i>Boosting Well-Being</i>	<i>Strengthening Brand Recognition</i>
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## BACKGROUND INFORMATION

As discussed with the previous Land Committee and Executive Board, Quinte Conservation has been a leader in establishing a forest carbon offset program with its partners.

## PROJECT DESCRIPTION

Forest carbon offsets are not a new concept to North America. The very well-established State of California market has led the world in establishing protocols for several methods of measuring & evaluating carbon offsets (since 2004). The ‘Canadian Forest Lands’ guideline was only recently released by the American Carbon Registry (in September of 2021). Following this protocol, by reducing harvest levels Quinte Conservation has been the first in Canada to follow this protocol and register offset credits with the ACR. Established forest inventory plots will be remeasured periodically in order to verify the amount of growth that has been predicted by computer models. Further, annual inspections & reporting verify that the harvest levels are in fact lower than the potential.

It is very important to note that revenue from the sale of carbon offsets is completely voluntary – for both the seller (Quinte Conservation) and the buyers (often large, international corporate entities). Although carbon taxes are not popular within Canada, the revenue stream from this program will not be altered by the political landscape as the purchasers are not

bound by government regulations (as they would be within a regulatory market). Our agreement with ANEW Climate Canada (formerly Blue Source Canada) allows for 10 years of voluntary carbon offsetting (based on a reduction in harvest volumes from the QC lands), with an option for renewal at the end of the term.

#### FINANCIAL DETAILS

Staff are proud to announce to the Board that our office has received payment for our first reporting period (July 2020 to June 2021). This payment of \$255,000 represents the gross revenue minus the third-party expenses of installing the forest measurement plots and sales commissions. Future annual payments will be closer to \$600,000 because the expenses have already been accounted. Staff anticipate distributing a large portion of this annual revenue to the Quinte Conservation Foundation. In turn, the foundation can act as a trust fund which distributes dividend payments to environmental projects within our watershed.

#### PARTNER GROUPS/CONSULTANTS

Quinte Conservation is required to maintain 'forest certification' as part of the carbon sales agreement. As such, our office continues to be a part of the community forests program managed by the Ontario Woodlot Association. Further, staff continue to be impressed by ANEW Climate Canada's commitment to establishing the first Canadian forest carbon offset and thus providing an alternate revenue stream from the Quinte Conservation forest (property) holding.

# QC FOREST AND ENHANCING CANADA'S PROTECTED AREAS (30 X 30 TARGET)

DATE: APRIL/2024

DEPARTMENT: CORPORATE SERVICES

PREPARED BY: TIM TRUSTHAM, CONSERVATION FORESTER

## RECOMMENDED MOTION

THAT, the QC forest and enhancing Canada's protected areas update be received.

RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY,  
THE QUINTE CONSERVATION 2021 – 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: *i.e.*, Boosting Well-being

<i>Accelerating Advocacy</i>	<b><i>Advancing Environmental Science</i></b>	<i>Boosting Well-Being</i>	<i>Strengthening Brand Recognition</i>
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## BACKGROUND INFORMATION

The Federal Government of Canada was a signatory of an agreement on biodiversity called the 'Kunming-Montreal Global Biodiversity Framework', which was promoted through the United Nations – Convention on Biodiversity in late 2022. Among other goals, the Federal government committed to protecting 30 percent of the land and sea area by the year 2030; and this target was adopted by many nations around the world. The target aims to protect biodiversity, mitigate impacts of climate change, and ensure the sustainability of ecosystems.

## PROJECT DESCRIPTION

In partnership with 'Ontario Nature' and our 'Community Forest Certification Group', Quinte Conservation staff volunteered to pilot an assessment process which would confirm whether our land holding could assist the Federal Government in meeting this target.

## FINANCIAL DETAILS

There was no cost to the assessment as Ontario Nature conducted all research needed to satisfy the pilot program.

QC properties met the rigorous pan-Canadian standards, warranting their designation as 'protected areas' in the national database maintained by Environment and Climate Change Canada.

By approving land use policies which target commercial forest harvest on plantations and provide large areas of forest to continue developing through natural succession, the Quinte Conservation Executive has prioritized watershed health and the protection of the area's natural ecology (over commercial exploitation). Further, our sustainable management practices are further reflected through the 'Forest Stewardship Council' certification for Community Forests (which is managed through partnership with the Ontario Woodlot Association).

Several other community forest property holdings have also been recognized as contributing to this global target (for example the Northumberland County Forest) and has led to public inquiries about the program. Being entirely voluntary and non-binding, this announcement should be a reminder of the excellent work contributed by past & present Executive Board members (plus staff) that have continued to manage this large property holding for the benefit of watershed residents.



# HI-LO BOARDWALK PROJECT

DATE: APR/ 18/2023

SUBMITTED BY: MIKE SMITH, WATER CONTROL STRUCTURES TECHNOLOGIST

DEPARTMENT: WATER RESOURCES

## RECOMMENDED MOTION

THAT, Quinte Conservation enter into a contract with Ducon Contractors and Homes Ltd. for the design of the Hi-Lo Boardwalk with an option to modify contract to include construction.

RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY,  
THE QUINTE CONSERVATION 2021 – 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: **Boosting Well-Being**

<i>Accelerating Advocacy</i>	<i>Advancing Environmental Science</i>	<i>Boosting Well-Being</i>	<i>Strengthening Brand Recognition</i>
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## BACKGROUND INFORMATION

The original Hi-Lo Boardwalk was built in the summer of 1993 to ensure that the Hi-Lo trail was fully usable all year. It spanned the Silver Maple Swamp between 2 drumlins and offered a glimpse into the ever-changing swamp community in addition to an up-close look at the towering silver maples that seem to hold it all together from relatively high-water levels during the spring melt to dry ground in the summer. The swamp is connected to the Moira River and as the water level rises in the river so does the water level in the swamp. This area regularly sees spring high water and ice jamming.

The purpose of this project is to replace the original Hi-Lo Boardwalk which was removed by Quinte Conservation due to safety concerns. The new boardwalk will be better equipped to handle the required water and ice flows by using galvanized helical piles for a foundation in lieu of cedar cribs and by placing the boardwalk above the 100-year regulatory flood event. When compared to other installation methods the helical piles provide much better stability and bearing capacity while also minimizing damage to the wetland area.

Quinte Conservation posted a tender to the Quinte Conservation website for 4 weeks which included 2 parts. The first was a quote for the design of the boardwalk. The second was a budget price for the construction of the boardwalk.

Quinte Conservation has allocated \$50,000 which includes money donated through the seasonal ‘adopt-an-acre’ fundraising program which will be used to fund the design phase of the project and any carryover will be

spent on the construction. A proposal has been submitted to the Parrot Foundation for the remainder of the funds.

The issued contract would include the design cost only. Following a final design the contractor will submit a final construction price. Quinte Conservation will review any cost increases from the tender estimate and if the costs are justified and if the price is found to be within 15% of its original estimate it will be considered “within budget” and can be added to the contract via a change order. If the price cannot be justified, the contract would terminate, and Quinte Conservation would maintain the rights to use the completed design as we see fit.

Quinte Conservation received 3 proposals through the tender process per the below notes.

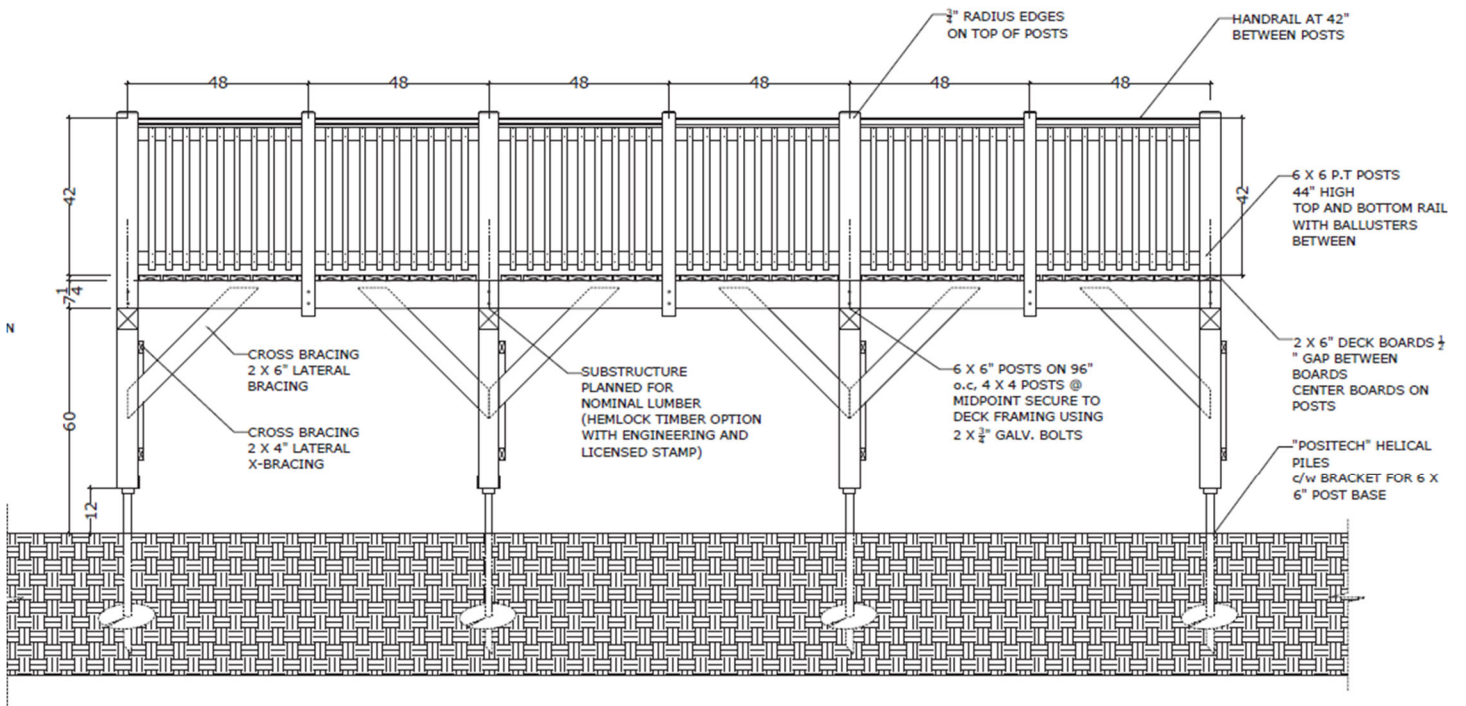
<b>Contractor</b>	<b>Design Price</b>	<b>Construction Budget</b>	<b>Foundation Style</b>
Company A	\$17,800.00	\$99,654.86	Direct Buried Wood Support
Ducon Contractor and Homes Ltd.	\$7,500.00	\$151,378.84	Helical Pile – 12” above grade. Cross bracing to be 2x6 PT.
Company C	\$8,500.00	\$223,000.00	Helical Pile – to underside of joist. Pile system includes cross bracing.

Following a review of the proposals, Quinte Conservation took concern with the stability and longevity of the direct buried wood supports as carried by Company A and the construction budget was considerably higher for Company C.

Quinte Conservation has reviewed, approved and witnessed the installation of similar helical piles for boardwalks through our permitting office. Given the above, Quinte Conservation recommends that we issue a contact for \$7,500 to Ducon Contractors and Homes Ltd. for the design of the Hi-Lo Boardwalk with the option to increase the contract to include the construction.



The previous Hi-Lo Bridge In Poor Condition Prior to Removal



Conceptual Drawing – Ducon Contractors and Homes Ltd. Proposal, Mar 2024

# VEHICLE REPLACEMENT

DATE: APRIL 18, 2024

**SUBMITTED BY: BRAD MCNEVIN, CAO**

**DEPARTMENT: ADMINISTRATION**

## RECOMMENDED MOTION

THAT, staff be directed to replace the 2008 Ford F-150 in accordance with our Asset Management Plan, with a 2022 Chevrolet Silverado at a list price of \$31, 495 (plus taxes and licensing fees).

## RELATIONSHIP TO STRENGTHENING OUR NATURAL ECOSYSTEMS: A CONTINUING JOURNEY, THE QUINTE CONSERVATION 2021 – 2030 STRATEGIC PLAN

This report supports the following pillar set forth in the Strategic Plan: **All Pillars**

<i>Accelerating Advocacy</i>	<i>Advancing Environmental Science</i>	<i>Boosting Well-Being</i>	<i>Strengthening Brand Recognition</i>
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## BACKGROUND INFORMATION

Quinte Conservation has a small fleet of vehicles including cars, vans, and trucks (both 2- and 4-wheel drive). As part of our 2023 Asset Management Plan, a replacement schedule has been approved. The 2008 Ford F 150 (2-wheel drive) was identified to be replaced in 2024. The vehicle has some significant maintenance needs, and the body has significant rusting. Staff will sell the 2008 Ford F 150 in an “As Is” condition as soon as we secure a replacement. This vehicle is currently not in operation but we are nearing the busy season and need it replaced.

## PROJECT DESCRIPTION

The replacement of the 2008 Ford F 150 is a priority identified for 2024.

## RATIONALE

Although it is difficult to find an exact comparison for vehicles, staff have explored locale dealerships as well as online resources to verify we are getting good value for money. The 2022 Chevrolet 2x4 Silverado with 37,500 km and balance of warranty was deemed to be of good value for the cost of \$31,495 (plus taxes and licensing fee). Costs for similar vehicles have been included as appendices to this report.

## FINANCIAL DETAILS

Bayview Auto’s list price is \$31,495 (plus taxes and licensing) and currently has this vehicle on hold.

## PARTNER GROUPS/CONSULTANTS

N/A

**2022 Chevrolet  
Silverado 1500  
LTD Work Truck  
4x2 Regular Cab  
8 ft. box**

5.3 V8 POWER GROUP BALANCE OF WARR!

**Finance and Save \$1500:**

**\$29,995**

**Cash Price:**

**\$31,495**

Listed price does not include taxes and licensing fees.

Call us: [+1-866-594-2262](tel:+1-866-594-2262)



**Mileage: 37,351 km**

**Payment: \$202 (Bi-weekly)**

\$29,995 x 96 Months @ 8.99% APR (estimated financing rate, cost of borrowing \$12,117). \$0 down payment.  
Plus HST and License.  
P.P.S.A + Tax Extra

- Body Style: Pickup
- Engine: 5.3L 8cyl
- Exterior: White
- Interior: Black
- Fuel type: Gasoline
- Transmission: Automatic
- Drivetrain: 4x2
- Stock #: 41004J
- Trim Details: Work Truck 4x2 Regular Cab 8 ft. box
- City: Belleville

**Description**

REG CAB, LONG BOX, CORNER BOX STEPS, TRAILER HITCH, BOX LINER, VINYL FLOOR, POWER WINDOWS DOORS & LOCKS, A/C, STOP/START ENGINE, TRACTION CONTROL, 17"ALLOYS, REVERSE CAMERA... FINANCE & SAVE \$1500.00: \$29,995.....CASH 31,495. ALL VEHICLES COME CERTIFIED WITH A INSPECTION. OVER 500 VEHICLES IN



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41 CHAT

**2021 Chevrolet Silverado Regular Cab Work Truck 5.3L V8**

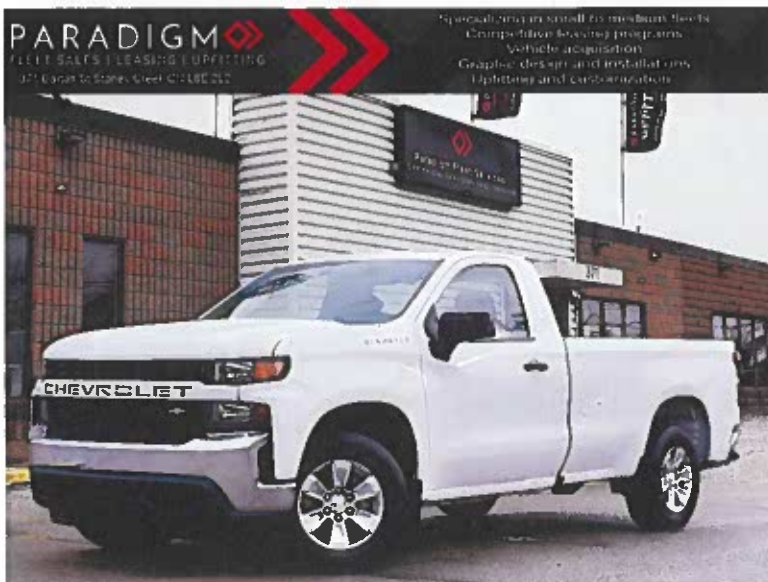
42,113 km | Stoney Creek | [Buy CARFAX History Report](#)

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**\$33,995**

+ TAXES & LICENSING

\$1,980 BELOW



+16

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**Highlights**

42,113 km	N/A	RWD	Heated Mirrors
			Engine-8Cyl
			Power Mirrors
			Power Windows

**Description**

Here at Paradigm Fleet Services we are your one stop shop for in house Upfitting and Logo Wrapping. We offer flexible KM leasing options, with Canada wide shipping for your convenience (with free local delivery with 100km of Hamilton). We take care of your business so you can take care of yours!

-2021 Chevrolet Silverado...

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**Specifications**

Kilometres	42,113 km
Status	Used
Trim	Regular Cab Work Truck 5.3L V8
Body Type	Truck
Engine	5.3L Ecotec V8
Cylinder	8
Drivetrain	RWD
Stock Number	3024
Passengers	3
Fuel Type	Gas

[Show all available specs](#)

**Car Insurance - TD Insurance**

Get an insurance quote on a **2021 Chevrolet Silverado** online & see how much you could save  
 Provided by **TD Insurance**

[Get a quote](#)

**Price Analysis**

This vehicle is listed at:



**2022 Chevrolet Silverado 1500 4x4| LOW KM'S| BACK UP CAMERA|**

18,816 km | Burlington | [Request free CARFAX History Report](#)

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**\$43,988**

+ TAXES & LICENSING

**\$6,248 BELOW**



+33

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**Highlights**

18,816 km	N/A	4x4	Rear View Camera Car Insurance - TD Insurance
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**Description**

Previous Daily Rental

We offer finance solutions to all credit situations!

We offer:

\$0 Down Car Loan Approvals O.A.C.

Sell us your car, even if you don't buy ours!

Great value for your Trade-in vehicle

Financing options available! Bad Credit? No Credit? Bankrupt? We'll help you rebuild your credit! O.A.C. Now!

Visit Car Nation Canada DIRECT today, the GTA's newest Pre-Owned Superstore and get low NO-HAGGLES PRICING - ONE PRICE INTEGRITY! We are conveniently located at 880 Walkers Line, Burlington (Harvey and ...

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**Specifications**

Kilometres	18,816 km
Status	Used
Trim	4x4  LOW KM'S  BACK UP CAMERA
Body Type	Truck
Engine	8 Cylinder Engine
Cylinder	8
Drivetrain	4x4
Stock Number	DRD4838
Exterior Colour	Summit White
Interior Colour	Black

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2021 Chevrolet Silverado 1500 Reg Cab| BACK UP CAMERA|  
50,963 km | Burlington | Request free CARFAX History Report

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+ TAXES & LICENSING

\$7,784 BELOW



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Highlights

50,963 km	N/A	RWD	Rear View Camera
			Car Insurance - TD Insurance

Description

Previous Daily Rental

We offer finance solutions to all credit situations!

We offer:

\$0 Down Car Loan Approvals O.A.C.

Sell us your car, even if you don't buy ours!

Great value for your Trade-in vehicle

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Visit Car Nation Canada DIRECT today, the GTA's newest Pre-Owned Superstore and get low NO-HAGG PRICING - ONE PRICE INTEGRITY! We are conveniently located at 880 Walkers Line, Burlington (Harve and ...

Read More

Specifications

Kilometres	50,963 km
Status	Used
Trim	Reg Cab  BACK UP CAMERA
Body Type	Truck
Engine	8 Cylinder Engine
Cylinder	8
Drivetrain	RWD
Stock Number	DR126
Exterior Colour	Summit White
Interior Colour	Black

Show all available specs

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**2022 Chevrolet Silverado 1500 1500, WT, 2D STANDARD CAB, 8 FT BOX!**  
28,668 km | Tilbury | [View CARFAX History Report](#)

Alert

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Alert Save

**\$32,246**

+ TAXES & LICENSING

\$10,034 BELOW



+22

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### Highlights

28,668 km

8 Speed Automatic

RWD

Dual Airbag

Intermittent Wipers

Rear Wheel Drive

Multi Point Inspection

Estimate your payments

### Payment configuration

Payment frequency  
Monthly

Finance Term & APR  
60 months @ 9.99%

### Pricing breakdown

Dealer price  
Cost of borrowing

Total obligation

Your estimated payment 45 \$316 bi-