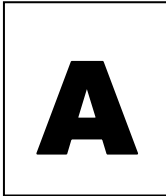


WMF Form A: Workplan Template
Watershed Management Fund Workplan: 2021/2022



Definitions

Goal: What you are working towards, your ultimate destination, where you are going

Objective: Tangible, measurable steps on the road towards your goal.

Activities: The specific actions you plan to do this year.

Submit completed form by **March 31, 2021** via email to kemacquarrie@gov.pe.ca or in person to Kate MacQuarrie or Mary Finch

Watershed Group: SOUTH SHORE WATERSHED ASSOCIATION	
Goal #1: Rehabilitate 11 km of Salmonid habitat in the South Shore Watershed's main river channels and important spawning tributaries	
Objectives	Activities
<p>Westmoreland River Watershed:</p> <ol style="list-style-type: none"> 1. Uninterrupted fish passage for entire length of West branch main channel of the Westmoreland River 2. Uninterrupted fish passage for East branch tributary 	<ul style="list-style-type: none"> • Assess the condition of the West branch main stream and remove all blockages including debris and in-stream alders for 2 km • Identify no more than 12 areas for possible brush mats placement • Assess Canopy cover and buffer zone <ul style="list-style-type: none"> ○ Locate, GPS and photograph areas identified for potential work • Use maps and creek walks to determine groundwater upwelling that trout could potentially be using for spawning habitat • Follow up Redd Surveys • Monitor areas where Redd were found • Assess the condition of the East branch tributary (GPS: 46.272543, -63.470923 to 46.279109, -63.461342) for 1 km • Selectively remove alders and debris • Locate and GPS and photograph run-off and garbage dump • Conduct surveys of the watershed following heavy rain events • Explore options to mitigate these issues including working with Dept. of Transportation, Agriculture and local land-owners

<p>Tryon Watershed</p> <ol style="list-style-type: none"> 1. Uninterrupted fish passage for entire length of East branch of Tryon River – <i>First 3 weeks of June</i> 2. Uninterrupted fish passage for entire length of West Branch of Tryon River – <i>First week of July</i> 3. Sediment Trap at Ives Pond – <i>Clean on first week of June</i> 	<ul style="list-style-type: none"> • Assess Craig’s Pond – check after Beaver dam • Rehabilitate fish passage at East Branch for 3 km upstream • Rehabilitate fish passage at West Branch for 2 km upstream • Selectively remove alders and debris • Identify no more than 12 areas for possible brush mats placement • Assess Canopy cover and buffer zone <ul style="list-style-type: none"> ○ Locate, GPS and photograph areas identified for potential work • Identify areas for restoration • Use maps and cree walks to determine groundwater upwelling that trout could potentially be using for spawning habitat • Locate and GPS and photograph run-off and garbage dump • Follow up on Redd surveys • Monitor areas where Redd were found • Secure boom placement • Beautification after equipment leaves
<p>DeSable watershed</p> <ol style="list-style-type: none"> 1. Uninterrupted fish passage for 1.5 km length of West Branch main river of DeSable River 	<ul style="list-style-type: none"> • Assess the condition of the West branch main stream and remove all blockages including debris and in-stream alders for 1.5 km • Identify no more than 12 areas for possible brush mats placement • Assess Canopy cover and buffer zone <ul style="list-style-type: none"> a. Locate, GPS and photograph areas identified for potential work • Use maps and creek walks to determine groundwater upwelling that trout could potentially be using for spawning habitat • Follow up Redd Surveys • Monitor areas where Redd were found • Locate and GPS and photograph run-off and garbage dump • Conduct surveys of the watershed following heavy rain events

	<ul style="list-style-type: none"> • Explore options to mitigate these issues including working with Dept. of Transportation, Agriculture and local land-owners
<p>Augustine Cove- Cape Traverse watershed</p> <p>1. Uninterrupted fish passage for 1.5 km length of Cape Traverse branch main river</p>	<ul style="list-style-type: none"> • Assess the condition of the West branch main stream and remove all blockages including debris and in-stream alders for 1.5 km • Identify no more than 12 areas for possible brush mats placement • Assess Canopy cover and buffer zone <ul style="list-style-type: none"> ○ Locate, GPS and photograph areas identified for potential work • Use maps and creek walks to determine groundwater upwelling that trout could potentially be using for spawning habitat • Follow up Redd Surveys • Monitor areas where Redd were found • Locate and GPS and photograph run-off and garbage dump • Conduct surveys of the watershed following heavy rain events • Explore options to mitigate these issues including working with Dept. of Transportation, Agriculture and local land-owners
<p>1. Monitor Water Quality</p>	<ul style="list-style-type: none"> • Continue water sampling at 17 SSWA sites • Collect data on: <ul style="list-style-type: none"> ○ Nitrates ○ Dissolved Oxygen ○ Water Temperatures ○ Conductivity ○ Total Suspended solids ○ pH

	<ul style="list-style-type: none"> • Water chemistry analyses necessary when nitrates level is more than 10 mg/L or presence of disturbance in the water quality
2. Stream Assessments	<ul style="list-style-type: none"> • Perform stream walks in the Spring and Fall season <ul style="list-style-type: none"> ○ Westmoreland West – Balaklava Rd West upstream • Identify future work needed • Re-assess previous work done in SSWA area
Goal #2: Healthy forested riparian zone at least 15m wide along the full length of SSWA rivers	
Objectives	Activities
1. Increase the area of riparian zone under stewardship agreements	<ul style="list-style-type: none"> • Provide outreach and educational material to at least 10% of agricultural landowners about ALUS and other similar programs • Offer to develop collaborative relationships between SSWA and landowners to facilitate habitat and watershed restoration • Designate ecologically significant areas to FFW and INT
2. Enhance/diversify existing riparian zone with 20 trees, first parcel #437913 (approx. 500m stream length)	<ul style="list-style-type: none"> • Identify open areas and plant 20 trees along the stream • Assess 500m of stream length for survival rates • Replace any dead plant
3. Enhance/diversity existing riparian zone along East branch of Tryon River	<ul style="list-style-type: none"> • Assess by foot in the Spring creek walk and identify and mark open spaces • Plant 200 trees and shrubs on open areas along the stream length
4. Enhance/diversify existing riparian zone along West branch of Tryon River	<ul style="list-style-type: none"> • Assess by foot in the Spring creek walk and identify and mark open spaces • Plant 200 trees and shrubs on open areas along the stream length

<p>5. Enhance/diversify existing riparian zone along AC/CT</p>	<ul style="list-style-type: none"> Assess both areas of AC/CT watershed for enhancement of riparian and buffer zones during early season walk
<p>Goal #3: Increase forest cover by increasing tree and shrub planting in watersheds by 10% over previous year</p>	
<p>Objectives</p>	<p>Activities</p>
<ol style="list-style-type: none"> 1. Identity priority areas that could be converted to forest (e.g., high-risk or marginal agricultural lands) 2. Assess existing trees and shrubs planted previous season 	<ul style="list-style-type: none"> GPS and map priority areas for conversion to forest Prune existing trees and shrubs Replace any dead trees and shrubs Wrap all vulnerable trees Assess existing trees and shrubs for mortality and survival rates
<ol style="list-style-type: none"> 3. Increase the area of forest under stewardship agreements 4. Explore the use of iTree database tool 	<ul style="list-style-type: none"> Refer ecologically significant areas to FFW or INT for possible natural areas designation Provide outreach and educational material to at least 10% of landowners about provincial Forest Enhancement Program Promote forest management planning to landowners via one-one meetings, community events and social media Distribute trees and shrubs to landowners and encourage tree planting Implement iTree database tool that gives dollar amount of ecosystems services in our watershed
<ol style="list-style-type: none"> 5. Increase forest cover in each watershed <ol style="list-style-type: none"> a. DeSable Watershed b. Westmoreland Watershed c. Tryon Watershed d. AC-CP Watershed e. Seven Mile Bay Watershed 6. Increase purchase of trees by 10%; watershed distribution will be at 	<ul style="list-style-type: none"> Use total numbers planted last year, add 10% and then plant the 110% but distribute them throughout the different watersheds (i.e., 2020 SSWA planted 230 trees/shrubs) Increase in 10% the number of trees and shrubs given to community and SSWA members.

manager's discretion based on assessments	
Goal #4: Implement best management practices to stabilize shoreline erosions along 10% of the SSWA coastline (i.e., 1 km in total)	
Objectives	Activities
1. Camp Abegweit, property #580415 – approx. 137 m length along Northumberland Strait	<ul style="list-style-type: none"> • Monitor shoreline project off-season to determine winter effects • Document changes in coastline • Plant 50 shrubs salt-tolerant along the shore • Plant 50 trees salt-tolerant in the woods
2. Tryon Point Rd, property #208371 – approx. 60m estuary bank length	<ul style="list-style-type: none"> • Assess site for winter damage • Assess falling trees in the bank • Work with the Dept. Environment about options to reduce shoreline damage
3. Government property #207811 – approx. 240 m bank length 4. Expand the project along Victoria estuary bank – additional approx. 260 m bank length	<ul style="list-style-type: none"> • Maintain strategic relationship with Victoria Council to ensure our work on this park is complementary
5. Hampton Beach Property – approx. 200m section of shoreline	<ul style="list-style-type: none"> • Inspect plants survival rate from previous years • Plant 150 Marron grass above high tide • Plant 100 roses bushes along the shoreline where needed • Re-educate landowners on the importance of, and approaches to, preventing erosion, including leaving an uncut grass strip along the shore, planting shrubs, etc.

6. Augustine Cove, property #748020	<ul style="list-style-type: none"> Plant 50 salt-tolerant shrubs along the shoreline where needed
<p>7. Partner with UPEI Climate Lab to monitor sea level rise, shoreline erosion and weather patterns in our watershed area</p> <p>8. Initiate an awareness campaign for all coastal property owners to educate about erosion</p>	<ul style="list-style-type: none"> Continuous measurements of coastal erosion pins placed in SSWA region Enlist at least 20 property owners to engage in coastal erosion awareness
Goal #5: Increase availability of natural and artificial wildlife habitat to support wildlife populations	
Objectives	Activities
<p>1. Provide nesting/feeding sites for birds</p> <p>2. Seasonal cleaning of the 81 existent nesting boxes</p>	<ul style="list-style-type: none"> Seasonal cleaning/replenishing of nesting material of nest boxes Maintenance/repair of existing boxes Identify areas to add boxes to SSWA inventory Map locations of boxes Promote community engagement by nesting boxes in their property
3. Perform bat population monitoring and enhancement	<ul style="list-style-type: none"> Encourage placement of bat boxes in appropriate locations, using data generated through bat monitoring Perform acoustic monitoring in collaboration with the Watershed Alliance Perform bat colony counts if/when colonies are identified
4. Increase pollinator populations	<ul style="list-style-type: none"> Create a pollinator garden in each of the watershed areas in SSWA Work with two elementary schools in our region for educational purposes
5. Amphibians and Reptiles populations	<ul style="list-style-type: none"> Collaborate with UPEI student to perform amphibian population surveys

	<ul style="list-style-type: none"> • Perform research about how to establish a long-term amphibian surveillance program. • Submit any amphibians or reptiles found dead to the Canadian Wildlife Health Cooperative for disease testing
6. Increase natural wildlife habitat	<ul style="list-style-type: none"> • Promote natural feeding/nesting habitat through native tree and shrub planting
Goal #6: Actively engage watershed residents through SSWA activities and outreach	
Objectives	Activities
<ol style="list-style-type: none"> 1. Encourage watershed residents to actively utilize the parks and ponds 2. Enhancement of public areas to attract public participation 	<p>Linden Hill Pond</p> <ul style="list-style-type: none"> • Assess dam • Maintain lawn • Maintain lookouts, park furniture, signage and fishing platforms <p>Westmoreland River Nature Park</p> <ul style="list-style-type: none"> • Create a shelter for park visitors (gazebo), and include interpretative educational wildlife material on site • Improve existing walkways to make the park as barrier-free as possible • Inspect lookouts and fishing platform for maintenance • Research opportunities for removing silt from pond <p>Tryon Trail</p> <ul style="list-style-type: none"> • Remove downed trees • Prune and wrap trees • Improve trail paths and wood area • Maintain lookouts, park furniture, signage and fishing platforms

- Install viewing platform

Lord's Pond

- Reposition and secure floating bridge
- Inspect wooden walkway and fishing platform for maintenance
- Maintain Women's Institute flower garden
- Check pond area for garbage and assist with grass-cutting
- Maintain lookouts, park furniture, signage and fishing platforms

Webster's Pond – AC/CT

- Assess dam
- Maintain lawn

Camp Abegweit – Richard Point

- Fell dead and de-branch downed trees to be used as construction materials for nurse logs and mulch for paths
- Plant uplands where needed
- Continue development of walking trail area

Noonan's Wetland – Seven Mile Bay

- Cut bulrushes at boat launch up to 10m on either side, with a "V" formation from edge of water

	<ul style="list-style-type: none"> • Grass cutting of fishing ladder trail • Install signs in area pertaining to hunting season and any other signs pertaining to important information regarding the Borden-Carleton wetlands <p>Old Mill Bridge, Crapaud</p> <ul style="list-style-type: none"> • Install Outdoor Classroom on Old Mill bridge, Crapaud • Trail winding with benches and wildlife signages
<p>3. Increase Association membership by 10 members this year</p>	<ul style="list-style-type: none"> • Provide easily accessible membership renewal forms at public events and in specified locations (e.g., post office)
<p>4. Host at least 10 diverse public events for residents/community to participate (All events are subject to change regarding local COVID-19 rules)</p>	<ul style="list-style-type: none"> • “SWIM FOR THE SOUTH SHORE” – Fundraiser marathon • Crapaud Exhibition educational booth • Crapaud Exhibition Kid’s workshop booth • BioBlitz: <ul style="list-style-type: none"> ○ WRNP ○ Noonan’s Wetland • Scavenger Hunt at Merry Pop-Ins After School Program • Snowshoeing and interpretative trail walk at Tryon Trail • Educational watershed displays at Tryon Museum • Autism Society-sponsored “Wildlife Day” • Camp Abegweit educational season • Noonan’s wetland educational event

	<ul style="list-style-type: none"> • Coastal Erosion Awareness public meeting with SSWA residents • Family day at Linden Hill: Workshops on yoga and photography for seniors
5. Maintain regular communication with residents and a high profile within the watershed generally	<ul style="list-style-type: none"> • Active Facebook page and Instagram with regular updates on SSWA events and activities • Active SSWA Summer Blog with work completed during the season • Active SSWA website • Publish three times per year the TIDINGS newsletter for residents • Have at least two stories in local media • Promote 9th annual 2021 SSWA Photo Contest • Publish 8th edition of Water for Health brochure • Implement new SSWA Corporate Donor Plan • Develop and maintain membership marketing strategy to engage community and obtain corporate donors • Provide updates at South Shore Chamber of Commerce meetings
Goal #7: Develop and maintain government partnerships on watershed issues	
Objectives	Activities
1. Partner with local and provincial governments to prevent negatively effects on watershed issues	<ul style="list-style-type: none"> • Communicate with Provincial Government on conditions of road bridges, sediment traps, and culverts • Partner with Borden-Carlton Council <ul style="list-style-type: none"> ○ Creation and maintenance of a public space at Noonan’s Wetlands ○ Participation at council meetings • Partner with Crapaud Council and Victoria Council

	<ul style="list-style-type: none"> ○ Publication of water quality data from Sewer Commission ○ Conservation of estuary and coastal areas
Goal #8: Restoration of ecological integrity of SSWA environment	
Objectives	Activities
1. Increase the ongoing eradication of invasive plant species by 50 % at specific SSWA locations	<ul style="list-style-type: none"> ● Increase public awareness of invasive species ● Identify new species entering the watershed ● Removal of invasive species <ul style="list-style-type: none"> ○ Japanese knotweed: remove and smother areas from SSWA parks ○ Purple loosestrife: cut and bag all flowers located ○ Wild Cucumber: pull down and uproot all plants located ○ Deadly nightshade (Bella donna): removal from parks and trails ○ Glossy buckthorn: removal and tarped from Tryon Trail ○ Giant hogweed: removal from property #208165
2. Estuary, Wetlands and Spring 3. Species at risk in SSWA area	<ul style="list-style-type: none"> ● Monitor and maintain healthy estuary and springs throughout the watershed surveys ● Conduct surveys for species at risk in SSWA region <ul style="list-style-type: none"> ○ Collaborate with Island Nature Trust with surveys ○ Maintain weekly species inventory for each watershed