

# Kennebecasis Watershed Restoration Committee Year End Report – 2012



Prepared by:  
Ben Whalen, Project Manager  
December 2013

# TABLE OF CONTENTS

Table of Contents.....	i
1.0 INTRODUCTION.....	1
2.0 FINANCIALS.....	2
2.1 Revenue and Funding.....	2
2.2 Overview of Expenses.....	2
3.0 HUMAN RESOURCES.....	3
4.0 2012 ACTIVITIES.....	4
4.1 Monitoring Efforts.....	4
4.1.1 <i>Water Sampling</i> .....	4
4.1.2 <i>Stream Temperature Profiling</i> .....	4
4.1.3 <i>Flow and Discharge Analysis</i> .....	4
4.1.4 <i>River Watch Activities/Snow Pack Monitoring</i> .....	5
4.1.5 <i>Electro-fishing Activities</i> .....	5
4.2 Restoration Efforts.....	5
4.2.1 <i>Riparian Zone Planting</i> .....	6
4.2.2 <i>Riparian Fencing Effort</i> .....	6
4.2.3 <i>Bioengineering Bank Stabilization</i> .....	6
4.2.4 <i>ATV Trail and Aquatic Corridor Enhancement</i> .....	7
4.3 Public Engagement.....	8
4.3.1 <i>Fly Fishing Workshop</i> .....	8
4.3.2 <i>Youth Angling Day Camps</i> .....	8
4.3.3 <i>On-line Creel Survey</i> .....	9
4.3.4 <i>Building Biodiversity</i> .....	9
4.3.4 <i>Shoreline Clean Ups</i> .....	9
4.3.5 <i>Water and Willows Events</i> .....	10
5.0 COOPERATIVE LANDOWNERS.....	10
6.0 CONCLUSIONS.....	11
APPENDIX A - KWRC Committee Members.....	ii
APPENDIX B – 2012 Volunteer Event Reports.....	iv
APPENDIX C - 2012 Public Presentation Reports.....	xv



## 1.0 INTRODUCTION

The Kennebecasis Watershed Restoration Committee (KWRC) is composed of various provincial and federal departments, local municipalities and local interest groups. Beginning in 1994, the committee has worked on enhancing the general health of the Kennebecasis Watershed, focusing on water quality and fish habitat within the greater Kennebecasis Watershed (Figure 1). Surveys were completed to identify the type and location of major stream habitat problems, and guide in-stream work focused at addressing these problems and improving the aquatic conditions of the watershed. Work has been carried out to decrease erosion, enhance fish habitat, improve the riparian zone habitat and educate the public on environmental issues.

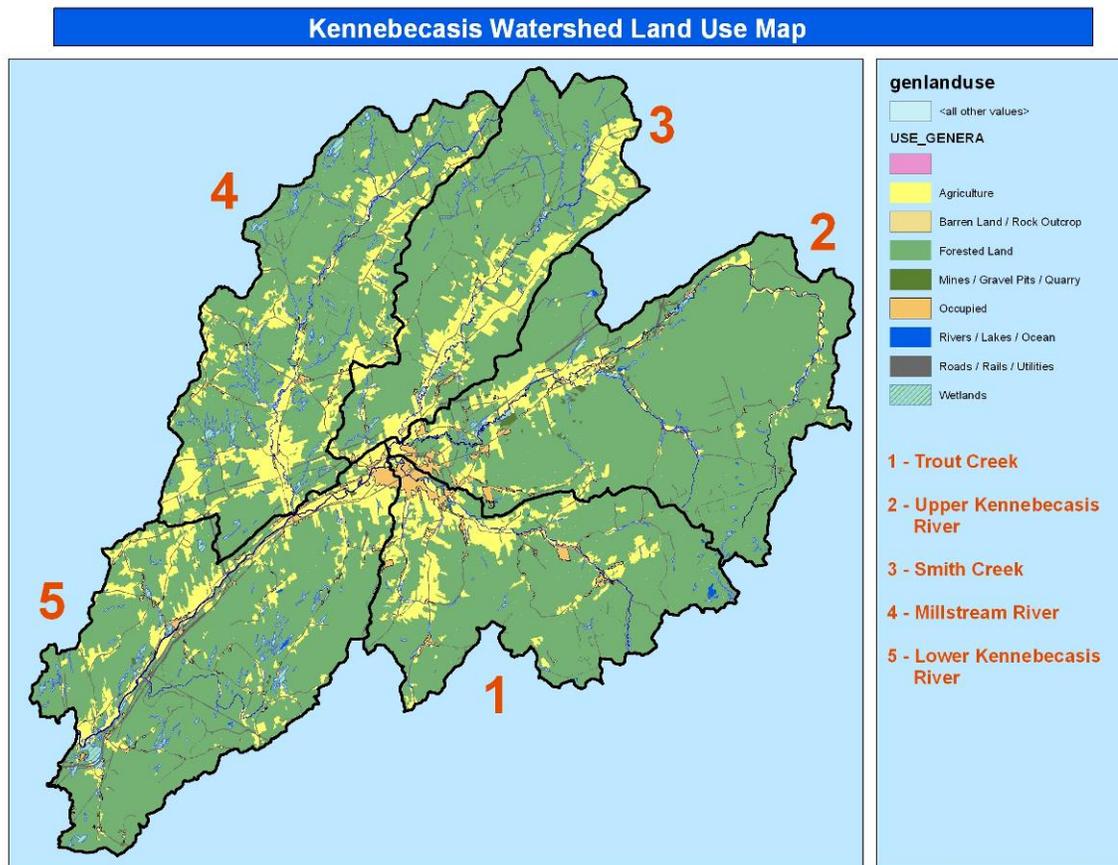


Figure 1: Map illustrating the Kennebecasis watershed and its sub-watersheds. Note that the Kennebecasis Bay is not shown.

Since 1994, over 520 stream enhancement structures have been installed, 55km of fencing has been erected, 3.6km of banks have been stabilized, fish populations have been monitored and water quality assessments have been completed. The ultimate goal of the committee is to re-establish the natural habitat of the Kennebecasis Watershed in order to maintain clean, healthy waterways and properly functioning ecological habitats.

This report will outline the projects that the KWRC completed in 2012 as well as provide a brief overview of the financial status of the KWRC. This document is intended as an overview, further detail on each project can be found with the project reports which can be found in the appendix.

## 2.0 FINANCIALS

### 2.1 Revenue and Funding

In 2012 the KWRC was successful in attracting 18 different funding partners. These partners consisted of all three levels of government, including 3 municipalities. Funds were also received from corporate partners and non-government funding agencies. In total our revenue through 2013 was \$169,053.85. Details can be seen in Table 1 below.

Table 1: Revenue by funding source 2012

<b>Funding Source</b>	<b>Amount Granted</b>	<b>% revenue</b>
New Brunswick Wildlife Trust Fund	\$37000	22%
New Brunswick Environmental Trust Fund	\$50,000.00	30%
EcoAction	\$21,350.00	13%
Atlantic Salmon Conservation Fund	\$12,000	7%
HST Rebate previous year	\$4,473.59	3%
Canada Summer Jobs	\$7102	4%
NB Student Employment Experience Development	\$8878.20	5%
Cargill	\$10,000	6%
PCS HADD 2011	\$2,350.00	1%
Kennebecasis Naturalist Society	\$100.00	0%
Active Communities Grant (GNB)	\$1,500	1%
Royal Bank (Sussex)	\$150.00	0%
TD Friends of the Environment Foundation	\$2,050.00	1%
River Watch 2010-2011	\$3,559.76	2%
SNB Wood Co-op	\$190.00	0%
Town of Hampton	\$2,500	1%
Village of Sussex Corner	\$2,500	1%
Village of Norton	\$500	0%
Sussex Fish and Game	\$2,850.30	2%
	<b>\$169,053.85</b>	<b>99.00%</b>

### 2.2 Overview of Expenses

The expenses shown in Table 2 below outline what funds were spent through the fiscal year 2012. In the same time frame the KWRC had \$155,430.07 in revenues. The discrepancy from Table 1 to Table 2 comes from the different time constraints on the numerous projects undertaken. The human resources expense has risen slightly in cost but in 2012 this cost is a greater percent of the total expenses compared to 2011. This is attributed in large part to the reduction in rock material and excavator time due to the bioengineering effort undertaken.

Table 2: Overview of 2012 Expenses

<b>EXPENSE</b>	<b>AMOUNT</b>	<b>%</b>
General Expense	1,074.30	1%
Accounting & Legal	128.31	0%
Meeting Expense	439.86	0%
Advertising & Promotions	2,228.49	1%
Consultant Fees	125.00	0%
Lab Fees	7,800.00	5%
Courier & Postage	81.32	0%
Insurance	985.00	1%
Interest & Bank Charges	217.83	0%
Office Supplies	807.24	1%
Software Upgrades	32.50	0%
Professional Development	2,277.44	1%
Telephone	942.89	1%
Restoration contribution	2,948.05	2%
Materials	12,672.19	8%
Equipment	15,159.05	10%
Travel	1,102.90	1%
<b>Total General Expense</b>	<b>49,022.37</b>	<b>32%</b>
<b>Payroll Expenses</b>		
	<b>AMOUNT</b>	<b>%</b>
Wages & Salaries	94,203.16	61%
EI Expense	2,523.10	2%
CPP Expense	4,355.02	3%
WCB Expense	99.50	0%
Employee Benefits	3,766.88	2%
<b>Total Payroll Expense</b>	<b>104,947.66</b>	<b>68%</b>
<b>TOTAL EXPENSES</b>	<b>153,970.03</b>	<b>100%</b>

### 3.0 HUMAN RESOURCES

Developing strong conservation minds is a goal of the KWRC and through 2012 we had a number of young students working as habitat technicians. Four seasonal students were hired through the summer and we managed to keep one of them until September. We also contracted out some labor to aid in completion of the ATV corridor project and then again through the winter to help coordinate some of the education programs. Our Restoration Coordinator was provided 10.5 months of full time work while the Project Manager was here for the full year. As noted in Table 2, our total human resources cost made up 68% of our budget with an expense of \$104,947.66. This keeps in line with past years values.

## 4.0 2012 ACTIVITIES

### 4.1 Monitoring Efforts:

As in past years the KWRC developed a strong monitoring program that would add data to our already impressive water quality and physical habitat spread sheets. The effort was completed with strong technical guidance from DELG who over saw the work and analyzed the water quality samples.

- 4.1.1 Water Sampling - Through the summer of 2012 the KWRC collected monthly grab samples from 11 sampling stations throughout the watershed. A total of 60 samples, including the appropriate number of duplicates were sent to the Department of Environment's Analytical Services Laboratory in Fredericton for analysis. A 2012 Water Quality Report was generated from these results and submitted to DELG for their records. This report can be found on our website.



*Photo 1: Students were provided great work experience by being shown how to properly take water samples.*

- 4.1.2 Stream Temperature Profiling – Continuing a partnership with Agriculture and Agri-Food Canada the KWRC collected stream temperature data on three systems through the summer of 2012. Walkerville Stream was monitored as a way to gauge the success of our riparian restoration effort on that system. We established some baseline data for Shannon Brook, and collected data for Trout Creek. The temperature profiles were presented in a report which can also be found on our website.
- 4.1.3 Flow and Discharge Analysis - In 2012 the KWRC undertook a stream flow analysis of the main arteries of the Kennebecasis Watershed: Millstream, Smith Creek, Trout Creek and the upper reaches of the Kennebecasis River. Data was collected in an attempt to collect baseline data on stream flows and water volume moving through the system. The data was then compared to water flow levels that were recorded at the Environment Canada hydrological station located on the lower reach of the Kennebecasis River in Apohaqui, New Brunswick. Between May and August of 2012 KWRC staff collected data on the average flow, width and depth for the selected sites. The KWRC intend to



continue this data collection over the coming years to provide a picture of stream discharge rates at the select sampling sites. In addition to creating a baseline discharge rate for the various systems, this data will help the KWRC to understand the relationship between changing land use and discharge rates. It will also provide information on the relationship between rainfall events and the ability of local topography to buffer potential flooding. The report for this activity is also posted on our website.

4.1.4 River Watch Activities/Snow Pack Monitoring – This is a continuation of our past River Watch and Snow Pack monitoring activities. Working in cooperation with DELG staff, the KWRC make scheduled checks on ice and run off conditions across the watershed. The KWRC also take regular core samples of snow conditions, at 8 sites, across not only our watershed, but the Canaan and Petitcodiac as well. The results of these samples are provided to DELG who generate models for run-off prediction and potential flooding.

4.1.5 Electro-Fishing Activities - The Canadian Rivers Institute once again were collecting data on slimy sculpin within our watershed. Our staff assisted in this activity and will be provided access to any reports

created as a result. In the future the KWRC should consider attaining the resources to provide such a service to potential clients who require this kind of assistance. Our staff is well versed on the process and this could prove to be a revenue generator.



*Photo 2: KWRC staff assist the CRI in collecting slimy sculpin on the Kennebecasis River.*

#### 4.2 *Restoration Efforts:*

Restoration is still the key component to the success of the KWRC. In 2012 we utilized new techniques to stabilize eroding stream banks. The technique, bioengineering restoration, allowed us to more fully engage volunteers throughout the process. We also engaged a new stakeholder in our ongoing



efforts by partnering with the Sussex Valley ATV Club to improve trail and stream conditions in Turkey Hollow, an area that lies in the Cedar Camp Brook catchment area. Our 2012 restoration efforts also had some of the regular riparian enhancement work which was completed on the Sheck Brook thanks to support from Cargill and a partnership with Crosswinds.

4.2.1 Riparian Zone Planting: Twenty two landowners were engaged through our tree planting efforts in 2012 on various sites across the watershed. The number of trees planted is down overall due to the fact that we spent a great deal of time harvesting willow stakes for our bioengineering efforts this past year. In total we planted 7128 trees through the planting season. This brings our total number of trees planted to more than 215,000 since we began planting in 1994. Our diversity in 2012 has continued to improve seedlings, potted stock, and caliper trees being planted and a number of species being used where appropriate.



*Photo 3: With help from Cargill and Crosswinds the KWRC planted trees along Sheck Brook in the Millstream River Sub-watershed.*

4.2.2 Riparian Fencing Effort: Fencing is an important component of our riparian enhancement work. In an agricultural setting, if the fence isn't present, our planting effort would soon disappear. Through 2012 the KWRC installed 2km of single strand electric fence at Sheck Brook to protect the more than 3000 trees planted there. This included maintaining 3 fording sites.

4.2.3 Bioengineering Bank Stabilization: Bioengineering is a method using living materials to stabilize an eroding stream bank. The

KWRC used willow stakes, fascine bundles (made from willow), and wattle fencing (again made from willow) to stabilize three severely eroding stream banks. The benefit of this type of activity is the reduced need to place heavy equipment and rock material along the stream. Further, volunteers can be used to harvest the abundance of willow stock required to complete these tasks. In all, the KWRC stabilized more than 220m of eroding stream bank. Riparian zone enhancement sites were created on the Millstream, Smith's Creek, and Trout Creek drainages. Further details on this effort can be found in our NB Wildlife Trust Fund Report which can be requested from our office.

- 4.2.4 ATV Trail and Aquatic Corridor Enhancement: This project component for 2012 is a new direction for the KWRC. With a strong partnership built with the Sussex Valley ATV Club the KWRC was able to realign approximately 120m of ATV trail and provide a better riding experience and improve ecological conditions at the site. The project included the installation of crib walls, realigning the trail, installing a bridge, and installing trail signage. A full report on this project can be attained by request to our office.



*Photo 4: The bridge in Turkey Hollow keeps ATVs from travelling 15m down the stream to cross the creek and the cribbing keeps high water flows from exiting the channel onto the trail, creating a win-win.*



### 4.3 Public Engagement

Anglers and others who use our rivers as a recreational outlet are considered an asset by the KWRC. In 2012 we continued our efforts to engage them in our restoration and monitoring activities. Through teaching conservation angling techniques and preparing bird watch studies our aim is to improve understanding of the ecological and economical value of healthy ecosystems. An educated and engaged public will provide ongoing support and conservation for the watershed they value. Our public presentation event reports and the volunteer event reports can be found in the appendix of this report.

- 4.3.1 Fly Fishing Workshop: The 2012 version of the Beginner's Fly Fishing Workshop was modelled very closely after the successful 2011 version. While not as well attended the event was still considered a success and further delivered our message of conservation minded angling practices and informed those who attended about our "No Kill" section of river.



*Photo 5: Participants to our 2<sup>nd</sup> Annual Beginner's Fly Fishing Workshop listen intently to Robin Doull as he discusses gear and tackle*

Nine participants listened as Robin Doull and Art Marr (Sussex Fish and Game Association members) provided valuable information on gear and tackle, habitat, regulations, and techniques for fly fishing. On the second evening of the event the participants were provided an opportunity to try their new skill on the Kennebecasis River. The KWRC attained an event permit, set up a tent and barbeque, and admirably hosted the participants while they fished, many with gear and tackle which was provided by the KWRC. An event/presentation report can be found in the appendix.

- 4.3.2 Youth Angling Day Camps: The KWRC hosted 2 youth angling camps with the support of the Town of Sussex and the Apohaqui/Lower Millstream Recreation Committee. A registration process was developed and our expectations were to receive 15-20 kids at each event. We had 30 kids register for each. The event was really well received by parents who didn't regularly fish or didn't fish at all with their children. Each child who participated was given an information package, provided with

a presentation, provided with gear and tackle for the day and participated in 2 hours of angling on a stretch of nearby river.

4.3.3 On-line Creel Survey: To better track our angler's efforts and catches the KWRC wished to use social media and an online creel survey. Some research was done to determine what the survey should look like and how best to host it. The survey is hosted on our own website and we advertise the survey through our public events and social media pages. It was important to keep the survey short and easy to fill out. We also discussed the presentation of results with the Department of Natural Resources and will work with them to ensure our data is compatible with their fish health data. The survey can be found at: <http://www.kennebecasisriver.ca/creelcensus.html>

4.3.4 Building Biodiversity: Through discussions with members of the Kennebecasis Naturalist Society and Nature NB the KWRC discovered that identification of wildlife is a dying skill set, and membership to the Naturalist clubs is aging with few young people joining the clubs. To help address these issues and to improve our riparian enhancement work we engaged a number of youth groups in the watershed to build and place bird and duck boxes. One hundred and ten volunteers provided 179 hours to the project. In total there were 35 bird boxes and 17 duck boxes built by the young volunteers, with more than 20 of those boxes being placed along our project sites while the rest were donated to the groups who built them. KWRC staff will revisit the placed



boxes regularly to see if they are being used.

*Photo 6: Members of the St. Marks Cubs and Scouts helped build bird and duck boxes as part of our "Building Biodiversity Project" which resulted in more than 175 volunteer hours.*

4.3.5 Shoreline Clean Ups: "The Great Canadian Shoreline Cleanup" has become a mainstay for the KWRC and our 2012 event again was well attended with 29 people donating more than 80 hours of service. On a poor note we still removed a great deal of garbage (187kg) from the rivers in and around the Sussex area.



4.3.6 Water and Willows Events: Like our shoreline clean up events, our “Water and Willow” events have also become a solid tool in engaging the public in our restoration efforts. This year would prove valuable due to the fact that we were also going to be performing bioengineering restoration work. This resulted in two events being hosted; one where volunteers harvested willow stock from Trout Creek in the spring, and one where volunteers installed fascine bundles along an eroding stream bank on the Millstream River later in the early part of summer.

## **5.0 COOPERATIVE LANDOWNERS**

Cooperation among our stakeholders is an important aspect of what makes the KWRC a successful watershed group. Our ability to provide win-win projects to further improve the watershed ecosystems allows us to build new partnerships and maintain the old ones. In 2012 we had a number of cooperative landowners work with us. Some were new partners, others we’ve worked with in the past, but everyone benefited from being engaged in the process.

Farmers have long been supportive of our efforts and we have been able to create a win-win scenario on most of our projects where our agriculture stakeholders are involved. In 2012, using our bioengineering techniques we were able to work with three farms to stabilize eroding stream banks. The key here was the reduced cost, public engagement, and reduction in loss of topsoil to the stream.

We also formed an agreement with JD Irving Ltd to work on their woodlands in the Cedar Camp Brook area. They already had a trail agreement with the SVATV Club but allowed us to slightly realign the trail to improve overall conditions. This creates a better public perception for Irving, a more enjoyable ride for the SVATV Club members, and improves ecological function of the small stream.

The table on the next page, outlines the landowners and the work completed on their properties in 2012.



Table 3: Landowners engaged in restoration activities in 2012

Sub-Watershed	Land Owner	Activity
Smith's Creek	Joel McDermott	Bioengineering (wattle fencing) and riparian planting
Millstream River	Don Folkins	Bioengineering (fascine bundles) and riparian planting
Trout Creek	John McGibbon	Bioengineering (willow staking) and riparian planting
Trout Creek	JD Irving Woodlands	Corridor enhancement
Millstream River	Ron and Cora Wesselius	Riparian Zone enhancement
Upper Kennebecasis	John Malone	Riparian tree planting
Upper Kennebecasis	Greg McLeod	Willow harvesting, riparian tree planting
Lower Kennebecasis	Don Bettle	Riparian Tree planting
Lower Kennebecasis	Jeff Floyd	Riparian Tree planting
Lower Kennebecasis	Ken Lisson	Riparian Tree planting
Lower Kennebecasis	Lloyd Secord	Riparian Tree planting
Trout Creek	Barry Horne	Riparian Tree planting
Trout Creek	Walkerville Farms	Riparian Tree planting
Trout Creek	Bill Anderson	Riparian Tree planting
Trout Creek	Town of Sussex	Riparian Tree planting
Smith's Creek	Danny Clain	Riparian Tree planting
Smith's Creek	Jason Daynes	Riparian Tree planting
Smith's Creek	Jack Cogger	Riparian Tree planting
Smith's Creek	Reg King	Riparian Tree planting
Smith's Creek	George Mason	Riparian Tree planting
Millstream River	Sean Moffett	Riparian Tree planting
Millstream River	Carol McDonald	Riparian Tree planting

## 6.0 CONCLUSION

Overall 2012 was another successful year for the KWRC. The large number of landowners and volunteers engaged means that our impact will be long term and demonstrates that our past efforts are making an impact as well. People are starting to realize that we need to more proactively take part in the management of our surface water resources and this will bode well for the watershed well into the future.

The KWRC will continue to seek out funding and viable projects moving forward. The new relationships formed in 2012 will be nurtured and continue on, and those formed in the past will continue to grow and mature like the trees we have placed along our waterways. Bioengineering appears to be a viable way of restoring eroding stream banks and the KWRC will now add this tool to our tool box and maybe revise and adapt it in some instances to better suit a specific site.

Our on-line creel survey will become a regular tool for engaging anglers and for monitoring catch/effort data. Further we will continue to operate our website which receives modest traffic, along with our Facebook and YouTube sites. These last two sites have developed a small following and allow us to easily share stories and success and we feel that we have had a great deal to share.



*APPENDIX A*

**Kennebecasis Watershed Restoration Committee  
Members**



**Kennebecasis Watershed Restoration Committee**

MLA Kings East

Town of Sussex

Village of Sussex Corner

Royal District Planning Commission

Potash Corporation of Saskatchewan

Department of Fisheries and Oceans

Kings County Soil and Crop Improvement Association

N.B. Soil and Crop Improvement Association

N.B. Department of Natural Resources

N.B. Department of Agriculture and Aquaculture

N.B. Department of the Environment

N.B. Department of Transportation

Sussex Fish and Game Association

Canadian Forest Service

Town of Hampton



***APPENDIX B***

**Volunteer Events  
Reports  
2012**



# Volunteer Event Report Form

---

DATE: March 18, 2013  
 REPORTER: Chris McKnight

Event Location:	Walkerville Farms / Wards Creek	
Project Name:	Building Biodiversity – Bird Box Build 1	
Coordinates	N	W

Activity Undertaken	Stream Clean Up	
(check one)	Riparian Planting Event	
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other – Bird Box placement	X

Number of people present	17
Number of groups represented (please name groups)	Sussex Cub group (13 girls & 4 leaders)
Number of hours volunteered	1.5
Result of Effort (# of trees planted, km of stream cleaned, etc.)	The group installed 1 duck box and 5 bird boxes.
Estimated cash value of volunteer effort	1.5hrs X 17ppl X \$10/hr = \$225

**COMMENTS ON EVENT:**

Though the participants enjoyed the outdoors experience, there was limited daylight, which made the event somewhat rushed near the end. Nails were too large for the youth to install into the trees, therefore screws and a drill would be more effective in the future. The site did not have many great areas to place duck boxes, therefore KWRC staff may have to place extras throughout the summer.



# Volunteer Event Report Form

---

DATE:  
REPORTER:

Event Location: Burton Park		
Project Name: St. Marks Cubs Willow Harvest		
Coordinates	N	W

Activity Undertaken (check one)	Stream Clean Up	
	Riparian Planting Event	
	Habitat Assessment	
Cubs harvested willow whips for bioengineering project	Water Sampling	
	Public Meeting/presentation	
	Other	X

Number of people present	11
Number of groups represented (please name groups)	St. Marks Cub Pack
Number of hours volunteered	16.5hrs
Result of Effort (# of trees planted, km of stream cleaned, etc.)	The cubs harvested a number of willow whips to be used as fascine bundles for our bio-engineering project. It is estimated that they harvested enough willows to create 50m of fascine bundles.
Estimated cash value of volunteer effort	\$165

COMMENTS ON EVENT: The event went very well but keeping the cubs focused on the task was difficult. At the end of the evening participants received a KWRC sticker, NBWTF Liscence plate and pencil, and KWRC pamphlets (ATV and Ag)



# Volunteer Event Report Form

---

DATE: June 18, 2012  
 REPORTER: Ben Whalen

Event Location:	Burton Park, Sussex, NB	
Project Name:	2012 SMS Stingers Shine Shoreline Cleanup	
Coordinates	N	W

Activity Undertaken (check one)	Stream Clean Up	X
	Riparian Planting Event	
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other	

Number of people present	13 students + 1 teacher
Number of groups represented (please name groups)	Mr. Middleton's grade 8 class from Sussex Middle School
Number of hours volunteered	2.5hrs X 14 = 35hrs
Result of Effort (# of trees planted, km of stream cleaned, etc.)	60kgs (130lbs) of garbage removed from the Trout Creek sub-watershed 14 people shown the value of not littering \$280 in kind support
Estimated cash value of volunteer effort	\$280

**COMMENTS ON EVENT:**

The event, as in the past events for this group was modestly attended by the class. Those who did show were eager up front but died out rather quickly. A good portion of the trash came from Parson's Brook which may need more attention yet above the Long Farm property. Trout Creek actually looked pretty good and the Town should be commended for their effort. Very little came out of Ward's but there is still a lot of steel coming out of the old "car bank" location.



# Volunteer Event Report Form

---

DATE: July 28, 2012  
 REPORTER: Ben Whalen

Event Location:	Don Folkins, 1091 Route 880, Berwick	
Project Name:	2012 Water and Willows	
Coordinates	N	W

Activity Undertaken (check one)	Stream Clean Up	
	Riparian Planting Event	X
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other	

Number of people present	12
Number of groups represented (please name groups)	SFG, and general public
Number of hours volunteered	36
Result of Effort (# of trees planted, km of stream cleaned, etc.)	Volunteers installed 50 linear meters of fascine bundles to aid in the stabilization of an eroding stream bank on the Millstream River.
Estimated cash value of volunteer effort	36hrs X \$12.50/hr = \$450

**COMMENTS ON EVENT:**

The day was a large success with those in attendance really getting an eye opener as to the difficulty and value of the restoration work our crews do. It was a hot and muggy day and water was provided and after about 2.5hours of working on putting in fascine bundles the volunteers were provided with a free lunch and given our handouts. The work included digging trenches, bundling willow whips, staking the bundles, burying the bundles, spreading grass seed, and spreading straw over the completed work area. The group worked well together and our staff had it organized so that it flowed well. Conversation was relaxed and engaged on the work of the KWRC.



# Volunteer Event Report Form

---

DATE: July 31, 2012  
 REPORTER: Ben Whalen

Event Location:	O'Connell Hill Park	
Project Name:	Nursery planting for surplus trees	
Coordinates	N	W

Activity Undertaken	Stream Clean Up	
(check one)	Riparian Planting Event	X
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other	

Number of people present	3
Number of groups represented (please name groups)	General public
Number of hours volunteered	7
Result of Effort (# of trees planted, km of stream cleaned, etc.)	Staff and volunteers prepped the site and staked it out, planted 1000 trees, and watered the majority of them. All trees were donated. Volunteer hours = 7hrs X \$12.50/hr = \$87.50 1000 Seedlings X \$0.85/seedling = \$820
Estimated cash value of volunteer effort	\$907

**COMMENTS ON EVENT:**

This event was called only using our email list serve at the last minute. We were fortunate enough to get three volunteers and I think this was a great test for this mechanism. It might be worth future attempts. The weather was very hot and so I ceased planting at noon to give volunteers and staff a break.



# Volunteer Event Report Form

---

DATE: August 29 – September 14, 2012  
 REPORTER: Ben Whalen

Event Location:	Turkey Hollow Trail and Aquatic Corridor Enhancement Site	
Project Name:	Trail and Aquatic Corridor Enhancement Project	
Coordinates	N	W

Activity Undertaken (check one)	Stream Clean Up	
	Riparian Planting Event	
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other	X

Number of people present	1-4
Number of groups represented (please name groups)	Sussex Valley ATV Club Sussex Rentall
Number of hours volunteered	109 man hours (\$12.50/hr) 72 hours ATVs (\$6.25/hr) 96 hours tractor w/ loader and bucket (\$18.75/hr) 32hours tractor w/ dump trailer (\$31.25/hr)
Result of Effort (# of trees planted, km of stream cleaned, etc.)	<ul style="list-style-type: none"> <li>- 82m of crib wall installed along ATV Trail to separate trail from stream bed</li> <li>- 55m of ATV trail realigned and re-bedded</li> <li>- One bridge 30' long installed</li> </ul>
Estimated cash value of volunteer effort	\$4612.50

**COMMENTS ON EVENT:**

This effort was part of the Sussex Valley ATV Clubs contribution to the improvement of their trail along a tributary to the Cedar Camp Brook. The project took a total of three weeks roughly to complete on land owned by JD Irving. Sussex Rentall donated the small tractor time and Jeff Branscombe (SVATVC Chairman) donated the larger tractor to haul fill material which we excavated using the bucket on the smaller tractor.



# Volunteer Event Report Form

---

DATE: September 22, 2012  
 REPORTER: Ben Whalen

Event Location:	8 <sup>th</sup> Hussars Arena	
Project Name:	2012 Great Canadian Shoreline Clean Up	
Coordinates	N	W

Activity Undertaken	Stream Clean Up	X
(check one)	Riparian Planting Event	
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other	

Number of people present	29
Number of groups represented (please name groups)	Guides, Brownies, Cubs, and general public
Number of hours volunteered	29 X 3 = 87hours
Result of Effort (# of trees planted, km of stream cleaned, etc.)	<ul style="list-style-type: none"> <li>- volunteers collected 180kg of litter and trash from stream banks</li> <li>- cleaned stream banks along the following               <ol style="list-style-type: none"> <li>1. Ward's Creek</li> <li>2. Trout Creek</li> <li>3. Parson's Brook</li> <li>4. Kennebecasis @ Walmart</li> <li>5. Kennebecasis @ Roachville Boat Launch</li> </ol> </li> </ul>
Estimated cash value of volunteer effort	\$870

**COMMENTS ON EVENT:**

The day was very rainy and wet and I received a number of phone calls at home letting me know people wouldn't be coming to the event. This included a cub pack from St. Marks. Despite the weather we had 29 people show up and help out with the bulk being a Girl Guide and Brownie group. There was also a handful of Cubs show up. Lots of cans and bottles were picked up along with the usual plastic bags and fast food containers. We did not hit the parking lot behind Bairds Plaza and that needs to be cleaned up again and I will try to create a custom event for a local group to clean up there. The day went well with many enjoying the event including the BBQ hotdog lunch. Sign up sheets and photo waivers are on file and pictures were posted to Facebook and will go on website.



# Volunteer Event Report Form

---

DATE: October 11, 2012

REPORTER: Ben Whalen

Event Location:	Milkstream Farms	
Project Name:	Crosswinds Planting Day	
Coordinates	N	W

Activity Undertaken (check one)	Stream Clean Up	
	Riparian Planting Event	X
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other	

Number of people present	6
Number of groups represented (please name groups)	Crosswinds
Number of hours volunteered	6 people X 3hours = 18hours
Result of Effort (# of trees planted, km of stream cleaned, etc.)	110 spruce/hemlock seedlings planted 8 caliper stock maple and spruce planted
Estimated cash value of volunteer effort	18hrs X \$12.5/hr = \$225

**COMMENTS ON EVENT:**

This event served as a volunteer event for Crosswinds where they received exposure to a project they are help support. The Crosswinds clients, who have various special needs, we're very excited to be in the field and learning new skills. They proved to be a very eager and willing group and it was refreshing to witness how excited they were to be working.

The event also served as a way to attain a photo for a cheque exchange between Crosswinds and Cargill Ltd. We will utilize the photos taken to create a good news story which will be submitted to the Telegraph Journal and the Kings County Record.



# Volunteer Event Report Form

---

DATE: October 17, 2012

REPORTER: Ben Whalen

Event Location:	Trinity Church	
Project Name:	Building Biodiversity – Bird Box Build 1	
Coordinates	N	W

Activity Undertaken (check one)	Stream Clean Up	
	Riparian Planting Event	
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other – Bird Box Build	X

Number of people present	24
Number of groups represented (please name groups)	The Trinity Girl Guide Troop (22 girls & 2 leaders)
Number of hours volunteered	1.5
Result of Effort (# of trees planted, km of stream cleaned, etc.)	The girls built 3 duck boxes and 7 bird boxes.
Estimated cash value of volunteer effort	1.5hrs X 24ppl X \$10/hr = \$360

**COMMENTS ON EVENT:**

This was a very well received event and the girls all enjoyed the event. For the first attempt at this event it went off incredibly well. The project is funded through NB WTF and TD FEF and each I'm sure will be happy with the results. It is the intention of KWRC to place the bird boxes along various riparian areas in our watershed, especially those we previously restored. This is the first of at least 3 building nights and with the response to date likely more. After pictures from this event were posted, our Facebook page received lots of traffic. This might gain support and require more evenings than anticipated. The presentation and building went well but we could use more power tools and less of the screw driver. Photos filed under My Pictures > KWRC Photos > 2012 > Trinity Guides Bird Box Night.



# Volunteer Event Report Form

---

DATE: October 29, 2012  
 REPORTER: Chris McKnight

Event Location:	St. Paul's United Church, Sussex, NB	
Project Name:	Building Riparian Diversity (bird boxes)	
Coordinates	N	W

Activity Undertaken	Stream Clean Up	
(check one)	Riparian Planting Event	
	Habitat Assessment	
	Water Sampling	
	Public Meeting/presentation	
	Other (education/engagement)	X

Number of people present	28 (6 leaders, 22 scouts/cubs)
Number of groups represented (please name groups)	(2) - Sussex Cub group - Belleisle Cub group
Number of hours volunteered	2 (6:30 pm – 8:30 pm)
Result of Effort (# of trees planted, km of stream cleaned, etc.)	28 people x 2 hours = 56 volunteer hours Constructed 3 duck boxes Constructed 7 songbird boxes
Estimated cash value of volunteer effort	6 leaders x 2 hours @ \$15 / hr = \$180 22 Cubs x 2 hours @ \$10 / hr = \$220  Total volunteer cash value: \$400

COMMENTS ON EVENT:



*APPENDIX C*

**Public Presentation  
Reports  
2012**



# Public Presentation Report Form

---

---

DATE: June 8, 2012  
PRESENTER: Ben Whalen/Chris McKnight

Presentation Location:	RBC Sussex Branch, Main Street Sussex	
Presentation Subject/Title:	KWRC Introduction and How you can Help	
Coordinates	N	W

Number of people present	Over 100 people were exposed to our signage
Handouts provided	KWRC/WTF stickers, pencils, license plates, RBC/WWF handouts, ATV and Ag pamphlets
Funding for Presentation provided by?	RBC

## COMMENTS ON EVENT:

A number of people stop by the table we had at RBC from 10 until 3pm on this Friday. We had a form for those who were interested in keeping up to date with the KWRC and more than 10 people signed it. There were more than 15 one-on-one discussions and many people were exposed to our signage and material. One individual made a \$20 contribution to the KWRC and one was interested in developing a project with us in partnership with the landowners around Mechanic Lake.

# Public Presentation Report Form

---

DATE: June 20, 20112

PRESENTER: Ben Whalen

Presentation Location:	Crosswinds Center, Leonard Drive, Sussex	
Presentation Subject/Title:	Introduction to the Kennebecasis River	
Coordinates	N	W

Number of people present	38
Handouts provided	ATV and AG pamphlets, Illegal Dumping hotline bookmark, WTF Pencils, and recycled sneaker keychains
Funding for Presentation provided by?	ETF

## COMMENTS ON EVENT:

This presentation was given to the Crosswinds Atkion Club members. This club is composed of individuals with special needs but most are highly functioning. It is from this group that we often get volunteers for our shoreline clean-up. This year the staff would like to have some clients participate in some work we are doing on Sheck Brook. I presented a low level introduction to what can be found on the Kennebecasis River and how the KWRC works to protect and enhance these treasures.



## Public Presentation Report Form

---

DATE: June 21, 2012  
 PRESENTER: Gerald Chaput, DFO  
 ORGANIZER: Todd Dupuis, ASF

Presentation Location:	Coastal Inn, Dieppe, NB	
Presentation Subject/Title:	Electro-fishing Workshop	
Coordinates	N	W

Number of people present	32
Handouts provided	DFO handout on electro-fishing policies and protocols. The material was basic in nature. The data entry sheets were similar to what we use and they encourage us to use their database format (which is excel) which appeared a bit complicated for what it is.
Funding for Presentation provided by?	Water Quality Monitoring

**COMMENTS ON EVENT:** The general feeling is that DFO is seeking more technical support in completing fish assessment work. No proposed partnerships were created nor sought by DFO or ASF. The discussion with other participants was likely more rewarding than the workshop itself. That being said it is worth considering attaining an electro-fisher backpack and having our staff (1 or 2) certified.

# Public Presentation Report Form

---

DATE: July 18, 2012

PRESENTER: Ben Whalen

Presentation Location:	Trinity Anglican Church	
Presentation Subject/Title:	A Trip Down the Trout Creek	
Coordinates	N	W

Number of people present	16youth 4adult supervisors
Handouts provided	ATV & Ag pamphlets, WTF pencils and license plates, book marks
Funding for Presentation provided by?	Building Biodiversity

## COMMENTS ON EVENT:

This was part of an extended after school program and I was asked to speak by Jenny Green. The kids ranged in age from 4-13 and were full of questions and enthusiasm. It was a great group who were very curious about rivers and ecosystems and the supervisors were just as interested.



# Public Presentation Report Form

---

---

DATE: August 14, 2012  
PRESENTER: Ben Whalen/Chris McKnight

Presentation Location:	Bluff Haven Farms	
Presentation Subject/Title:	Working With Farmers to Improve Aquatic Health	
Coordinates	N	W

Number of people present	40
Handouts provided	ATV, AG, WTF license plates, Site bios,
Funding for Presentation provided by?	ETF

## COMMENTS ON EVENT:

This event was part of the KCACC Forage Day. We set up a tent and table and had information available. We also had a demonstration of how our bio-engineering techniques work. Farmers from within our watershed and beyond were engaged in discussion. Many farmers felt positive about what we were trying to accomplish. Some debated whether we were implementing the proper techniques but those typically had no solution to offer.

The event offered us an opportunity to further engage the agriculture producers however most farmers were more interested in seeing the equipment demonstrations and chatting amongst themselves. The effort versus reward ratio for this event would be low and this may not be something we need to always attend but rather elect to attend dependant on what else is going on at the time of the event.



# Public Presentation Report Form

DATE: August 15-16, 2012  
PRESENTER: Robin Doull/Art Marr/Ben

Whalen/Chris McKnight

Presentation Location:	St. John's United Church Center/Upper Kennebecasis River	
Presentation Subject/Title:	"Beginner's Fly Fishing Workshop 2012	
Coordinates	N	W

Number of people present	9
Handouts provided	Participants rec'd a full package of material which included Fish 2012, KWRC pamphlets and sticker, WTF license plates and pencils
Funding for Presentation provided by?	SFG/WTF

## COMMENTS ON EVENT:

The event, though not as well attended as last years, was still very well received. Geoff Giffin from ASF was present throughout and seemed genuinely impressed. Prizes were handed out to all with a fly rod and reel being presented to one lucky participant. The event is a great way to communicate to people the benefits of conservation angling techniques and Robin did an excellent job of presenting all the material and teaching those present how to rig and cast their fly rods. Flymart.ca should be thanked for their great donation and a presentation should be made to Robin and Art Marr for their time at the event.



# Public Presentation Report Form

---

DATE: August 25, 2012

PRESENTER: Ben Whalen

Presentation Location:	Back Roads Bicycle Fest – Apohaqui Rec Center	
Presentation Subject/Title:	Restoring and Recreating in the Kennebecasis	
Coordinates	N	W

Number of people present	40+ people attended the event
Handouts provided	Hand all handouts on hand
Funding for Presentation provided by?	WTF Promoting Conservation on Kennebecasis

**COMMENTS ON EVENT:**

This event was not geared directly towards environmental conservation or even water activities but I thought it would be a good way to maybe highlight our work and efforts to a different crowd. Overall I was able to engage 9 people directly and had positive conversations with all. One person had found our geocaches very informative and fun. We had a tent with various materials on display next to our boat launch and at the event headquarters so all participants saw our logo. One person commented that they noticed a number of our signs during their bike rides, again this is a positive. In future years, if we attend and help promote this event, I suggest we not put a manned booth but rather have a table with handouts and freebies on it.

BW

# Public Presentation Report Form

---

DATE: October 25, 2012

PRESENTER: Ben Whalen

Presentation Location:	Belleisle Community Center	
Presentation Subject/Title:	Watershed Conservation: The KWRC as a Model	
Coordinates	N	W

Number of people present	35-40
Handouts provided	A number of our handouts were on a table but an exact count is not available.
Funding for Presentation provided by?	ETF/WTF

**COMMENTS ON EVENT:**

We were asked by a group of residents along the Belleisle Bay to provide them with some insight as to how to possibly start a watershed or bay conservation group. After some discussion with Sharon Cunningham, one of the organizers, I agreed to give the presentation with support from the Committee chair. The goal was to encourage the group to move forward with the formation of a watershed group and provide them with insight into how this could be done and what kind of effort it would entail. I illustrated the history of the KWRC, how we build relationships with stakeholders and funding partners, how we develop projects, and how we affect policy change. The discussion was well received.

The first question to come from the group was whether we would be interested in taking on the Belleisle Bay as part of our mandate. The Bay is roughly 30,000ha and when we add this to the Kennebecasis Bay composite we added last year we would likely then be over 200,000ha in size. I think we need to discuss this at our next meeting (Nov 28 or 29) and work out what this might look like and whether we could effectively do the work.

Someone also asked about our stance on shale gas and my response is that we make an effort to treat all stakeholders the same and work cooperatively to address issues. We ask stakeholders to be responsible and with that type of entity we perform monitoring and keep open lines of communication to work for the betterment of the watershed.

Another gentleman asked if we would also consider working in the Black River area, which I have termed in the past as the Middle Bay of Fundy Composite. I provided him the same response as the Belleisle model but this leads to the question, should we investigate a southern NB watershed group to help cover off those watersheds currently not being served.



# Public Presentation Report Form

---

---

DATE: November 7, 2012

PRESENTER: Ben Whalen

Presentation Location:	Trinity Church	
Presentation Subject/Title:	Trout Creek Ecology	
Coordinates	N	W

Number of people present	21 (18kids, 2 leaders)
Handouts provided	This not This pamphlets, WTF pencils and plates, ATV leaflet, some older FMF Posters
Funding for Presentation provided by?	WTF Promoting Conservation

COMMENTS ON EVENT: The Sussex Girl Guides asked us to come in to discuss ecology and wildlife. I provided them with a slide show which discussed various links between water quality and our own health and lifestyles. I introduced native vs invasive species concepts, fish physiology, and forest and riparian tree types. The girls were very engaged and asked some great questions and I think absorbed most of the information provided. Total time was 2hours.



# Public Presentation Report Form

---

DATE: November 9, 2012

PRESENTER: Ben Whalen

Presentation Location:	Moncton, NBSCIA "Got Water Workshop"	
Presentation Subject/Title:	Watershed Groups and Farmers Win-Win	
Coordinates	N	W

Number of people present	28
Handouts provided	This not this, Ag pamphlets were both made available.
Funding for Presentation provided by?	Promoting Conservation

COMMENTS ON EVENT: It was hoped that a large number of agriculture producers would take in this workshop but at the most there was likely only 5 or 6. I provided an half hour presentation on the benefits farmers can see through partnering or engaging their local watershed group. The best take away for me on attending this was a conversation with DELG staff on the RiverWatch Program. Overall, it was not a great event for farmers as the agenda was to tight and weak for them, however, for government staff and practitioners there was some interesting information provided.



# Public Presentation Report Form

---

---

DATE: November 21, 2012

PRESENTER: Ben Whalen

Presentation Location:	KWRC office	
Presentation Subject/Title:	Watershed Monitoring: Getting it Done With Little	
Coordinates	N	W

Number of people present	23
Handouts provided	None
Funding for Presentation provided by?	Atlantic Salmon Conservation Foundation

COMMENTS ON EVENT: This presentation was done via webinar and was a learning experience for myself. The webinar delivery method is great for exchanging dry information but is not conducive to networking. Overall the presentation received positive feedback. There were 22 people participating in the call that watched the slide presentation online.

