

Sustainable Development  
Innovations Fund

Fonds des innovations  
de développement durable Manitoba

**Annual Report  
2012-2013**

**Rapport annuel  
2012-2013**







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**MINISTER OF  
CONSERVATION AND WATER STEWARDSHIP**

Legislative Building  
Winnipeg, Manitoba, CANADA  
R3C 0V8

The Honourable Philip S. Lee, C.M., O.M.  
Lieutenant Governor of Manitoba  
Government House  
Winnipeg MB R3C 1S4

Your Honour:

I am pleased to present you with the Annual Report for the Sustainable Development Innovations Fund for the period of April 1, 2012 to March 31, 2013.

Respectfully submitted,

*"Original signed by"*

Gord Mackintosh  
Minister of Conservation and Water Stewardship







**Conservation and Water Stewardship  
Deputy Minister**

Room 332 Legislative Building  
Winnipeg, Manitoba, Canada R3C 0V8

The Honourable Gord Mackintosh  
Minister of Conservation and Water Stewardship  
330 Legislative Building  
Winnipeg MB R3C 0V8

Dear Minister:

I am pleased to present the Annual Report of the Sustainable Development Innovations Fund (SDIF) for the 2012-2013 fiscal year.

Mandated under *The Sustainable Development Act*, the Fund's purpose is to contribute to Manitoba's environmental sustainability, while considering the economy, human health and social well-being. The Fund achieves its purpose through targeted funding initiatives and programs.

During 2012-2013, the SDIF provided grant funding for innovative projects and supported other significant initiatives that contributed to the province's environmental sustainability.

The Fund continues to support Manitoba communities, which benefit from research and studies, educational initiatives, technology development and application, environmental improvements, and resource conservation and protection.

Respectfully submitted,

*"Original Signed by"*

Fred Meier  
Deputy Minister





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# PREFACE

## Organization of Report

The format of the Sustainable Development Innovations Fund (SDIF) 2012/13 Annual Report is similar to previous Annual Reports in that funded projects are presented by category and program areas.

## Purpose

In 1989, the provincial government created the Environmental Innovations Fund under *The Environment Act*. The Environmental Innovations Fund was repealed from *The Environment Act* in 1992/1993 and the Sustainable Development Innovations Fund (SDIF) was established under Section 17(1) of *The Sustainable Development Act*, which came into force on July 1, 1998.

As stated in *The Sustainable Development Act*, the purpose of the Fund, is to “provide grants in support of innovative projects, activities, research and developments that further the sustainability of Manitoba’s economy, environment, human health and social well-being and support environmentally sustainable economic growth; and support any other sustainable development innovation purpose that the Lieutenant Governor in Council considers necessary or advisable”.

The goal of the SDIF is to contribute to Manitoba’s environmental sustainability. This approach indirectly takes into account the economy, human health and social well-being. The SDIF achieves its purpose through targeted funding initiatives and programs, implemented through an application or proposal process. These designated programs align with Manitoba Conservation and Water Stewardship priorities, as well as other government initiatives. The SDIF supports Manitoba based projects or projects that will be of benefit to Manitoba and contribute to meeting the objectives of the SDIF:

1. To support and promote innovation in the environmental and sustainable development industries.
2. To encourage environmentally sound decisions and actions.
3. To promote research and demonstration of new initiatives not addressed by existing programs.
4. To stimulate economic development and diversification that will improve the quality of life, and strengthen community identity, throughout Manitoba.
5. To demonstrate new approaches to prevent waste and pollution, and conserve resources.
6. To support activities that may benefit both the global and local environment.

The SDIF’s funding initiatives and departmental and government strategic priorities contribute towards the protection, enhancement, conservation, or rehabilitation of Manitoba’s environment. Funding support is provided for the development, implementation and promotion of innovative environmentally sustainable projects delivered by local government and provincial government departments, business and industry, community and youth groups, Aboriginal organizations, First Nation communities and educational institutions. Programs help address various environmental issues, including:

- youth participation;
- waste reduction and prevention;
- climate change;
- water quality and conservation, and
- natural resource conservation.

## Source of Revenue

The amount appropriated to the SDIF through the annual Estimates process is notionally linked to the anticipated revenues derived from Environmental Protection Taxes (EPT) on alcohol beverage containers and disposable diapers, and from the Provincial Sales Tax (PST) on the Environmental Handling Charges (EHC).



## **Communication**

The Fund is promoted through the following activities:

- Manitoba Conservation and Water Stewardship website;
- Community events, trade shows, exhibitions, and speaking engagements;
- News releases;
- Acknowledgement in publications, printed material, and signage of supported projects;
- Listings in various funding directories;
- Provincial government offices and staff;
- Word of mouth.

## **Process and Fund Management**

The Pollution Prevention Branch of Manitoba Conservation and Water Stewardship is designated as the administrating branch for the Fund under *The Sustainable Development Act* and provides overall administrative support to the Fund, including responding to inquiries and reporting.

The Branch manages various initiatives under the Fund, including the Waste Reduction and Pollution Prevention (WRAPP) Fund and Manitoba Climate Change and Action Fund (MCCAF). The Water Stewardship Fund (WSF), which includes the Aquatic Invasive Species Program, is managed by the Manitoba Water Stewardship Division of the Department.

The Waste Reduction and Pollution Prevention (WRAPP) Fund and Water Stewardship Fund use a similar application or proposal process. Applications or proposals submitted for funding consideration are evaluated by staff against the funding program's criteria. The evaluations are compiled and summarized and then submitted for review to an Advisory Committee, comprised of representatives from provincial government departments.

The Advisory Committee reviews the proposals and the evaluations and makes funding recommendations to the Minister of Conservation and Water Stewardship or delegated Minister. The Minister has delegated approval authority for projects receiving funding of \$25,000 or less. Projects to be awarded funding in excess of \$25,000 are subject to Treasury Board approval.

Projects requesting support are assessed against the following criteria:

- addresses one or more of the priority areas;
- demonstrates measurable progress towards achieving one or more of the Fund's objectives;
- promotes a sustainable approach, has clear environmental benefits, and takes into account benefits to the community and the economy;
- involves youth;
- has written support and has identified other financial or in-kind project support;
- has a realistic budget and uses appropriate resources to conduct the project;
- has a distinct start and finish, and will be implemented in a timely fashion;
- will be conducted in Manitoba or benefit Manitoba;
- has a clear, concrete plan for future use, sharing or replication.

Ineligible applications and funding requests include:

- projects that will result in proprietary knowledge which will be held exclusively by the grant recipient;
- applications for debt financing or cost recovery purposes;
- purchase of playground and recreational equipment;
- purchase of real property, including land, buildings or vehicles;

- ongoing administration and established operational budgets; and
- initiatives that must be undertaken as a result of a government order, such as removal of petroleum distribution systems, investigations and remediation.

Manitobans are major beneficiaries of the Fund with the intended direct impact of the funded projects being on the natural environment. By supporting environmentally sound and sustainable practices, the Fund assists with facilitating behavioral changes of individuals, households, businesses and institutions.

## **HIGHLIGHTS**

During 2012/13 the SDIF supported projects and programs under the following categories:

### **1. Targeted Funding Initiatives**

- Manitoba Climate Change Action Fund (MCCAF)
- Waste Reduction and Pollution Prevention (WRAPP) Fund
- Water Stewardship Fund (WSF)

### **2. Departmental and Government Strategic Priorities**

- Bear Smart Initiative
- Woodlot Program/Private Land Resource Planning Program
- Sustainability Initiatives
- Special Initiatives

In 2012/13, approximately \$3.06 million was expended under the SDIF. Under the Targeted Funding Initiatives, a total of 36 projects were awarded grant funding expending approximately \$0.9 million. Projects funded under this category included key initiatives that continue to deliver Beyond Kyoto action items through impacts and adaptation activities and climate change education programming, waste reduction and pollution prevention activities, and initiatives that help maintain or improve the stewardship of Manitoba's water.

A summary of expenditures under the Fund's Targeted Funding Initiatives and Departmental and Government Strategic Priorities is presented on the following pages.

# PRÉFACE

## Structure du rapport

La structure du rapport annuel 2012-2013 du Fonds des innovations de développement durable (FIDD) est semblable à celle des rapports précédents : les projets financés sont présentés par domaine de programmes et par catégorie d'attribution.

## Objectif

En 1989, le gouvernement provincial a créé le Fonds des innovations environnementales en vertu de la *Loi sur l'environnement*. Après la révocation des dispositions de la *Loi* s'y rapportant en 1992-1993, on a créé le nouveau Fonds des innovations de développement durable en vertu du paragraphe 17(1) de la *Loi sur le développement durable*, qui est entrée en vigueur le 1<sup>er</sup> juillet 1998.

Tel qu'énoncé dans la *Loi sur le développement durable*, le Fonds a pour objectif « de verser des subventions à l'appui de projets, d'activités, de programmes de recherche et de développement innovateurs qui améliorent le caractère durable de l'économie, de l'environnement, de la santé et du bien-être social au Manitoba et encouragent une croissance économique respectueuse de l'environnement; et de favoriser tout autre objectif en matière de développement durable innovateur que le lieutenant-gouverneur en conseil juge approprié ».

Le but du Fonds est de contribuer à la viabilité de l'environnement du Manitoba. Cette approche prend indirectement en compte l'économie, la santé et le mieux-être social. Le Fonds atteint son but au moyen d'initiatives et de programmes de financement ciblés, auxquels on peut accéder au moyen d'un processus de demande ou de proposition. Ces programmes désignés sont conformes aux priorités de Conservation et Gestion des ressources hydriques Manitoba, ainsi qu'à d'autres initiatives du gouvernement. Le Fonds soutient les projets mis en œuvre au Manitoba, et les projets qui sont à l'avantage de la province et contribuent à remplir les objectifs du Fonds suivants :

7. appuyer et promouvoir l'innovation dans les secteurs de l'environnement et du développement durable;
8. encourager des prises de décision et l'adoption de mesures respectueuses de l'environnement;
9. promouvoir la recherche et la mise à l'essai de nouvelles initiatives ne faisant pas partie des programmes existants;
10. favoriser le développement et la diversification de l'économie afin d'améliorer la qualité de vie et de renforcer notre identité collective partout au Manitoba;
11. adopter de nouveaux moyens d'éviter le gaspillage et la pollution et de conserver les ressources;
12. soutenir les activités pouvant être avantageuses pour l'environnement à l'échelle mondiale et locale.

Les initiatives de financement du Fonds et les priorités stratégiques du ministère et du gouvernement contribuent à la protection, à l'amélioration, à la conservation et à la remise en état de l'environnement au Manitoba. Un soutien financier est accordé pour l'élaboration, la mise en œuvre et la promotion de projets novateurs et écologiquement viables menés par les administrations municipales, les ministères du gouvernement provincial, les entreprises et l'industrie, les groupes communautaires et les groupes de jeunes, les organismes autochtones, les collectivités des Premières Nations et les établissements d'enseignement. Les programmes contribuent au règlement de diverses questions dans le domaine de l'environnement, y compris :

- la participation des jeunes;
- la réduction et la prévention des déchets;
- le changement climatique;
- la qualité et la conservation de l'eau;
- la conservation des ressources naturelles.

## Source de revenus

Le montant revenant au FIDD établi dans les prévisions budgétaires annuelles est lié en théorie aux recettes prévues tirées des taxes destinées à la protection de l'environnement imposées sur les contenants de boissons alcoolisées et les couches jetables, et de la taxe de vente provinciale sur les droits environnementaux de manutention.

## Communication

La promotion du Fonds est assurée par les activités suivantes :

- le site Web de Conservation et Gestion des ressources hydriques Manitoba;
- des activités communautaires, des foires commerciales, des expositions et des conférences;
- des communiqués de presse;
- des remerciements dans les publications, des documents imprimés, et des annonces des projets appuyés;
- des inscriptions dans divers répertoires de sources de financement;
- les bureaux et le personnel du gouvernement provincial;
- le bouche-à-oreille.

## Processus et gestion du Fonds

La Direction de la prévention de la pollution de Conservation et Gestion des ressources hydriques Manitoba gère le Fonds en vertu de la *Loi sur le développement durable* et lui fournit le soutien administratif général dont il a besoin. Cela consiste notamment à répondre aux demandes et à présenter des rapports.

La Direction assure la gestion de diverses initiatives de financement dans le cadre du Fonds, notamment le Fonds pour la réduction du volume de déchets et la prévention de la pollution et le Fonds d'action sur le changement climatique du Manitoba. Le Fonds de gérance des eaux, qui comprend le Programme de lutte contre les espèces aquatiques envahissantes, est géré par la Division de la gestion des ressources hydriques du ministère.

Le Fonds pour la réduction du volume et de la production des déchets et le Fonds de gérance des eaux emploient des processus semblables en ce qui a trait aux demandes et aux propositions. Le personnel du ministère évalue les propositions ou les demandes de financement de projets en fonction des critères du programme de financement. Les évaluations sont compilées et résumées avant d'être présentées pour examen au comité consultatif du Fonds, qui est composé de représentants des ministères provinciaux.

Ce comité examine les projets et les évaluations, puis formule des recommandations au ministre de la Conservation et de la Gestion des ressources hydriques en ce qui concerne le financement. Le ministre a reçu le pouvoir d'approuver les projets bénéficiant d'un financement maximal de 25 000 \$. Les projets devant recevoir plus de 25 000 \$ doivent être approuvés par le Conseil du Trésor.

Les projets faisant l'objet d'une demande de financement sont évalués en fonction des critères suivants :

- ils portent sur au moins un des domaines prioritaires;
- ils font état de progrès mesurables vers la réalisation d'un ou de plusieurs des objectifs du Fonds;
- ils préconisent une démarche viable, présentent des avantages manifestes pour l'environnement et tiennent compte des avantages pour la collectivité et pour l'économie;
- ils suscitent la participation des jeunes;
- ils ont obtenu des appuis écrits et ils ont trouvé d'autres sources de soutien financier et non financier;
- ils ont un budget réaliste et recourent à des ressources appropriées pour se concrétiser;
- les dates de début et de fin de chaque projet sont bien définies, et les projets seront mis en œuvre dans un délai raisonnable;
- ils seront menés au Manitoba ou profiteront à la province;
- ils s'assortissent d'un plan clair et concret quant à leur utilisation, à leur diffusion ou à leur répétition dans l'avenir.

Les demandes d'inscription et de financement non admissibles comprennent :

- les projets aboutissant à l'acquisition d'un savoir-faire privatif détenu exclusivement par le bénéficiaire de la subvention;
- les demandes formulées à des fins de remboursement d'emprunt ou de recouvrement de coûts;
- l'achat d'équipement récréatif ou destiné à des terrains de jeux;
- l'achat de biens immobiliers (terrains, bâtiments) ou de véhicules;
- les frais d'administration continue et les budgets d'exploitation établis;
- les initiatives qui doivent être entreprises par suite d'une ordonnance du gouvernement (p. ex. : élimination de réseaux de distribution de pétrole, études et assainissement).

Les Manitobains sont les principaux bénéficiaires du Fonds, qui veille à ce que les projets financés aient un impact direct sur le milieu naturel. En appuyant des pratiques respectueuses de l'environnement ayant un effet durable, le Fonds aide à promouvoir des changements de comportement, aussi bien au niveau des personnes que des ménages, des entreprises et des établissements.

## **FAITS SAILLANTS**

Au cours de l'exercice 2012-2013, le Fonds des innovations de développement durable a appuyé des projets et des programmes faisant partie des catégories suivantes :

### **1. Initiatives de financement ciblées**

- Fonds d'action sur le changement climatique du Manitoba
- Fonds pour la réduction du volume et de la production des déchets
- Fonds de gérance des eaux

### **2. Priorités stratégiques du ministère et du gouvernement**

- Initiative Gare aux ours
- Programme des boisés du Manitoba ou Programme de planification des ressources des terrains privés
- Initiatives de développement durable
- Initiatives spéciales

Pendant l'exercice 2012-2013, environ 3,06 millions de dollars ont été dépensés au titre du Fonds des innovations de développement durable. Dans le cadre des initiatives de financement ciblées, des subventions totalisant quelque 0,9 million de dollars ont été attribuées à 36 projets parmi lesquels : des initiatives clés qui assurent le suivi du plan d'action « Au-delà de Kyoto » par le truchement d'activités sur les répercussions et sur l'adaptation, et de programmes d'éducation sur le changement climatique; des initiatives de réduction du volume des déchets et de prévention de la pollution; et des initiatives qui aident à maintenir ou à améliorer la gestion des ressources hydriques du Manitoba.

Les pages suivantes présentent un résumé des dépenses dans le cadre des initiatives de financement ciblées du Fonds et des priorités stratégiques du ministère et du gouvernement.

## TARGETED FUNDING INITIATIVES

### **Manitoba Climate Change Action Fund:**

A total of \$200,000.00 was expended during the 2012/13 fiscal year for two key initiatives funded under the Manitoba Climate Change Action Fund (MCCAF). MCCAF priority areas include education and outreach, impacts and adaptation, and sustainable transportation.

### **Waste Reduction and Pollution Prevention Fund:**

A total of \$459,496.53 was expended during the 2012/13 fiscal year for 25 projects funded through the Waste Reduction and Pollution Prevention (WRAPP) Fund, including WRAPP program development. WRAPP Fund priority areas include organic waste management and composting; construction and demolition (C&D) waste management; education and information; model integrated waste management system development and planning; regional recycling and waste reduction; and pollution prevention.

### **Water Stewardship Fund:**

A total of \$217,441.48 was expended during the 2012/13 for 9 projects under the Water Stewardship Fund (WSF), including the Aquatic Invasive Species (AIS) Program. WSF priority areas include watershed management planning and implementation; water-related scientific research; education and capacity building; water conservation; and water quality and economic development.

## DEPARTMENTAL AND GOVERNMENT STRATEGIC PRIORITIES

### **Bear Smart Initiative:**

A total of \$32,699.51 was expended during the 2012/13 fiscal year to support the Bear Smart Initiative in Manitoba, which will assist in preventing human-bear conflicts.

### **Woodlot Program/Private Land Resource Planning Program:**

A total of \$170,000.00 was expended during the 2012/13 fiscal year to support the Manitoba Forestry Association Woodlot Program which initiated a transition to the Private Land Resource Planning Program. The program continued to encourage private landowners in Manitoba to use Agro-forestry and woodlot management practices to diversify farm income and maintain wildlife habitat, in addition to undertaking improvements that would assist in program management, address woodlot owner concerns, and consider new and emerging program areas.

### **Sustainability Initiatives:**

A total of \$1,585,000.00 was expended and recovered by Manitoba Conservation and Water Stewardship during the 2012/13 fiscal year to support commitments to the International Institute for Sustainable Development, to continue the promotion and integration of the principles and practices of sustainable development within and between the public, private, and voluntary sectors on a national and international basis; to Manitoba Habitat Heritage Corporation, to provide operating funds for the delivery of the North American Waterfowl Management Plan in Manitoba; and for water related research and consulting initiatives.

### **Special Initiatives:**

A total of \$393,017.07 was expended during the 2012/13 fiscal year for the Newspaper Recycling Agreement which supports the newspaper industry stewardship obligations to Multi-Material Stewardship Manitoba (MMSM) for packaging and printed paper, in line with a 1993 government commitment; and for environmental sustainability and conservation initiatives which included the collection and information sharing of data on species at risk, support of healthy food initiatives in northern and remote Manitoba communities, and conferences on wildlife management and environmental philanthropy.

**Table 1: Summary of SDIF Supported Projects and Programs**

<b>Project Categories</b>	<b>Number of Projects Allocated Funding in 2012/13</b>	<b>Amount Expended</b>
<b>1. Targeted Funding Initiatives</b>		
Manitoba Climate Change Action Fund (MCCAF)	2	\$200,000.00
Waste Reduction and Pollution Prevention (WRAPP) Fund	25	\$459,496.53
Water Stewardship Fund (WSF)	9	\$217,441.48
<b>Total</b>	<b>36</b>	<b>\$876,938.01</b>
<b>2. Departmental and Government Strategic Priorities</b>		
Bear Smart Initiative		\$32,699.51
Woodlot Program		\$170,000.00
Sustainability Initiatives		\$1,585,000.00
Special Initiatives: • Newspaper Recycling Agreement • Environmental Sustainability and Conservation Initiatives		\$313,017.07 \$80,000.00
<b>Total</b>		<b>\$2,180,716.58</b>
<b>Grand Total for SDIF</b>		<b>\$3,057,654.59</b>

**TARGETED FUNDING INITIATIVES**

**DETAILED LISTING OF PROJECTS ALLOCATED**

**FUNDING DURING THE 2012/13 FISCAL YEAR**



# MANITOBA CLIMATE CHANGE ACTION FUND

**Administering Department:** Manitoba Conservation and Water Stewardship  
**Date Approved:** 2012/13 Estimates  
**Total Amount Expended:** \$200,000.00

The Manitoba Climate Change Action Fund (MCCAF) continued to support initiatives to reduce greenhouse gas (GHG) emissions in targeted sectors consistent with the goals outlined in *Tomorrow Now*, Manitoba's Green Plan for protecting the environment while ensuring a prosperous and environmentally conscious economy. Annual funding support was provided to two key initiatives under priority areas of education and outreach and impacts and adaptation.

Brief descriptions of the initiatives supported under the MCCAF are as follows:

## CLIMATE CHANGE CONNECTION

**Proponent:** Manitoba Eco-Network Inc.  
**Priority Area:** Education and Outreach  
**Total Amount Approved:** \$100,000.00  
**Total Amount Expended:** \$100,000.00

An annual grant of \$100,000.00 was approved to continue with Manitoba's climate change public education and outreach hub, the Climate Change Connection. The vision is to ensure Manitobans are aware of climate change facts related to Manitoba and to reduce greenhouse (GHG) emissions, both individually and as a community. Climate Change Connection acts as a clearinghouse of information, coordinates outreach, builds awareness and promotes individual and community actions to reduce greenhouse gas (GHG) emissions and promotes changes necessary to live more sustainable and climate-friendly lifestyles. Areas most likely to be impacted by climate change and sectors with significant contributions to GHG emissions in Manitoba will continue to be targeted.

Climate Change Connection will continue to build a partner network and public awareness through the collection and dissemination of information on causes and effects of climate change, GHG sources. Host workshops and participate in speaking engagements; and encourage active involvement through the creation or support of organized activities that get Manitobans working together to reduce GHG emissions. The Climate Change Connection was established as part of a national network of hubs responsible for climate change education and outreach coordination.

## GHG REDUCTIONS THROUGH SUSTAINABLE TRANSPORTATION INITIATIVES

**Proponent:** Green Action Centre  
**Priority Area:** Impacts and Adaptation  
**Total Amount Approved:** \$100,000.00  
**Total Amount Expended:** \$100,000.00

An annual grant of \$100,000.00 was approved for the coordination and delivery of climate friendly active transportation initiatives related to active transportation and green driving public education and outreach. In light of the critical importance of the transportation sector as a source of greenhouse gas (GHG) emissions in Manitoba, the Green Action Centre will continue to undertake and implement strategic GHG reduction initiatives, including: **Year-Round Commuter Challenge Campaigns** – To help maintain a public profile for sustainable transportation year-round. This series of events and seasonal campaigns include participant registrations and trip tracking to document impact and measure results. **Workplace Commuter Challenge** – To increase transportation efficiencies and reduce GHG emissions by encouraging alternatives to the use of single-occupant vehicles for commuting to and from work. **Active and Safe Routes to School (ASRTS)** – To implement key strategies that will provide a safe alternative for children walking to and from school, reducing GHG emissions associated with motor vehicle use by promoting safe, supervised and non-motorized travel for children.

## WASTE REDUCTION AND POLLUTION PREVENTION (WRAPP) FUND

**Administering Department:** Manitoba Conservation and Water Stewardship  
**Date Approved:** 2012/13 Estimates  
**Total Amount Expended:** \$459,496.53

The WRAPP Fund continued to be an integral program for supporting waste reduction and pollution prevention activities in Manitoba, as municipalities, businesses, communities and other organizations continued to seek alternative ways to manage waste materials and protect the environment.

The WRAPP Fund supported projects in the following areas: construction and demolition waste management; education and information; waste reduction services, model integrated waste management system development and planning; organic waste management and composting; and regional recycling; and waste reduction and pollution prevention.

An annual budget within the WRAPP Fund allocation supports administration costs, as well as activities related to the development and implementation of the branch's priority areas.

<b>Total Allocation for 2012/13</b>	
Applications Processed	34
Applications Approved	25
Total Amount for Grants Expended	\$417,825.00
Program Development	\$41,671.53
<b>Total Expended</b>	<b>\$459,496.53</b>

Brief descriptions of the 25 projects supported under the WRAPP Fund are as follows:

### CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT

#### APPLICATION OF ECO-FRIENDLY SOIL STABILIZER FOR CLAY SUBGRADE

**Proponent:** Antex Western Ltd.  
**Date Approved:** January 7, 2013  
**Total Amount Approved:** \$17,500.00  
**Total Amount Expended:** \$17,500.00

A grant of \$17,500.00 was approved to demonstrate the potential of combining post-consumer and post-commercial waste materials such as crushed glass, carpet fiber, and other waste and agricultural by-products to create a soil stabilizer and pilot its use in constructing a pathway. The soil stabilizer will be mixed with existing sub-grade soil, and tested in a section of a multi-use trail along Bishop Grandin Boulevard from Shorehill Drive to Beaverhill Boulevard, Winnipeg. Antex Western Ltd., in partnership with the University of Manitoba, will conduct tests to evaluate the viability of the soil stabilizer once the pathway is complete. The project intends to demonstrate the potential and innovative use of diverting construction materials and construction waste materials from landfill in addressing long-standing problems, such as road and pathway maintenance (heaving and cracking) concerns.

## EDUCATION AND INFORMATION

### GREENING TRIATHLON IN MANITOBA – TRIGREEN: A RACE DIRECTORS' HANDBOOK FOR SUSTAINABILITY

<b>Proponent:</b>	Tribalistic Triathlon Team
<b>Date Approved:</b>	July 25, 2012
<b>Total Amount Approved:</b>	\$3,500.00
<b>Total Amount Expended:</b>	\$3,500.00

A grant of \$3,500.00 was approved to produce a standards-based sustainability handbook for use at triathlon events. Large scale triathlon events can have an impact on the environment in terms of waste accumulation and water consumption. The handbook will identify ways to minimize waste and create a more sustainable sporting event. The handbook will focus on six themes: (1) waste management and minimization; (2) impacts on the atmosphere; (3) materials and equipment; (4) community focus and outreach; (5) health, fitness and well-being; and (6) innovative practices in sustainability measures. In addition, criteria for achieving different levels of sustainability in triathlon events will be developed. Events will be ranked through an on-line certification process to achieve platinum, gold, silver and certified status levels. The handbook will be promoted through workshops and presentations to encourage its use across Manitoba.

## WASTE REDUCTION SERVICES

<b>Proponent:</b>	Green Action Centre
<b>Date Approved:</b>	May 26, 2009
<b>Total Amount Approved:</b>	\$300,000.00
<b>Total Amount Expended:</b>	\$100,000.00

A grant of \$100,000.00 was approved annually over three fiscal years to support Waste Reduction Services, including Environmental Information Services (EIS), the Compost Action Project, Environmental Speakers Bureau (ESB), and the coordination and promotion of Waste Reduction Week (WRW). Support to the Green Action Centre assists in the maintenance of core services, such as research, resource material development, and volunteer coordination for various projects and services. The Compost Action Project focuses on education, consultation, referral, training and the provision of resources that target residential, as well as institutional and commercial organic wastes, and those who either produce or manage these streams of organics. The ESB provides environmental education support for schools on sustainability issues which include educational materials and classroom presentations on waste minimization and pollution prevention, water conservation, climate change, energy, and other related topics. WRW promotes waste reduction activities throughout Manitoban communities, businesses and schools. As the organizing agency in Manitoba, the Green Action Centre coordinates the flow of information and materials between the national Waste Reduction program and Manitoba participants, and distributes waste reduction information to schools, municipalities, and businesses in Manitoba.

# MODEL INTEGRATED WASTE MANAGEMENT SYSTEM DEVELOPMENT AND PLANNING

## THE PAS AREA REGIONAL SOLID WASTE AND RECYCLING FACILITY FEASIBILITY STUDY

<b>Proponent:</b>	The Regional Solid Waste and Recycling Facility Committee c/o Town of The Pas
<b>Date Approved:</b>	March 27, 2013
<b>Total Amount Approved:</b>	\$25,000.00
<b>Total Amount Expended:</b>	\$25,000.00

A grant of \$25,000.00 was approved to conduct a feasibility study to determine the effectiveness and viability of establishing a regional solid waste and recycling facility to service The Pas and surrounding communities. Committee participants include The Town of the Pas; Rural Municipality of Kelsey (Cranberry Portage, Wanless); Opaskwayak, Mosakihiken, Chemawawin, and Sapotaweyak Cree Nations; Communities of Moose Lake, Cormorant, Pelican Rapids, Dawson Bay and Easterville; Community of Barrows (representing one waste disposal ground for Barrows, Baden, Powell, Red Deer, and National Mills), and Manitoba Conservation and Water Stewardship (representing Clearwater Lake Park and Rocky Lake East Shore Cottage Association). These communities either own or use waste disposal grounds that are not in compliance, are at capacity or nearing capacity and require expansion, replacement, or closure. As a result, the Regional Solid Waste and Recycling Facility (RSWARF) Committee was formed to develop a regional solid waste and recycling facility to be centrally located at The Pas and be capable of receiving waste from transfer stations from participating outlying communities. The services of a consulting firm will be utilized to undertake a review of all potential sites, and provide data and recommendations so that a well-informed decision on the viability of a regional facility may be made.

## RURAL MUNICIPALITY OF OAKLAND TRANSFER STATION

<b>Proponent:</b>	Rural Municipality of Oakland
<b>Date Approved:</b>	January 7, 2013
<b>Total Amount Approved:</b>	\$25,000.00
<b>Total Amount Expended:</b>	\$25,000.00

A grant of \$25,000.00 was approved to establish a waste transfer station intended to provide a more efficient and environmentally sound method of managing waste. An elevated access ramp and bin-wall system will be constructed to allow for a convenient and accessible drop-off location for recyclables, E-waste and household hazardous waste, and other non-recyclable waste materials to be deposited and then transported out to regional waste and recycling processing facilities. The initiative is intended to increase collection and enhance the management of recyclable materials and other waste materials, and streamline the waste transfer operations.

# ORGANIC WASTE MANAGEMENT AND COMPOSTING

## 50% CHALLENGE

**Proponent:** Hanover School Division  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$15,000.00  
**Total Amount Expended:** \$15,000.00

A grant of \$15,000.00 was approved to conduct a division wide initiative to collect organic waste for composting to reduce landfill-directed waste by 50%. Compostable material will be collected and transported to the City of Steinbach's composting facility. Schools that are developing greenhouses and community gardens will have access to the finished compost along with the general public, free of charge. In addition, some schools may further develop their own on-site composting activities (vermicomposting or backyard bin composters) for use as educational tools and as an on-site source of compost for small projects. A greening guidebook will be developed to assist local governments and other school divisions to adopt systems and plans for waste reduction.

## COMPOSTING AND EDUCATING AT ALEXANDER RIDGE PARK

**Proponent:** Pembina Valley Conservation District  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$15,000.00  
**Total Amount Expended:** \$15,000.00

A grant of \$15,000.00 was approved to undertake a waste reduction demonstration project of a composting system in a wayside park. A compost restroom will be constructed that will showcase the elimination of polluting sewage, water conservation, and minimal land requirement needed for efficient operation, as compared to a conventional septic tank system. The compost restroom will be designed to handle both intermittent use and high volume of peak periods. The neighboring Miami Golf & Country Club will utilize the compost liquids as organic fertilizer, while solids will be utilized for soil compost at the park. Interpretive signage will be posted identifying how the composting system works and on the water conservation aspects of the project.

## DEVELOPING CAPACITY FOR ENVIRONMENTAL SUSTAINABILITY IN NORTHERN MANITOBA

**Proponent:** Food Matters Manitoba  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$20,000.00  
**Total Amount Expended:** \$20,000.00

A grant of \$20,000.00 was approved to conduct a compost pilot project in two northern communities – Cross Lake and York Landing. Backyard compost bins will be distributed to local gardeners and to community institutions (schools, band office, and nursing station) to reduce waste and improve garden sustainability, Food Matters Manitoba will work with existing local partners to help develop the infrastructure and skills necessary to implement a sustainable composting program, which in turn will create a valuable local resource to support gardening initiatives. Composting training will be provided to community members, and a "how-to" manual on backyard composting for northern and remote communities will be developed.

## RETURN IT TO THE EARTH

**Proponent:** Town of Stonewall  
**Date Approved:** March 27, 2013  
**Total Amount Approved:** \$8,000.00  
**Total Amount Expended:** \$8,000.00

A grant of \$8,000.00 was approved to conduct an educational awareness campaign to increase the diversion of organic waste from landfill. In partnership with the East Interlake Conservation District, a one day backyard compost bin sale will be held, where up to 500 residents will have the opportunity to purchase an earth machine composter at a discounted rate. Flyers will be distributed together with the composters to help educate residents on the benefits of, and proper way to, compost. Together with the Rockwood Environmental Action Community Taskforce (REACT), the Town will start a compost ad campaign prior to and after the distribution of the composters. By providing homeowners with a backyard composter, the Town anticipates the community will show a greater desire to increase the amount of organic waste being diverted.

## RIVERTON'S CAPTAIN COMPOST

**Proponent:** ErosionControlBlanket.com Inc.  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant of \$25,000.00 was approved to demonstrate a waste reduction project to divert 60,000 kg of fish offal from the Fresh Water Marketing station in Riverton, Manitoba by producing high quality compost or liquid fish fertilizer. An optimal recipe will be created and field and laboratory testing will be conducted on the finished product. It is proposed that the final product will be marketed and sold, with a portion of the sales being donated to the Lake Winnipeg Foundation. A Lake Friendly designation will be sought for the finished product.

## ST. PIERRE JOLYS AND DE SALABERRY MUNICIPAL ORGANIC WASTE MANAGEMENT PLAN

**Proponent:** Conseil de Développement Économique des Municipalités  
Bilingues du Manitoba (CDEM)  
**Date Approved:** January 7, 2013  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant of \$25,000.00 was approved to implement composting activities for rural Francophone communities to divert municipal organic waste from landfill. In addition to promoting backyard composting to its residents with compost bin sales, the Town of St. Pierre Jolys will provide a rural, low density comprehensive composting pick-up program for its residents. The Rural Municipality of de Salaberry will enhance its composting processing site and provide residential organic waste collection services for its neighbouring communities, including St. Pierre-Jolys, Otterburne, and St. Malo.

## **THE FORKS COMPOSTING PROGRAM**

**Proponent:** Forks Renewal Corporation  
**Date Approved:** January 7, 2013  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant of \$25,000.00 was approved to demonstrate the viability and sustainability of diverting organic waste and creating high quality compost at a highly-visible public space with the use of in-vessel composting technology. The Forks' organic waste composting operation will be enhanced with the addition of equipment, including feedstock mixer, compost screener, spreader, blankets, chipper/grinder, etc. Currently, organic waste is collected from the Forks Market tenants and businesses, and other neighbouring institutions, and is composted using an industrial in-vessel composter known as the Biovator. As the composting system is fairly new, additional resources are needed to ensure that the operation is able to process the high volume of organic waste being generated in an effective and sustainable manner.

## **WOLVERINE COMMUNITY GARDEN COMPOSTING PILOT**

**Proponent:** Nelson McIntyre Collegiate  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$525.00  
**Total Amount Expended:** \$525.00

A grant of \$525.00 was approved to implement a community garden composting project in partnership with Norwood Community Centre, neighbouring Church of Christ, and area residents. A triple bin pallet composting station, constructed from repurposed materials, will be installed in close proximity to the newly established Wolverine Community Garden. The compost bins will be easily accessible to allow the school and area residents to drop off garden and yard waste for composting. The Geography Department will maintain the composter as part of the students' curricular objectives; and school and community volunteers will maintain the composter periodically during the summer when school is out. Mature compost will be used at the community garden, and will be made available to the community at no charge.

## **REGIONAL RECYCLING**

### **CONVEYOR AND CONVERTER PROJECT**

**Proponent:** The Pas & Area Recycling Centre  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$10,000.00  
**Total Amount Expended:** \$10,000.00

A grant of \$10,000.00 was approved to increase recycling efficiencies in the northern recycling processing facility with a new conveyor and convertor, which will allow for a greater volume of recyclable materials to be accepted and processed. This will assist in streamlining operational efficiencies with material handling capabilities and compacting processes, enabling operations to expand and accept recyclable materials from additional northern communities.

## **E-WASTE CONTAINER PROJECT**

**Proponent:** Rural Municipality of Shoal Lake  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$3,300.00  
**Total Amount Expended:** \$3,300.00

A grant of \$3,300.00 was approved to assist the municipality with its E-waste recycling with the installation of a covered container for the proper storage and protection of materials collected from outdoor elements and to allow for easy access of loading and unloading of E-Waste materials to be diverted from landfill. The recycling depot serves 1,500 citizens, businesses, and farm operations.

## **SHERRIDON RECYCLING STRATEGY**

**Proponent:** Sherridon Community Council  
**Date Approved:** January 7, 2013  
**Total Amount Approved:** \$10,000.00  
**Total Amount Expended:** \$10,000.00

A grant of \$20,000.00 was approved to support the community's recycling program through the purchase of two mobile recycling trailers with recycling bins. The trailers will be located at Sherridon and at Cold Lake, which comprises the two sides of the community. The trailers will be used to collect and transport recyclable materials to the nearest recycling depot in The Pas. With the waste disposal site nearing capacity, it is expected that the trailers will assist in maximizing the amount of recyclable materials the community can divert from landfill.

## **SINGLE STREAM RECYCLING PROCESSING FACILITY FOR RURAL MANITOBA RECYCLING COLLECTION**

**Proponent:** Portage and District Recycling Inc.  
**Date Approved:** January 7, 2013  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant of \$25,000.00 was approved to install a complete sorting line with several conveyors, and help improve sorting operations in the northern recycling processing facility. The equipment is aimed at reducing the manual aspect of sorting, and to accommodate increases in the facility's capacity to collect and process recyclable materials, as well as enable the receiving and handling of co-mingled recycling materials. With the increase in the volume of recyclable materials being collected, existing equipment and procedures have become inadequate, creating a lack of efficiency and productivity, and safety concerns in the facility.

## **WABOWDEN COMMUNITY COUNCIL RECYCLING PROGRAM**

**Proponent:** Wabowden Community Council  
**Date Approved:** January 7, 2013  
**Total Amount Approved:** \$5,000.00  
**Total Amount Expended:** \$5,000.00

A grant of \$5,000.00 was approved to expand and enhance the community's recycling program by establishing a mobile recycling trailer in the residential part of the community, which will complement an existing trailer located in the commercial area. The trailers will be used to collect and transport recyclable materials to the nearest recycling depot in Thompson. The second trailer is intended to enhance residents' participation in the community's recycling program, and maximize the amount of recyclable materials that the community can divert from landfill.



## **VALLEY LIONS RECYCLING INC. INTEGRATED RECYCLING DEPOT**

**Proponent:** Valley Lions Recycling Inc.  
**Date Approved:** March 27, 2013  
**Total Amount Approved:** \$22,000.00  
**Total Amount Expended:** \$22,000.00

A grant of \$22,000.00 was approved to enhance and expand the facility's recycling operations and regional recycling services. A medium duty forklift, to increase recycling operating capacities; and an industrial paper shredder, to recycle large amounts of paper currently being destroyed by burning will be procured. It is expected that the move to a new facility will see recyclable volumes increase, as there has been a significant decrease in recycling activity since the destruction of the previous facility, and that regional recycling services will be continued with several communities in the area.

## **GRUNTHAL COMMUNITY RECYCLING PROGRAM**

**Proponent:** Rural Municipality of Hanover  
**Date Approved:** March 27, 2013  
**Total Amount Approved:** \$3,000.00  
**Total Amount Expended:** \$3,000.00

A grant of \$3,000.00 was approved to enhance recycling services with a new community recycling bin. The bin will be placed near the Grunthal Fire Hall, and arrangements will be made with the Grunthal public work employees for the regular maintenance and clean-up of the bin. The new bin is intended to increase the residential recycling and waste diversion efforts of the Municipality.

## **NEW BOTHWELL COMMUNITY RECYCLING PROGRAM**

**Proponent:** Rural Municipality of Hanover  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$3,000.00  
**Total Amount Expended:** \$3,000.00

A grant of \$3,000.00 was approved to enhance recycling services with a new community recycling bin. To increase recycling and waste diversion efforts, the bin will be placed at the New Bothwell Fire Hall in the middle of town. This is an easily accessible location for area residents. Arrangements have been made with the Fire Department to provide regular maintenance and clean-up around the bin when necessary. The new bin is intended to increase the residential recycling and waste diversion efforts of the Municipality.

# WASTE REDUCTION AND POLLUTION PREVENTION

## BUSINESS OUTREACH PROGRAM AND VOLUNTEER COORDINATOR

**Proponent:** ArtsJunktion mb Inc.  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$7,000.00  
**Total Amount Expended:** \$7,000.00

A grant of \$7,000.00 was approved to develop a business outreach program to educate manufacturers and other industry on alternative waste management options of their excess reusable waste materials. A broad base of reusable materials will be collected or dropped off from businesses and made available to the community free of charge through the ArtsJunktion depot. Diversion of materials from landfill will have a positive environmental impact as these materials can be recycled or up-cycled by local artists, educators and community organizations. Information on waste management costs and potential savings to businesses will be compiled, along with a list of potential businesses that could become waste material donors. Processes and protocols to facilitate waste material donations from businesses to ArtsJunktion will also be developed.

## WATER-BASED WOOD FINISHING SYSTEM

**Proponent:** Altima Cabinet Works Ltd.  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$15,000.00  
**Total Amount Expended:** \$15,000.00

A grant of \$15,000.00 was approved to improve operational efficiencies by demonstrating pollution prevention practices in its paint finishing process. New equipment will be installed showcasing environmentally-friendly technologies that will eliminate volatile organic compound (VOC) emissions and help reduce energy consumption in the cabinet manufacturing industry. Current spray booth application practices vent air directly to the outside atmosphere; the new technologically advanced equipment will filter exhausted air and then re-circulate the air in the paint application process resulting in significant energy savings. As well, solvent based stains, lacquers and paints high in VOCs will be switched out to water-based products, thus eliminating emissions.

## WOOD SHREDDING EQUIPMENT

**Proponent:** Altima Cabinet Works Ltd.  
**Date Approved:** July 25, 2012  
**Total Amount Approved:** \$10,000.00  
**Total Amount Expended:** \$10,000.00

A grant of \$10,000.00 was approved to demonstrate that up to 95% of the company's waste, consisting primarily of wood scrap, can be diverted from the waste stream and recycled into particle board for reuse in the cabinet manufacturing process. Scrap wood waste will be collected and shredded into sawdust. The sawdust will be delivered to and recycled by Palliser Furniture to produce particle board. It is estimated that over 1,000 cubic yards of wood waste will be diverted from landfill annually.

## PROGRAM DEVELOPMENT

In 2012/13, the WRAPP Fund expended \$41,671.53 towards supporting the following activities:

- Product Stewardship Program and Regulation Development
- Fund administration
- Professional development and training
- Membership and conferences
- Research, consulting services, event and workshop sponsorship

## WATER STEWARDSHIP FUND (WSF)

**Administering Department:** Manitoba Conservation and Water Stewardship  
**Date Approved:** 2012/13 Estimates  
**Total Amount Expended:** \$217,441.48

The Water Stewardship Fund (WSF) continued to be an integral program for supporting initiatives that maintain or improve the stewardship of Manitoba's water. The WSF supports research, projects and activities that further the goals of *The Water Protection Act*, and encourages the development and implementation of watershed management plans, water conservation programs and water quality initiatives to stimulate economic development and diversification that will improve the quality of life and the environment in Manitoba. Water plays a critical role in Manitoba as it supports a healthy environment and affects the economic and social well-being of all Manitobans. Manitoba is committed to preserving Manitoba's rivers, lakes and wetlands and works to promote the importance of having quality water for people, the environment and the economy.

The WSF supports projects that contribute to maintaining the quality and quantity of water, wetlands, riparian areas and aquatic habitats in Manitoba. These projects address the following priority program areas: watershed management planning and implementation, water-related scientific research, education and capacity building, water conservation, water quality, and economic development. In addition, the WSF continued to support a sub-allocation for the Aquatic Invasive Species (AIS) Program, as Manitoba remains vulnerable to invasion by zebra mussels and other aquatic invasive species.

<b>Total Allocation for 2012/13</b>	
Applications Processed	26
Applications Approved	9
Total Amount for Grants Expended	\$175,000.00
Aquatic Invasive Species Program	\$42,441.48
<b>Total Expended</b>	<b>\$217,441.48</b>

Brief descriptions of the 9 projects supported under the WSF are as follows:

### WATERSHED MANAGEMENT PLANNING AND IMPLEMENTATION

#### EVALUATING NORDEVCO BACTIDOMUS TECHNOLOGY TO REDUCE THE IMPACT OF ORGANIC SEDIMENTS IN TWO SOUTH WEST MANTIOBA DRINKING WATER RESERVOIRS

**Proponent:** Pembina River Integrated Watershed Management Plan  
Implementation Team  
**Date Approved:** November 2, 2012  
**Total Amount Approved:** \$8,000.00  
**Total Amount Expended:** \$8,000.00

A grant for \$8,000.00 was approved to test the BactiDomus product on sediments from the Goudney Reservoir and Killarney Lake to determine its efficacy in reducing nutrient laden organic sediments and determine if there is an impact on the water column above the sediments.

## **MODEL SCENARIOS TO ESTIMATE THE POTENTIAL IMPACT OF HYDROLOGICAL STANDARDS ON NUTRIENT RETENTION IN THE TOBACCO CREEK WATERSHED**

**Proponent:** University of Saskatchewan School of Environment and Sustainability and Global Institute for Water Security  
**Date Approved:** February 20, 2013  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant for \$25,000 was approved to investigate the impact of drain size and hydrological design standards on nutrient retention in agricultural land drainage networks in the Tobacco Creek Watershed using computer modelling techniques. Research results will assist in the development of drainage design guidelines.

## **WATER-RELATED SCIENTIFIC RESEARCH**

### **TIMING AND MAGNITUDE OF PHOSPHORUS RELEASE FROM MANITOBA SOILS UNDER FLOODED CONDITIONS IN RELATION TO SOIL PROPERTIES**

**Proponent:** University of Winnipeg Environmental Studies Program; University of Manitoba Department of Soil Science  
**Date Approved:** November 2, 2012  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant for \$25,000.00 was approved for a research project to quantify the magnitude of phosphorus released from 12 different soil types found in Manitoba under waterlogged, anoxic conditions.

### **DO ALGAL TOXINS IN THE WATER AND FISH OF LAKE WINNIPEG POSE A HUMAN AND ECOLOGICAL HEALTH THREAT**

**Proponent:** University of Winnipeg and University of Manitoba  
**Date Approved:** April 26, 2012  
**Total Amount Approved:** \$10,000.00  
**Total Amount Expended:** \$10,000.00

A grant for \$10,000.00 was approved to study algal toxins in water and fish tissue from selected locations over several years in Lake Winnipeg.

## **EDUCATION AND CAPACITY BUILDING**

### **STEWARDS OF HOPE: THE LAKE MINNEWASTA BANK STABILIZATION PROJECT**

**Proponent:** A Rocha Canada, Prairie Operations  
**Date Approved:** April 26, 2012  
**Total Amount Approved:** \$20,000.00  
**Total Amount Expended:** \$20,000.00

A grant for \$20,000.00 was approved to engage the community in protecting and improving Lake Minnewasta, which is the drinking water source for the Town of Morden and the Rural Municipality of Stanley.

## **WATER CONSERVATION**

### **CRITICAL ASSESSMENT CRITERIA TO IDENTIFY PRIORITY AREAS FOR WETLAND CONSERVATION AND RESTORATION**

**Proponent:** University of Manitoba Watershed Systems Research Program  
**Date Approved:** April 26, 2012  
**Total Amount Approved:** \$24,000.00  
**Total Amount Expended:** \$24,000.00

A grant for \$24,000.00 was approved to determine priority areas for wetland conservation and restoration, based on their topographic, hydrological and biogeographical characteristics.

### **ASSINIBOINE PARK CONSERVANCY – WATER CONSERVATION PROJECT**

**Proponent:** Assiniboine Park Conservancy  
**Date Approved:** February 20, 2013  
**Total Amount Approved:** \$14,000.00  
**Total Amount Expended:** \$14,000.00

A grant for \$14,000 was approved for a rainwater harvesting initiative at Assiniboine Park. Rain barrels to harvest water will be installed at key buildings and rain water will be used to irrigate gardens and new tree plantings. The project will be a model of water conservation and results will be shared through school workshops, educational tours, and programming and information pamphlets for the public will be developed.

## **WATER STEWARDSHIP**

### **THE NIVERVILLE LAGOON SYSTEM: THE INVESTIGATION OF ALTERNATIVE APPROACHES FOR REMEDIATION**

**Proponent:** Town of Niverville  
**Date Approved:** November 2, 2012  
**Total Amount Approved:** \$25,000.00  
**Total Amount Expended:** \$25,000.00

A grant for \$25,000.00 was approved to assess the feasibility of mitigating biosolids (sludge) in decommissioned wastewater lagoons through in situ treatment using phyto- and bio-remediation methods. The project will determine actual costs of in situ remediation and develop a blueprint for designing wastewater lagoons so that they can be remediated in situ.

### **ASSINIBOINE PARK RIPARIAN FOREST RESTORATION AND PATHWAY**

**Proponent:** Assiniboine Park Conservancy  
**Date Approved:** February 20, 2013  
**Total Amount Approved:** \$24,000.00  
**Total Amount Expended:** \$24,000.00

A grant for \$24,000.00 was approved to assist with a riparian re-forestation and foot bridge stabilization project at Assiniboine Park. The riparian forest and footbridge crossing the Assiniboine River was damaged during the flood of 2011. The project will ensure continued public access to both the footbridge and the riparian forest.

# Aquatic Invasive Species Program

**Administering Department:** Manitoba Conservation and Water Stewardship, Fisheries Branch  
**Date Approved:** 2012/13 Estimates  
**Total Amount Expended:** \$42,441.48

Aquatic invasive species (AIS) can severely impact aquatic resources and can have significant economic costs to Manitoba. They can aggressively invade, alter aquatic habitats, threaten native fish species and valuable recreational resources. The AIS Program was designed to prevent or slow the spread of aquatic invasive species in the province. Once established, these aquatic invaders cannot be eradicated so prevention is the best defense. The main economic objective of the AIS program is to offset or delay the huge financial costs associated with dealing with aquatic invasive species, such as Zebra and Quagga mussels once they establish in the province. According to the recently published Zebra and Quagga Mussel Risk Assessment conducted by Fisheries and Oceans Canada, all water bodies in Manitoba, except for the Winnipeg River system, are considered at high risk for colonization by these invasive mussels. The Winnipeg River system is considered a medium risk. It is expected Zebra mussels will have similar economic and environmental impacts as in the Great Lakes region.

Most recently, the province of Manitoba was invaded by Spiny Waterflea, a small predacious zooplankton. This invader did not exist in Manitoba prior to 2009 and as of 2012, they infested the Winnipeg River system from the Ontario border and both the south and north basins of Lake Winnipeg.

Manitoba is extremely vulnerable to invasion by AIS given the large number of watercraft transported into to province. From 2011 and 2012 watercraft survey data, 92% of trailered watercraft entering Manitoba are coming from jurisdictions (mainly the U.S) that have aquatic invasive species, such as Zebra and Quagga mussels, Asian Carp, Eurasian Watermilfoil that Manitoba currently does not have.

## **Goal and Objectives:**

The primary goal of the Aquatic Invasive Species program is to slow and/or prevent the introduction and spread of aquatic invasive species (AIS) in Manitoba. This goal is achieved through the following objectives:

1. To educate, inspect and survey trailered watercraft and water-based gear users at high-traffic international border crossings, the Whiteshell Provincial Park and other popular recreational destinations for visitors and Manitobans through the Watercraft Inspection Program. The program promotes the clear message – “Clean, Drain, Dry and Dispose” to try to prevent the spread of AIS in Manitoba.
2. To actively participate in a number of ongoing monitoring and outreach initiatives to stop or prevent the spread of AIS in Manitoba. For example, monitoring and routine sampling the Red River at Emerson, Manitoba to test for the presence of Zebra Mussels veligers, collect Spiny Waterflea samples aboard the Namao, the research vessel on Lake Winnipeg, and conducting Rusty Crayfish monitoring in the Birch River, near Prawda and Falcon Lake.
3. To organize, create educational information, and provide presentations on AIS and its goals at public events, stakeholder groups and angling tournaments throughout the year including registrants of fishing tournaments, a booth at the Mid-Canada Boat Show, the Winnipeg Fish Festival and various tradeshow and conferences, advertisements in the Manitoba Angler's Guide and the Fishing and Hunting Guide, presentations throughout Manitoba's Provincial Parkss.
4. Create and print AIS boat launch signs to be posted at high volume watercraft launches in the province. These signs promote the Clean, Drain, Dry, Dispose steps watercraft users can take to minimize the risk to introduce AIS into our waterways.

5. To supply information, such as Spiny Waterflea factsheets to appropriate Manitoba Government regional offices for distribution and posting.
6. To employ students under the STEP Employment Initiative as Watercraft Inspectors.

### **Program Results 2012/13:**

Manitoba Conservation and Water Stewardship continued with its AIS Inspection Program to inspect water-based equipment at popular recreational areas. 2012 marked the twelfth consecutive and successful year conducting Canada's only Watercraft Inspection Program. During the summer of 2012 the following were achieved:

- Conduct 375 watercraft inspections. 96% of inspected watercraft were from the United States. These American watercraft users were from 19 different states and their origins were from jurisdictions that currently have Asian Carp, Zebra Mussels, Quagga Mussels and Eurasian Watermilfoil, all of which are species not currently found in Manitoba. The majority of watercraft inspections were carried out at the Canada/U.S. border crossing at Emerson, Sprague, and the Whiteshell Provincial Park.
- Survey watercraft users about their general knowledge of AIS, provincial regulations regarding the Province's zero possession limit for crayfish, prohibited species, and proper steps they should take every time they launch or leave a boat launch to ensure they do not transport AIS.
- Distribute brochures outlining the steps boaters can take to prevent accidental introductions, floating key chain with the message "Stop Invasive Species," or angling card holder with tackle-box ID cards inside which highlight 10 invasive species Manitoba is concerned about. Materials provide information on Manitoba's toll free number that can be used to report an AIS sighting or to get more information about the AIS program.

# DEPARTMENTAL AND GOVERNMENT STRATEGIC PRIORITIES

## 2012/13 FISCAL YEAR PROGRAM RESULTS

### BEAR SMART INITIATIVE

**Managing Department:** Manitoba Conservation and Water Stewardship, Wildlife Branch  
**Date Approved:** 2012/13 Estimates  
**Total Amount Expended:** \$ 32,699.51

The *Bear Smart* Initiative continued to support activities that focus on proactive prevention to reduce conflicts with black bears as most conflicts are preventable and arise from improperly stored food and other attractants. By practicing *Bear Smart* principles, bears are less likely to become food conditioned and human habituated, thereby enhancing public safety, reducing property damage and the frequency of human-black bear encounters.

As cottage and acreage development expands into bear habitat, the frequency and intensity of negative human-bear interactions is expected to increase. Black bears sometimes cause damage to apiaries, leafcutter bees, crops, livestock, and private property. On rare occasions, they may also be a threat to human safety in areas such as parks, campgrounds, cottage developments, rural sub-divisions, remote areas and even towns and cities. Minimizing conflict between humans and bears will result in fewer bears needlessly being destroyed.

An estimated 27,000 to 33,000 black bears live in Manitoba. The population continues to be stable in most non-agricultural areas. However, in some agro-fringe areas, the population is believed to have increased in recent times. The variability in human-bear conflict is largely influenced by density and recruitment of bears in response to natural food availability, along with the level of bear presence and nuisance activity that the public is willing to tolerate.

In 2012/13, over 1,100 problem black bear occurrences were reported to Manitoba Conservation and Water Stewardship district offices. Preliminary results indicate approximately 17% of occurrences were associated with recreational areas, 16% rural agricultural areas, and 63% rural residential areas. Rural residential areas may be an increasing source of complaints with urbanization in the agro-forest fringe areas, as well as, more permanent residents in some provincial parks.

*Be Bear Smart* Initiative priorities include:

- conducting education and awareness through public outreach programming, including highway, traffic and pedestrian signs, posters, booklets, brochures, advertisements, website and workshops;
- identifying effective strategies to encourage *Bear Smart* behavior over the long-term;
- showcasing positive outcomes to Manitoba communities, including the installation of necessary infrastructure for bear-proofing initiatives; and
- implementing bear-proofing initiatives in provincial parks and other high use outdoor recreational areas.



## Program Results 2012/13

- Two magazine advertisements were published to remind people of ways to reduce bear-human conflicts during the summer and fall, the time of year when bears are preparing for hibernation.
- Promotional materials were developed to assist in getting the *Bear Smart* message out to the public, through booklets, pamphlets, magnets, tattoos, and aprons.
- Parks and Natural Areas Branch interpretive staff continue to play an important role in the delivery of the *Bear Smart* message. *Bear Smart* presentations were delivered to approximately 5,000 park visitors across Manitoba. Interpretive events focused on areas where the potential for conflicts with black bears are likely to occur and included: Birds Hill, Grand Beach, Grindstone-Hecla Island, Paint Lake, St. Malo, and both South and North Whiteshell. Many of these events involved amphitheatre presentations, guided walks, family and school presentations and inspections in campgrounds at camp sites.
- The *Bear Smart* display was exhibited at the Brandon Royal Winter Fair, Ag Days in Brandon, The Cottage Living Show in Winnipeg, and the Mid-Canada Boat Show in Winnipeg, with approximately 4,500 individual contacts made.
- *Be Bear Smart* workshops and presentations were delivered to several educational institutions.
- A student was employed to enter data for each District Occurrence Report (DOR) involving black bears, as well as, assist with *Bear Smart* workshops and public education and outreach sessions. The data analyses assisted in measuring outcomes of the various messages and initiatives undertaken.
- Continue with efforts to improve waste management facilities at Grand Beach Provincial Park with the installation of an additional semi-automated bear proof containment bin. This initiative involved changing the traditional waste collection bins with semi-automated bear-proof containment bins and collection system. To date, a total of 26 bear-proof waste bins have been installed with 11 bins in eleven locations in the campground, and 14 bins at nine locations in the cottage subdivision and the day use areas, and 1 bin in the staff residential area.
- *Be Bear Smart* activity booklets continued to be distributed throughout the province. The booklet is a very popular educational tool for all ages and children can remit the completed booklets to Parks and Natural Areas for various rewards.
- *Be Bear Smart* principles are now incorporated in the Human-Black Bear Conflict Management Policy and Procedures, as well as, draft Emergency Response Policy and Procedures and a broader *Be Wildlife Smart* campaign. These initiatives are intended to reduce the number of human-wildlife conflicts and wildlife species removed.
- An enclosed trailer was purchased for use in storing and hauling educational materials related to the initiative. Future plans to decal the trailer with relevant imagery as well as *Be Bear Smart/Be Wildlife Smart* messaging will allow the trailer to function as a mobile billboard while travelling to, and parked at, tradeshows and public education events.

# **WOODLOT PROGRAM/PRIVATE LAND RESOURCE PLANNING PROGRAM**

**Managing Department:** Manitoba Conservation and Water Stewardship, Forestry Branch  
**Date Approved:** 2012/13 Estimates  
**Total Amount Expended:** \$170,000.00

In 2011, the Manitoba Forestry Association (MFA) engaged a private consultant to review the Association's Woodlot Program. The report and associated resource guide has since served as an invaluable tool to MFA and has guided its efforts to redevelop the program in order to address current/future programming needs. The evaluation was conducted to determine if the program was continuing to meet the needs of landowners in its delivery area. The evaluation provided recommendations for improvements to assist in program management, address woodlot owner concerns, funding partner needs and consider new and emerging program areas. The recommendations are based on stakeholder input, assessment of other woodlot programs and woodlot management plans (WMPs) being offered across Canada and emerging trends related to forest certification, carbon accounting and ecological goods and services.

The following activities were conducted in response to the recommendations set out in the consultant's report:

- Develop the new Private Land Resource Planning (PLRP) program and delivery mechanisms;
- Define the structure of PLRP (Resource Planning, Training and Extension, Services);
- Develop templates for the new Resource Management Plan, Harvest Plan, Small Area Plan, and Tree Planting Plan;
- Determine the process and procedures for field data collection and data entry for the resource assessment;
- Develop client tracking database and develop decision criteria;
- Develop the PLRP; presentation(s), website and multimedia presence and materials;
- Build new partnerships and MOU's with other resource delivery programs (e.g. Manitoba Habitat Heritage Corporation, Nature Conservancy Canada, Conservation Districts, Invasive Species Council of Manitoba, Agriculture and Agri-Food Canada, Manitoba Agriculture Food and Rural Initiatives,) while continuing to work with current partners (Manitoba Model Forest, Woodlot Association of Manitoba, Manitoba Christmas Tree Growers Association, and Manitoba Conservation and Water Stewardship;
- Develop the PLRP Strategic Planning Priorities document;
- Develop an annual work plan for PLRP; and
- Undertake ArcGIS training and PLRP spatial tracking development.

## **Private Land Resource Planning (PLRP) Program Overview**

The Private Land Resource Planning (PLRP) Program continues to promote the wise management of private lands while meeting the needs of the landowners. The program focuses on preserving and/or enhancing natural biodiversity and assists landowners by promoting multi-land use benefits including harvesting, water quality, wildlife enhancement, tree planting (reforestation and afforestation), climate change (carbon sinks), and economic development, such as non-timber forest products, recreation and tourism.

PLRP is the provincial delivery mechanism ensuring that Manitoba's private land forest resource is sustainably managed. It seeks to change private landowner attitudes towards the need for active forest management, as ownership alone will not ensure long term forest ecosystem health. The new Resource Management Plan and delivery process allows PLRP to increase the number of actively managed woodlots, create a resource inventory on private land and increase the education

and awareness of the importance of sustainable resource management. In conjunction with the delivery of resource management plans, PLRP will also focus on delivery of training and extension services.

### **Program Results 2012/13**

Private Land Resource Planning (PLRP) Program delivered private land forest activities in three main areas: Resource Planning, Training and Extension; and Forestry Services in combination with professional development through staff training and workshop/conference attendance.

#### Resource Planning

- 18 Resource Management Plans (RMPs) -15 old Woodlot Plans and 3 new RMP's
- 283.17 hectares under plan

#### Training and Extension

- 24 Workshops with 496 participants
- 5 Skills Based Workshops
- 8 Education Based Workshops
- 11 Presentations

#### Forestry Services

- 4 Forestry Service activities

#### Professional Development

- 14 Conferences/Workshops attended

#### Ongoing GIS Training

Recognizing that 2012/13 was a transition year from the old Woodlot Program, there were activities that fell outside of the new program structure but occurred during the reporting period.

#### Amazing Tree Quest

- Staff participated in RiversWest active lifestyles booth at the Red River Exhibition to help promote the Amazing Tree Quest.

#### Heritage Trees

- Staff helped to administer, promote, and field verify nominated trees for the Heritage Tree Program.

#### National Forest Week

- Staff delivered seedlings to the Manitoba Legislature as a part of an annual tradition celebrating National Tree Day (previously Arbor Day) and National Forest Week.
- Staff participated in free tree giveaways in partnership with Trees for Tomorrow at the Manitoba Forestry Association office and at the Morden Farmer's Market.
- Staff participated in tree planting co-ordination for Qualico Homes combined with youth education of tree planting and forestry basics.

**APPENDIX I -  
Five Year Project Summary**

**Sustainable Development Innovations Fund  
 Five Year Expenditure Summary (\$000)  
 For years ending March 31, 2009-March 31, 2013**

APPROPRIATION	Actual/Adjusted Expenditures				
	2008/09	2009/10	2010/11	2011/12	2012/13
Sustainable Development Innovations Fund	3,390.0	2,932.0	3,376.0	3,337.0	<b>3,058.0</b>
<b>Total</b>	3,390.0	2,932.0	3,376.0	3,337.0	<b>3,058.0</b>