

PROSPECTUS



Lake Diefenbaker Task Force against Aquatic Invasive Mussels

A Committee of the Waterwolf Regional Planning Commission

Joanne Brochu, Chair

Email: jbrochu@sasktel.net

Phone: (306) 255-7602 (cell)

Date: May, 2018

Re: A funding proposal to protect Lake Diefenbaker from zebra mussels

WHY do we need our own protection plan?

This spring, on April 21, more than 60 delegates representing communities and organizations around Lake Diefenbaker met in Elbow for a half-day informational session led by the Provincial Association of Resort Communities of Saskatchewan (PARCS). We heard how last year, PARCS had asked the chair of the Ministry's own Provincial Task Force on Aquatic Mussels about which Saskatchewan lakes were likely the most vulnerable to an infestation of aquatic invasive mussels. Ron Hlasny replied that "while most water bodies south of the Precambrian Shield have suitable habitat and water chemistry for invasive mussels, *Lake Diefenbaker*, Last Mountain and the Qu'Appelle Lakes were most likely of invasion because of their of their high watercraft use".

Back in June of 2017, renowned engineer, Renata Claudia, gave a 2-day workshop in Saskatchewan about invasive mussels. In the course of her workshop, she referred to *Lake Diefenbaker* as **ground zero** for a mussel infestation in Saskatchewan. When questioned about her choice of this term, she stated two reasons: first because *Lake Diefenbaker* would be an ideal location for the launch a 'mussel attack' being that mussels would then spread so easily across the province by way of the South Saskatchewan and the Qu'Appelle Rivers; secondly because it seemed that the Trans-Canada highway was such a natural vehicle for bringing infected boats right by our doorstep!

Later last summer, there were two watercraft in Saskatchewan which had been infected with zebra mussels and which were intercepted just as each was about to launch into a Saskatchewan lake. It was only by sheer luck that each boat was caught and required to undergo decontamination. These two boats were stopped at *Lake Diefenbaker* and at Crooked Lake.

While delegates at the April 21st meeting were heartened to hear that in 2018, the Ministry would be implementing its first two fixed inspection stations, they were discouraged to discover that neither of these will provide the much needed protection for Lake Diefenbaker. Citizens had hoped that there would be enough inspection stations to allow for at least one on the TransCanada Highway from the east. Therefore, a committee was struck under the auspices of the Waterwolf Regional Planning Authority, with the mandate to pursue plans for protecting Lake Diefenbaker utilizing an **at-home protection plan**.

OUR PLAN is multifaceted, with the following main components:

2

1st, inspections - We plan to hire **3 specially-trained hourly employees** who are trained to do inspections and who will work at each of the three largest boat launches on the lake: the *Elbow Marina*, the *Sask Landing Marina* and the *Palliser Park Marina*. We are hoping to share the costs of these employee with the marina operators as they will also collect launch fees and do other duties as assigned by the Marina operators. Sask Environment has promised that Ministry staff will come out and train these employees in the inspection process.

2nd, decontamination – Ideally we would like to purchase **two decontamination units** to be located at each of: the northeast at the Elbow Marina and the southwest Sask Landing Marina. However, these units cost approximately \$35,000 – so we may be limited to one for the first year. For each unit, we would seek to train an operator who would be an **on-call hourly employee** for conducting a decontamination. We would seek to hire a mechanically-capable person because we have been told that the units often need adjustments. Again, Sask Environment has assured us that they will come out and train the person(s) operating the decontamination unit(s).

3rd, citizens' patrol – There are **8 residential locations on Lake Diefenbaker**, each with both permanent and seasonal residents¹. **New subdivisions** are under development². There are also a number of **RV parks**.³ There are also a number of **communities in the surrounding area** who may wish to monitor boat traffic and be member communities of the Lake Diefenbaker Task Force against zebra mussels⁴. Each of these communities will be invited to become a member of the citizen's patrol. The goal will be to promote the responsibility of each community to monitor visiting boats and, where necessary, refer them to nearby inspection sites



4th, education - The committee plans further education events, for adults (at regularly scheduled public meetings) and for children (poster contests, etc.). A Facebook Page is up and running. Pamphlets will be made available for each community to hand out to visiting boaters.

¹ Village of Elbow, Resort Villages of Mistusinne, Coteau Beach and Beaver Flat, OH of Hitchcock Bay, as well as cottage communities in Palliser and Prairie Lake Regional Parks and in Sask Landing Provincial Park (Omahe Bay)

² Sandy Shores

³ Elbow RV Park, Palliser Park RV Park, Hitchcock's Bay RV Park, Rusty's Marina RV Park, Cactus Bloom RV Park

⁴ Towns of Outlook and Central Butte, plus the Villages of Riverhurst, Tugaske, Macrorie, Lucky Lake and Beechy

WHO will be invited to provide financial support for our plan?

The *Lake Diefenbaker Task Force against Aquatic Invasive Mussels* has set out to seek financial support from those groups who enjoy and/or use the Lake Diefenbaker water⁵, as follows:

1st, Communities whose drinking water comes from the South Sask. River

We know that once Lake Diefenbaker becomes infected, the current will carry the veligers (juvenile mussels) down the river to the town of Outlook, to the city of Saskatoon and beyond. Similarly, we know that the waters from the spillway at the southern end of the lake, will flow to Buffalo Pound and the water treatment plants for the cities of Moose Jaw and Regina.

We have all heard about the expensive problems that zebra mussels can cause once they get into pipes and strainers and other mechanical pieces of a water treatment plant.

By contributing to the Lake Diefenbaker protection plan, communities that treat the water from the South Saskatchewan for their drinking water are contributing to a protection plan against major future costs.

“Almost 50% of the province’s population rely on the Saskatchewan Rivers for their daily needs”. www.southsaskriverstewards.ca



- In 2006, Ontario reported actual added costs of **21 to 27 million per year for potable water** from mussel infected sources.
- In 2013, Alberta estimated the **annual added costs for maintaining drinking water systems would be \$ 20,839,921.**
- In November 2016, Regina City Council debated ways to prepare for a zebra mussel infestation in Lake Diefenbaker reaching their water treatment plant at Buffalo Pound.” cthamilton@Postmedia.ca
- In January 2018, after zebra mussels were found in Manitoba waters, Winnipeg City Council announced **one million dollars** would be set aside to be try to prevent mussels from clogging intake structures.

2nd, Hydro-electric plants using the waters from the Sask. River system

Similarly, as the current passes through the turbines at the Coteau Power Plant and down the river to Saskatoon and beyond to the Nipawin Power Plant, it flows into Tobin Lake and through the turbines of the EB Campbell plant. So, in submitting our plans for protecting our lake, we are also asking for the **support of these 3 hydroelectric plants.**

- Almost 20% of Saskatchewan Power is hydro generated and most of that happens at the Coteau Creek, Nipawin and EB Campbell sites. We need to protect these sources of clean energy in our province.

⁵ Note – We are not directing our funding requests to other commercial water users such as the Potash Companies because we have been told that the province is seeking their support for the provincial AIM efforts. This prospectus is directed specifically to users of Lake Diefenbaker water only.

3rd, The Lake Diefenbaker area irrigators

Naturally, because they are major users of the waters of Lake Diefenbaker and the South Sask River, we are asking for the financial support of the irrigators in the Lake Diefenbaker area.

- Agricultural irrigation is the single largest consumptive user from the South Saskatchewan”
www.southsaskriverstewards.ca

4th – Communities and businesses on and around Lake Diefenbaker

Finally, our requests for financial support will go to all communities here on Lake Diefenbaker or in our neighbourhood, as well as those local businesses specifically targeted at tourism. **See ADDENDUM A for more information about how the Citizens on Patrol will operate.**

WHAT COMES NEXT?

Please treat this document as an invitation to contribute as per the attached pages.

Reply using the reply form on the last page, accompanied by a cheque made to:

Waterwolf District Planning Commission (Lake Diefenbaker Task Force)
Box 177, Loreburn, S0H 2S0

Receipts will be issued.

All groups listed on the attached sheets will receive quarterly accounting of the amounts contributed (by email), along with brief program updates.

Individuals are welcome to donate as well.

Please email and let us know if we have forgotten a particular community or group or included one in error.

The sooner we receive contributions, the sooner we begin protecting our lake.

Questions about the program? Phone Joanne at 255-7602 or email: jbrochu@sasktel.net

Questions about payments? Phone Brandi at 230-1097 or email: Waterwolf.sec@gmail.com

Remember that the amounts suggested for contributions (on pages 5/6) are suggestions only. However, if every individual and group strives to meet the targets, the more likely we will be able to implement every facet of the plan.

Let's keep Lake Diefenbaker free from Zebra Mussels!

WHAT ABOUT THE FOLLOWING YEAR(S)?

The *Lake Diefenbaker Task Force against Aquatic Invasive Mussels* sees this first year of operation as a pilot year. Data collected about boats inspected and decontaminated will be useful in planning for the future. Perhaps, in 2019, the province will be able to fund additional highway inspection stations so as to make our lake-based inspections redundant. Certainly we hope to keep our citizen volunteers active, at no cost. The investment in decontamination unit(s) would not need to be repeated. It is the committee's hope that **future funding request would be either minimal or not required.**

PLAN FOR FINANCING PROJECT TO PROTECT LAKE DIEFENBAKER

(Population figures from Municipal Directory)

#1 - COMMUNITIES WHOSE DRINKING WATER COMES FROM LAKE DIEFENBAKER

(Rate: 15 cents per capita, to neared \$100, \$100 MIN, \$20,000 MAX)

Annaheim	210	32	100	villageofannaheil@sasktel.net
Beatty	60	9	100	villageofbeatty@sasktel.net
Bethune	399	60	100	villageofbethune@sasktel.net
Blucher, RM of	2,006	301	300	rm343@sasktel.net
Bradwell	166	25	100	rm343@sasktel.net
Briercrest	159	24	100	villageofbriercrest@sasktel.net
Broderick	85	13	100	villageofbroderick@yourlink.ca
Bruno	611	92	100	admin@brunosaskatchewan.com
Burstall	378	57	100	burstall@sasktel.net
Cabri	390	59	100	townofcabri@sasktel.net
Caron, RM of	576	86	100	rm162@sasktel.net
Caronport	994	149	100	rm162@sasktel.net
Clavet	410	62	100	clavetvillage@sasktel.net
Corman Park, RM of	8,568	1,285	1,300	rm344@rmcormanpark.ca
Coteau, RM of	475	71	100	rm255@sasktel.net
Cudworth	814	122	100	town.cudworth@sasktel.net
Dalmeny	1,826	274	300	dalmeytownoffice@sasktel.net
Disley	67	10	100	villageofdisley@sasktel.net
Drinkwater	70	11	100	villageofdrinkwater@sasktel.net
Dundurn, RM of	611	92	100	admin@townofdundurn.ca
Dundurn, RM of	2,404	361	400	rm314@sasktel.net
Enfield, RM of	226	34	100	rm194@sasktel.net
Ernfold, RM of	226	34	100	rm194@sasktel.net
Excelsior, RM of	806	121	100	rm166@sasktel.net
Grand Coulee	649	97	100	grandcoulee.cap@sasktel.net
Hague	874	131	100	town.hague@sasktel.net
Hanley	511	77	100	townoffice@townofhanley.ca
Hepburn	688	103	100	administrator@hepburn.ca
Humboldt	5,869	880	900	info@humboldt.ca
Kinistino	654	98	100	townofkinistino@sasktel.net
Lacadenia, RM of	535	80	100	rm228@yourlink.ca
Lake Lenore	284	43	100	lakelenorevil@sasktel.net
Lannigan	1,377	207	200	town.lanigan@sasktel.net
Leader	863	129	100	admin.leader@sasktel.net
Loreburn	107	16	100	villageofloreburn@sasktel.net
Loreburn, RM of	327	49	100	rm254@sasktel.net
Lucky Lake, RM of	140	21	100	rm225.vll@sasktel.net
Maple Bush, RM of	192	29	100	rm224@sasktel.net
Marquis	97	15	100	rm191@sasktel.net
Martensville	9,645	1,447	1,400	corporateservices@martensville.ca
Melfort	5,992	899	900	city@cityofmelfort.ca
Moose Jaw	33,890	5,084	5,100	citymanager@moosejaw.ca
Morse, RM of	427	64	100	rm165@sasktel.net
Muenster	430	65	100	muenster@sasktel.net
Osler	1,237	186	200	info@townofosler.com

Pense	587	88	100	townofpense@sasktel.net
Pense, RM of	508	76	100	rm160@sasktel.net
Regina	215,106	32,266	20,000	jnicol@regina.ca
Riverside, RM of	477	72	100	rm168@sasktel.net
Rosedale, RM of	526	79	100	rm283@sasktel.net
Sarnia, RM of	221	33	100	rm.sarnia@sasktel.net
Sask Landing, RM of	415	62	100	rm167@sasktel.net
Saskatoon	245,376	36,806	20,000	webmaster@saskatoon.ca
Shields	288	43	100	shields@xplornet.ca
South Qu'Appelle, RM of	1,275	191	200	rm157@sasktel.net
St. Louis	415	62	100	villageofstlouis@sasktel.net
St. Louis, RM of	1,086	163	200	rm431@sasktel.net
Star City	384	58	100	town.starcity@sasktel.net
Strongfield	40	6	100	villageofstrongfield@yourlink.ca
Thode	157	24	100	thode@xplornet.ca
Tuxford	113	17	100	tuxfordvillage@sasktel.net
Vanscoy	462	69	100	vanscoy@sasktel.net
Victory, RM of	380	57	100	rm226@sasktel.net
Wakaw	922	138	1,700	town.wakaw@sasktel.net
Warman	11,020	1,653	1,700	bobs@warman.ca
Weldon	187	28	100	villageofweldon@sasktel.net
TOTAL REQUESTED FROM COMMUNITIES			59,800	

#2 HYDRO-ELECTRIC PLANTS 2,000 x 3 **\$6,000** Coteau Creek, Nipawin, EB Campbell

#3 209 IRRIGATORS X \$500 **104,500**

#4 COMMUNITIES to join CITIZENS' PATROL

1-	Town of Outlook	1,500	North and east side of upper lake
2-	Sandy Shores Resort	500	Inspections at Elbow Marina
3-	Village of Elbow	1,500	
4-	Elbow RV Park	500	
5-	RV of Mistusinne	1,000	
6-	Town of Central Butte	1,000	East side of main lake
7-	Village of Riverhurst	500	Inspections at Palliser Launch
8-	Village of Tugaske	200	
9-	Palliser Reg Park & Rusty's	2,500	
10-	RV of Coteau Beach	1,000	West side of main lake
11-	Hitchcock Bay & campground	1,000	Inspections at Palliser Launch (by ferry)
12-	Village of Macrorie	200	
13-	Village of Lucky Lake	500	
14-	Village of Beechy	200	
15-	Prairie Lake Reg Park	1,000	South end of main lake
16-	RV of Beaver Flat	1,000	Inspections at Sask Landing Marina
17-	Omache Bay in Sask Landing	1,000	
18-	Cactus Blume in Sask Landing	500	15,600

30 LOCAL TOURISM BUSINESS X \$500 **15,000**

TOTAL REQUESTED DONATIONS **185,300**

ADDENDUM A

Instructions for communities choosing to join CITIZENS ON PATROL

#1 - Getting started:

Step one is for your Council or Governance Board would pass a motion agreeing to be 2018 members of the Lake Diefenbaker Task Force. The implication of the motion would be:

- 1) You would pay the fee for 2018 shown on page 6. This is a once-only fee for 2018. (We are hoping to cover most of the equipment and infrastructure costs in 2018 from these and other donations. Operating costs for 2019 would be much less or none if we can partner with the province.)
- 2) **We are requesting payment by June 16 or earlier.** We are asking our own communities on or around the lake to help is the initial early start-up costs, as soon as possible.

Step two: As soon as we hear from you, the **Coordinators of the Citizens Patrol** will deliver to you:

- **Signs**⁶. (Meanwhile you will have posts put in place⁷ and have cut a piece of plywood, 24" x 30" to nail to the post as backing for the sign.) Upon receipt of the signs you will print the cell numbers of the volunteers who have agreed to work as citizens on patrol, using a black permanent marker (see #2 below).
- A **bundle of pamphlets** that you will use to hand out to your citizens and to out-of-province boater that you interview.
- A single copy of a **children's coloring book** that you can copy and distribute to children in your community.



#3 – How it will work

- **Your community will find** at least one, preferable more, citizens who will volunteer to be your Citizens on Patrol. They will understand that **being on the Citizens' Patrol means that they:**
 - Will allow their cell phone numbers to be posted on the signs.
 - Will coordinate with the other Citizens on Patrol so that one of them is in the community most of the time.
 - Will carry the phone number of the inspector at the nearest Marina as well as the phone number of the Marina, in their cell.
- **When they receive a phone call** from a driver of an out-of-province vehicle (or from a citizen reporting such a vehicle in the community), the Citizen on Patrol will proceed immediately to the location of that vehicle and engage the driver in conversation, with the following 3 questions:
 - **1st** - Welcome to _____. Our community is part of the Lake Diefenbaker Task Force against Zebra Mussels and we have a few questions we would like to ask. **Where are you from?**
 - **2nd** – **Where did you last have this boat in the water?** (**Alert for any provinces to the east such as Manitoba or Ontario, or any states in the US**)
 - **3rd** – **How long ago did you take the boat out of the water?** (**Alert for anything fewer than 30 days**)

⁶ One sign for the entrance of your community. A second sign for your community's boat launch.

- If either of the alerts come up, the Citizen on Patrol **asks the driver to take the boat to the nearest Marina** (Elbow, Palliser Park, Sask Landing) for a formal inspection.
- In the presence of the vehicle's driver, the Citizen on Patrol **phones the cell phone of the inspection person**⁸ at the closest Marina and says to the inspector (example follows):

"Hi _____, This is _____ from _____. We have a boat here that was in a lake in Manitoba about a month ago. We would like to send him over for an inspection. Yes, right now please. OK, he's driving a red SUV and pulling a blue pontoon boat. His license number is _____.⁹ He's on his way right now." The Citizen on Patrol thanks the driver for being cooperative.

- If the driver is non-cooperative, the Citizen on Patrol informs the driver that he/she will then have to phone the TIPS line and report the vehicle's license plate number. The vehicle will then be required to meet an inspector at a designated location at a designated time.
- If the driver still refuses to go the Marina, the Citizen on Patrol calls the TIPS LINE to report this boat.

TIPS: 1-800-667-7561

- **If the inspector finds evidence of zebra mussels**, the inspector will either call the TIPS line requesting a decontamination unit or, if a decontamination unit has been purchased for Lake Diefenbaker, calls the Lake Diefenbaker decontamination operator to come in.
- **The volunteer coordinators of the Lake Diefenbaker Task Force Citizens on Patrol against zebra mussels** are:
 - Joan Soggie, saskjoan@gmail.com, 854-2274
 - Norma Johnson, ripple04@yahoo.ca, 854-4512, 867-6420

⁸ Each Citizen on Patrol carries the cell phone number of the staff member at the Marina who is trained in inspections – and also the phone number of the Marina in case there is no answer to the first call. If that trained inspector is not on duty at that time, he/she can be called in and paid overtime to do the inspection.

⁹ Taking the license number helps ensure that the driver travels to the inspection site.

Contact information: communities choosing to join CITIZENS ON PATROL

9

<u>North and east side of upper lake (inspections at Elbow Marina)</u>	Signs	Fee
1. Town of Outlook (signs at east & west entrance 10 town, launch) riderdall@sasktel.net , town@town.outlook.sk.ca , 867-8663	3 signs	\$ 1,500
2. Sandy Shores Resort (signs at entrance to subdivision and at Danielson launch) info@sandyshoresresort.ca , 249-2929	2 signs	\$ 500
3. Village of Elbow (signs at entrance to village, at marina, at Tuft's Bay) elbow@sasktel.net , 854-2277	3 signs	\$ 1,500
4. Elbow RV Park (sign at entrance to RV Park) Need contact information	1 sign	\$ 500
5. RV of Mistusinne (signs at entrance to village and at launch) mistusinne@sasktel.net , 854-4637	2 signs	\$ 1,000
<u>East side of main lake (inspections at Palliser Launch)</u>		
6. Town of Central Butte (sign at Coop service station) townofcentralbutte@sasktel.net , 796-2288	1 sign	\$ 1,000
7. Village of Riverhurst (sign at entrance to village) riverhurst@outlook.com , 353-2220	1 sign	\$ 500
8. Village of Tugaske (sign at entrance to village) Rm223@sasktel.net , 759-2211	1 sign	\$ 200
9. Palliser Regional Park (1 sign at park entrance and 1 at launch) Jerrod Klassen (jrk@sasktel.net , 796-7769) Park office: 353-4604	2 signs	\$ 2,500
DLCD Cottage Community (Bev Rolfe, 796-7767) (sign at entrance)	1 sign	
Rusty's Marina & RV Park (1 sign at launch and 1 sign at RV Park)	2 signs	
<u>West side of lake (inspections at Palliser Launch – by ferry)</u>		
10. RV of Coteau Beach (signs at village entrance and at launch) coteaubeach@sasktel.net , 331-8540	2 signs	\$ 1,000
11. OH of Hitchcock Bay (signs at hamlet entrance and at launch) boblong@sasktel.net ,	2 signs	\$ 1,000
12. Village of Macrorie (sign at entrance to village) vmacro@sasktel.net , 243-2010	1 sign	\$ 200
13. Village of Lucky Lake (sign at entrance to village) Rm225.vll@sasktel.net , 858-2234	1 sign	\$ 500
14. Village of Beechy (sign at entrance to village) beechy@sasktel.net , 59-2205	1 sign	\$ 200
<u>South end of Diefenbaker Lake (inspections at Sask Landing Marina)</u>		
15. Prairie Lake Regional Park (signs at park entrance and at launch) prairielakeregionalpark@outlook.com , 859-2099	2 signs	\$ 1,000
16. RV of Beaver Flat (signs at entrance and launch) rvbeaverflat@gmail.com , 741-3362	2 signs	\$ 1,000
17. Omache Bay Cottage Subdivision (signs at entrance and launch) COA: Barry Foster, Kyle, 375-2352, Mervin Backstrom, 375-2611	2 signs	\$ 1,000
18. Cactus Blume Campground (Privately owned, sign at entrance) jbardahl@sasktel.net , 741-0390	<u>1 sign</u>	<u>\$ 500</u>
	33 signs	\$ 15,600

Agreement to provide donation to:

Lake Diefenbaker Task Force against Aquatic Invasive Mussels

A Committee of the Waterwolf Regional Planning Commission

Donor: _____

City of, Town of, Village of, Resort Village of, Rural Municipality of, OH of, Name of individual or agency

Donor Representative: _____

Mayor, Reeve, Administrator, Manager, Owner, NAME

Signature

Donor Contact Info: _____

Mailing address with postal code

Email address

Phone Number

Donation: \$ _____ dollars and 00/100

\$ _____00/100

A receipt will be issued.

Cheque: _____ is made out to: Waterwolf District Planning Commission
(Lake Diefenbaker Task Force)

_____ is enclosed with this form and mailed to:

Waterwolf District Planning Commission
Box 177, Loreburn, SK, S0H 2S0

OR _____ will follow by mail, this form may be emailed to
jbrochu@sasktel.net so that the committee can proceed with
making arrangements in anticipation of the funding to follow
by mail.

This donation is made with the understanding that:

- Funds will be used only for the purposes described on page 2 of this prospectus, to protect Lake Diefenbaker from infestation by zebra mussels.
- There is no guarantee that the donor will make any future donation;
- The Task Force will provide both financial and program reports quarterly;

Questions about the program? Phone Joanne at 255-7602, email: jbrochu@sasktel.net

Questions about payments? Phone Brandi at 230-1097, email: Waterwolf.sec@gmail.com