



BIG SAUK LAKE ASSOCIATION

INFORMER

FALL EDITION 2010

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From the President
Dear Fellow Members,

Well, what a summer this has been! Spring and warm temperatures came early. We probably worried a bit because April and May were relatively dry. We recorded just 0.32" of rain the last 18 days of May. Our fears were allayed as we experienced many warm days of heat and humidity during the next three months. We recorded 13.52" during that span. Most memorable was the fierce wind and hail storm which wrought extensive damage to our member's property on the north end of the lake. All of us hope that restoration has been progressing on schedule and that the anxiety of residents has abated.

Right now, a hint of fall has arrived with gusto. A thirty mph NW wind and a morning temperature of 55 degrees are harbingers of a new season.

During the summer, several people asked me what is going on concerning the lake. My response was frankly, "not very much". Let me be specific."

- The Board decided not to meet in July due to a lack of urgent business.



- We have not had any communication with our "carp harvesting" team in recent months. As a result, no further funds have been paid beyond the initial investment in the "cribs" designed to hold the carp prior to transferring into the truck-trailer. We continue to hold over \$7,000 in a CD. Of course, we will be in contact with Mr. Adams later this year.

- We were informed of the likelihood of having a carp tournament sponsored by a state organization. Again, no further information has been received.

- I would like to report that we have completed several projects including publication of an updated handbook, completing our agreement with the IF and the SWCD to invest in pollution control on Ashley and Hoboken creeks, and acquiring full 501c3 status. These projects are still on-going.

- On the positive side, we were pleased to see how lake shore residents banded together to contact aerial spray companies to deal with the caterpillar infestation.

- I can report another successful interaction with the public at our Fair Booth. Many thanks to Board members who gave of their time to staff it. They tallied 631 visitors which was nearly 100 more than 2009. To my knowledge, no other lake association in our COLA invests in a fair booth to promote their lake and water quality issues. Our investment in small gifts to children (and adults) results in a host of parents visiting us as well.

- Following the August storm I called several members who live near the southern-most tornado warning siren to find out if the siren was working. They replied in the negative. However, at our August Board meeting, a couple of our members stated that indeed it did activate. In the meantime, I had called our siren technician to check it out. He did not appear at the appointed time. Subsequently, I

received a call from a member who reported that the siren did not work during the most recent test last Wednesday. After a second call to our technician, I found out that he has been in Wadena re-installing their radio transmitters and receivers damaged by the tornado. He promises to be here the week of September 6th. Hopefully the siren will be fixed.

- Although our attendance was low (as usual), our Annual Meeting was, I believe, an enjoyable event. Attendees were treated to a tasty breakfast, a brisk meeting, and a knowledgeable, informative speaker. Major issues covered at the meeting included election of Board members.

ROAST PORK SUPPER

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LAKE WATCH SOUTH BASIN



There were very, very few weeds in the South Basin again this year and because of this the clarity of the water was poor. At the end of June the clarity readings were below 3.0 feet. Following are the readings taken in 2010

DATE	DEPTH (IN FEET)	COLOR	WATER TEMP (F)
5-18	8.5	Clear	60
5-25	8.0	Clear	68
6-7	7.0	Clear	70
6-16	6.0	Green	66
6-24	3.5	Brown	71
6-30	2.5	Brown	72
7-08	2.5	Brown	75
7-15	2.5	Brown	74
7-21	2.5	Brown	76
7-28	2.5	Brown	76
8-04	2.5	Brown	78
8-11	2.0	Brown	77
8-18	2.0	Brown	72
8-26	1.5	Brown	72
9-01	1.5	Brown	72

The lake elevation remained fairly steady this year. The elevation on May 18th, the day the gauge was set, was 1226.62 feet or 1 inch below the summer target elevation. The last reading on September 1st was 1226.80 or 1 ¼ inches above the target elevation. The highest reading was recorded on August 18th at 1227.00 or almost 3 ¾ inches above the target elevation.

*Southern Basin depth 18 feet
Submitted by Vern Beckermann*

LAKE WATCH NORTH BASIN (NEAR GULL POINT)

by Dave and Tim Weir

DATE	CLARITY DEPTH
5 - 30	8.5 FEET
6 - 15	6.0
6 - 21	4.5
6 - 29	3.5
7 - 5	4.0
7 - 18	3.0
7 - 24	3.5
8 - 26	3.5

NEWSLETTER NEWS ITEMS

Members, you are our best source for events, issues, and information. Our "collective" eyes and ears come across many tidbits of information in the months between newsletters. If you would like this newsletter to mention these topics, please give me a call at 320.351.2513.



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Upper Sauk River Water Quality Assessment Project

A Summary

Since 1998, the upper reach of the Sauk River, from the headwaters at Osakis Lake to Sauk Lake, has been listed as impaired for dissolved oxygen creating a measurable impact on aquatic life. This reach of the Sauk River is impacted by livestock use, bank sloughing, and watershed runoff. This Upper Sauk River Water Quality Assessment Project was established to address these concerns by conducting a comprehensive assessment of the Sauk River. The project consisted of three components 1) a physical assessment of the Sauk River, 2) a macroinvertebrate assessment to determine species present and population, and 3) a water chemistry assessment of the river including four flowage lakes on the Sauk River (Juergens Lake, Guernsey Lake, Little Sauk Lake and Mud Lake)

In early June of 2008, trained volunteers canoed the Sauk River to survey and assess both banks for erosion, vegetated buffers, drainage discharges and other environmental concerns. The SRWD encountered very high water levels during the 2008 physical assessment. This plus spring flooding in 2009 caused the SRWD to conduct a second assessment in 2009 during low flow. Observations of bank vegetation, surrounding land use, soil characteristics, channel width, vegetation height and measurements of length, depth and vertical height at each site were recorded, as well as interpretations of possible causes. All sites of erosion were logged with a GPS unit, photographed and entered into a data base. In addition, obstructions to river flow, areas of livestock use, fences and direct discharge drainage tiles were documented. Obstructions interfere with the river's designation as a state canoe route. The assessment identified 214 sites with a calculated soil loss estimation of 2,275 tons per year. This calculated to approximately 99 acres of soil/sediment transfer. This part of the assessment concluded that several sections of the Sauk River have severe or major bank erosion.

Water monitoring was conducted on four river sites as well as the four flowage lakes. As to the river samples over a two year period, the Sauk River is maintaining summer average total phosphorus (TP) and total suspended solids (TSS) concentrations at or below state levels. However, individual samples collected in early spring recorded concentration levels 75-100+ % higher than state standards. The Guernsey Lake outlet site recorded TP concentration as high as 440 micrograms per Liter (ug/L) in March, 2009. That sample also recorded 202 ug/L of dissolved phosphorus. It is believed that these spikes were linked to the internal loading and flushing from Guernsey Lake and also at site SR 1-6 east of Cedar Lake on the Cedar Lake road.

In general Guernsey Lake had the poorest water quality out of the four flowage lakes. This is not surprising since the first 10 miles of the Sauk River, upstream of Guernsey, recorded the most soil loss and nutrient runoff potential. This Lake appears to be acting like a settling basin, and periodically releases nutrients during

snowmelt and major rain events. Little Sauk Lake is located downstream and is the deepest lake (25') . It's TP and Chlorophyll-A data exceeds state standards yet meets clarity standards at this time. However, given the dissolved oxygen (DO) profiles for 2008 and 2009, it may only be a matter of time before Little Sauk Lake begins to develop internal loading concerns. Juergens and Mud Lakes are classified as Eutrophic based on the Trophic State Index (TSI) values for these lakes. As shallow lakes, these two act as final settling basins prior to the Sauk River flowing into Sauk Lake.

The final commentary was made on results of the macroinvertebrate sampling. This was done at six site locations, three times per year during the 2008 and 2009 open water seasons. The samples were analyzed by the Lake Superior Research Institute in Superior, Wisconsin under the direction of Dr. Kurt Schmude. Recall that the type and concentration of different species is linked to water quality. The upper two sites recorded has potential for good water quality and a diverse population of the invertebrates. The middle two sites revealed species which were highly tolerant to low oxygen and high nutrient levels. They were rated "poor" to "very poor" in the types of invertebrates found. The two sites furthest downstream improved to the extent that the river was upgraded to "fairly poor".

The final conclusion to the study connected the Sauk Lake TMDL final report. It stated that "34% of the nutrient loading coming into Sauk Lake via the Sauk River is coming from the outlet of Osakis Lake. The four flowage lakes may also become nutrient contributors to Sauk Lake, rather from retention areas, due to the internal loading within these lakes. If the nutrient runoff and erosion concerns are not addressed in Osakis Lake and along the Sauk River it is just a matter of time before these flowage lakes no longer support aquatic life and begin to impact the ability for the Sauk River to support aquatic life as well."

Editor's note: The final 37 page report contains detailed charts, photographs and maps detailing the results of the two-year analysis. The editor has attempted to summarize these results. Readers are encouraged to visit the SRWD office to view the complete report.

**For information on advertising
in the INFORMER call:**

Mike Blenkush at 320-352-0131

or E-mail:

blenkush@wisper-wireless.com

Continued from page 1 "From the President"

All incumbents were reelected (they had volunteered to serve again) and no one in the audience came forward to join. A discussion of alternative projects was held since we no longer are investing in a spraying operation. The consensus seemed to be to invest in a greater stocking effort. Our invited geologist, Alan Knaeble, presented an illustrated slide program illustrating a geologic history of our earth, Minnesota, and particularly the effect of the advance and retreat of massive glaciers during the last Ice Ages on our local topography. A separate short article expands his remarks.

I wish to close with a few editorial comments. I am very cognizant of the fact that articles contained in our newsletter should be strictly factual. However, the following comments are my own and do not necessarily represent the views of any Board members or would be a part of any position letter or paper without Board permission.

- I am going to say again. GO TO YOUR 2011 CALENDAR AND CIRCLE THE LAST SATURDAY IN MAY PRIOR TO MEMORIAL DAY. UNLESS FURTHER INFORMED, OUR ANNUAL 2011 MEETING WILL BE HELD THAT DAY! Details will appear in next spring's INFORMER.
- I read a series of 3 articles which appeared in the Minneapolis Tribune this past June. The first article, titled "LOSING OUR LAKES" documented how local officials in Cass and Crow Wing counties approved 88% of the requests for variances from existing rules governing new construction. My take on this is that if the builder has enough money to build a lake home from \$500,000 to \$1 million, an extra fee of \$395 in Cass and \$1000 in Crow Wing, is a mere pittance. Freedom to allow pollutant-laden storm water to flow into the lakes and to wipe out valuable native vegetation seems to be the norm.

The second article titled "A STINKING MESS" used Lake Independence west of Minneapolis as an example of a lake with a growing pollution problem. This lake has been studied for 15 years. Scientists know that the phosphorus loading can be attributed as follows: 58% from chemical fertilizer and manure runoff, 23% from urban development, and the remaining 19% from erosion, goose droppings, failing septic systems, and others. Despite the documented research, the article quotes the "deniers".

A third article titled "OVERWHELMED", told the story of state conservation Officer Cary Scoutz and his wife Nikki, also a conservation officer. He is one of just 191 enforcement officers who are supposed to protect 12,000 lakes and other natural resources from safety and environmental violations. While lakefront development is booming along with a huge increase in boat traffic, staffing has remained stagnant. Is this what critics of "big government" desire?

This leads me to my last editorial comment. In 2007, the state legislature appropriated \$1 million to fund research into changing the outdated state standards. Hundreds of hours and numerous public hearings around the state involving all manner of stakeholders resulted in a series of recommendations. If approved by the governor it would have gone to an administrative law judge who would have overseen public hearings around the state. Guess what. Our absentee governor returned in time to reject the recommendations of the stakeholders on the grounds that they would interfere with private landowners rights. His decision effectively nullifies all the hours and dollars spent over the previous three years and sends it back to the DNR to start the process over. You may think what you like but as for me, I am disgusted with this ruling. Please note the article with a number of quotes both supporting the governor's position and opposing the decision.

In closing, my thanks are extended to all of our members who have supported us this year. Your Board of Directors will work hard to earn your support to improve our lake from the standpoint of clarity, fishing and recreation.



Submitted by Bob Bjork

Big Sauk Lake Association Balance Sheet As of 9/1/2010		
Assets		
Operating Funds	Checking Account	\$1,122.87
	CD #33536-Due 10/25/10	\$4,000.00
Map Sales	Savings Account	\$1,915.42
Total Assets		<u>\$7,038.29</u>
Liabilities		\$0.00
Total Liabilities		<u>\$0.00</u>
Net Balances		<u>\$7,038.29</u>

Visit Us on the Web

For BSLA information, notices, and lake-related links
or to contact us.

This site is courtesy of the
World Wide Web Foundry, LLC.
A BIG thank you to BSLA member,
Lynn Woodward.

MEMBERSHIP

The following is a listing of BSLA Residential and Business members who have paid dues for calendar year 2010 as of August 31. **THANK YOU** for your support of Big Sauk Lake and the Sauk Centre community!

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THANK YOU for your support of Big Sauk Lake!

DNR's Lakefront Development Rules Rejected by Pawlenty

Editor's Note: The content of this article is based on several reporter's stories: Dennis Lein St. Paul Pioneer Press; Dan Gunderson, MPR; Tom Meersman, Mpls Star Tribune; Joe Albert, Associate Editor, an Outdoor journal; and comments found in a Minnesota Waters August Update.

Dennis Lein reported in his article (8/13/2010) that "Minnesota regulators spent years devising more protective shore land and dock rules to guide new development along state lakes. But Governor Pawlenty sent them back to the drawing board this week, rejecting their revisions as "overreaching" and as undermining local control and property rights." He suggested the Legislature take up the matter next winter."

"The rules you forwarded to me regarding these issues do not strike a proper balance between protection of our lake and waterways and the equally important right of our citizens to enjoy them and their property, Pawlenty wrote in a letter to Department of Natural Resources Commissioner Mark Holsten.""

Albert, in an August 19th story also quoted from Pawlenty's letter: "... these rules over-reach and should be instead the subject of specific legislative attention. The proposed rules would essentially terminate local decision making through state dictated command and control mechanisms, and unfairly undermine important private property rights with little accountability from elected officials."

Lein's column touched on issues which were addressed in the new rules. "The proposed updates are a mixture of new standards aimed at protecting lakes from increased development pressures which have intensified in recent decades. Size limits would have been placed on many types of large docks with tightened or revised requirements for many new buildings, developments and sewage systems. With more people living and playing along lakes, there's more runoff from lawns, hard surfaces and septic systems. That boosts phosphorus and sediment levels, promoting algae growth, reducing water quality and destroying habitat for fish. In many areas, dock sizes have grown much bigger with lengthy structures containing elevated platforms replacing older ones of modest

size." Gunderson also commented on several proposals. "One of the proposals would have limited the size of a private platform to 120 square feet, or 170 square feet if a portion of the access dock is included. Another proposal would prohibit new development within 50 feet of the shoreline." "Even Pawlenty acknowledged that some problems exist, such as people who have instilled docks or platforms that are unreasonably large." The governor mitigated this observation by saying "However, the vast majority of lakeshore property owners have been responsible and reasonable with their docks or platforms. This good faith approach has served generations of Minnesotans reasonably well without the state government imposing a one-size-fits-all standard when lakeshore circumstances vary so widely."

There were supporters of the governor's action on dock rules. Meersman quoted Sam Stern, Minneapolis attorney and lobbyist for Property Owners Protecting Useful Access Rights who said it was "a common sense approach recognizing that not all lakes are the same. Some lakes with steep slopes or minimal beaches require larger docks for safety and enjoyment."

Others were not buying the governor's implication that state government was responsible for these new rules. Lein quoted Scott Strand, executive director of the St. Paul based Minnesota Center for Environmental Advocacy. "It isn't like these rules were cooked up in the heads of bureaucrats. There was a long, detailed, fairly exhaustive process (in which) all of the competing points of view were brought in. The governor isn't giving the process the respect it deserves."

Strand was also quoted in Meersman's column. "This is not just a blow to the environment," "This is a blow to resort landowners and lake associations and a lot of other people who really depend on us being able to clean up the lakes for their livelihoods."

A commentary letter issued by Minnesota Waters, representing 300 lake associations across the state, reflected Strand's position. "These standards were the product

of the largest public input processes ever used by any state agency. More than 500 people engaged in the public input process and more than 350 people met in over 45 advocacy meetings over a five-plus year time frame. Input was collected from representatives of local governments, non-profits, lake and stream associations, and the general public around the state. The MN legislature appropriated over one million dollars for the effort."

Marian Bender was quoted by Gunderson "that (these stakeholders) ...met every month to go over the rules sentence by sentence. They had time to voice their opinions. MN Waters was also on the Committee and I didn't hear that the other members felt that the DNR was overreaching."

Pawlenty did say that even without the proposed rules, local units of government can still go ahead and adopt similar ones. Bender, again quoted in Gunderson's column, seemed to reflect this challenge. "It's disappointing, but it doesn't mean it's going to stop at the local level. If our governor won't support it, then the people will and we'll help do everything we can to help."

The DNR, meanwhile, said it will go back to work. As Lien wrote, "The governor's concerns are similar to those voiced by many of our citizens and stakeholders," Holsten said in a statement. "We will be reviewing these administrative rules and developing next steps to move forward." We will have to see if current state and local candidates for political office will take a stand on the rule making process just rejected. No doubt, changes will occur only after the start of the next legislative session and a new governor is in the saddle.

NOTE OUR ADVERTISERS:

Should you visit any one of them, please mention their advertisement in our newsletter!

DNR FISHERIES MANAGER RESPONDS TO BOARD QUESTIONS

Subsequent to our Annual Meeting and based on suggestions from that meeting, the President was asked to contact DNR Fisheries Manager, Eric Altena. We inquired about the possibility that a contribution could be made to the DNR to add to the stock of fish in Big Sauk Lake. We asked for his comments on various species, quantity to stock and the proper time for stocking. Eric's reply centered on four species and concluded with a final suggestion. Some of his remarks are paraphrased and others are direct quotes.

●Walleye: In 2009, the DNR stocked about 2.5 million fry. Last year sampling had a catch rate of 70+ per hour. Based on a very conservative survival rate of 1%, a minimum of 25,000 fingerlings survived. The cost of fingerling stocking is about \$17/lb and by weight, the average is 20/lb. Eric also reported that the rate at which Sauk Lake is stocked (1,389 lbs) equates to roughly 27,780 fish. (Editor's comment - at \$17/lb, the cost to the association would be about \$23,600. Another way to look at this is per 100 fingerlings: This converts to 5 lb at a cost of \$85). "There has been some discussion in the DNR that the fingerlings that survive from a fry stocking are better fit as well. "... I am making the assumption based on relative abundance (from electrofishing) that our survival rate from fry was in the neighborhood of up to 5%. This would equate to roughly 125,000 fingerlings out there right now. So in the walleye department, my feeling is that we really would be wasting money."

●Panfish: "We typically start winterkill populations with only 30-40 pairs of individuals (bass/bluegill/crappie) in systems that do not have fish already. Now based on

our most recent efforts of evaluating what was going on out there on Sauk Lake, I would suggest there are really limited issues other than water quality and the relative lack of vegetation. The fish population seems to be in recovery from the carp boom.. We saw plenty of crappie and more than one hundred sunfish. Bass have obviously have done well in the system in the absence of a high density bluegill population."

●Northern Pike: "In almost every other system in our area we strive to have gill net catch rates lower than 8/net (like Sauk Lake has). We noted natural reproduction and survival in our electrofishing. I really do not see a need to be stocking northern pike either."

●Yellow Perch: "Historically the gill net catch has been higher, yet our notes from electrofishing for walleye fingerlings suggest that yellow perch are increasing again. There were plenty of perch around (so much so we were distracted by them when trying to identify walleye)."

Conclusion: "My advice would be to save your money because mother nature has been helping us out. If the board decides that stocking is the only panacea, then I would suggest walleye fingerlings this fall. This would not interfere with our efforts that much (although, I still feel it would have minimal value). I feel that there is still a need to work with local land owners on progressive methods to filter runoff and protect and even restore shoreland habitat. That could have far more value than trying to stock fish."

Editor's Note: The italics are mine to emphasize the distinct contrast in views.

STATE GEOLOGIST PRESENTS AT ANNUAL MEETING

State geologist Alan Knaeble was the featured speaker at our Annual Meeting. Knaeble grew up in Minneapolis, attended St. John's University and received a degree in History from St. John's. Later, he received a second degree in Geology from the University of Minnesota. He offered a slide presentation illustrating the geologic history of our planet, our state and primarily the effect of the advance and retreat of massive glaciers during at least four Ice Ages.

He has done extensive mapping of topography in Todd and Stearns Counties and is the author of Chapter Four in the text supplement to the Geologic Atlas, Stearns County, Minnesota. His article is titled "Geologic Thrusting along the St. Croix Moraine, Stearns County, Minnesota. Slides of this activity were illustrated by layer upon layer of "slabs" seen in a borrow pit located about four miles northwest of Kimball behind the Powder Ridge ski hill. The borrow pit is so named because it was formed by excavations required to build up the summit of the ski hill and regrade existing ski runs. The oldest of these "slabs" of deposits is from the Cretaceous Period, some 70+ million years old.

Mapping glacial deposits coupled with examination of drill cores provides evidence for location of gravel deposits and potential water sources as well as providing a history of the processes which have shaped our land.

Of local interest is a small outcrop of gneiss (pronounced "nice") which can be seen on the north edge of the north side parking lot of Diversicom here in Sauk Centre. There are two other outcrops of this ancient rock type. One is close to Ashley creek near West Union and the second is in Melrose. The outcrop here is covered by two slabs of concrete to give warning to motorists not to drive over the rock. This outcrop is from the Archean Eon of earth's history and while not officially dated in a lab, is believed to be somewhere between 2.8 and 3.2 billion years old. It is one of the oldest bedrock outcrops in North America.

In addition to the slide show, Alan brought a nice array of maps of Minnesota topography and a collection of rock and mineral types from the state. He remained after the meeting to answer many questions.

On the Lighter Side

A recent e-mail received from my brother-in-law had a photo of bedraggled looking rooster having a most disheveled look and missing numerous feathers. The caption said something like "I've had a rough year." With this theme in mind, here are a few quips which followed (with the exception of one!)

- The economy is so bad that I got a pre-declined credit card.
- I ordered a burger at McDonalds, and the kid behind the counter asked, "Can you afford fries with that?."
- CEO's are now playing miniature golf.
- If the bank returns your check marked "Insufficient Funds", you have to call them and ask if they meant you or them.
- Hot Wheels and Match Box stocks are trading higher than that of GM.
- McDonalds is now selling the "1/4 ounce".
- Desperate folks are now trading in jewelry for a flock of salmonella-free chickens.
- Parents in Beverly Hills and Malibu are firing their nannies and learning their children's names.
- A truckload of Americans was caught sneaking into Mexico.
- Dick Cheney took his stockbroker hunting.
- Motel Six won't leave the lights on anymore.
- BP Oil laid off 25 Congressmen.

And we conclude with a few thoughtful comments.

- Plant a tree to live in the faraway future.
- Prepare and prevent instead of repair and repent.
- Intelligence without ambition is like a bird without wings.
- Books had instant replay long before televised sports.
- More truth is found in digging for facts than in paving over the conclusions.
- Democracy is not a static thing. It is an everlasting march.

Whale Word Search Challenge

Are You Ready for the Whale Word Search Challenge? How many words can YOU find? Be sure to look up, down, across and diagonally! And when you're through, try out some of the other activities outlined on the next page! You're in for a *whale* of a time!

C H I T W C R U S T A C E A N R I K T A
 A E L I S Z E M P N D I T N K H E P S I
 N N I H P L O D R S O N E J L P O T Z C
 A O O M S I K C A B P M U H D R N I A E
 D I J R L X N O A G T I X B P S O A R W
 A T L J T A S E N L C R C O M E I J S H
 T A W C L H R E J Z F A I L C I T C R A
 U R P L A T E S O N G S K D N J U Y F L
 S G I X Z L P R E O E X Q A L D L P C I
 K I D O A Y P U N T I S E N A T L E I N
 X M S B D L I S O B S C P O D I O S R G
 R D N Y G D L R J C O W H A M O P L E T
 E I E S M B F S E N Y T Y R I T X A H M
 F I L T E R Q T I A F L T P N E S G N N
 C O L S L B A H E D G Z O L K S I X A I
 A P I E O D F K U X S U P C E R Z O E B
 M I R O N A U D L N W Z L R G N E J C T
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 J M B C F O M N Y L F O N C B H R S T C
 R C K D I B O W H E A D K I L I C P E N
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 A Q H B D T R X E I O A L O E T W E D A
 N D J F P H Y W P U H O M I R H J C D C
 G O A C I L O A H E W D Q M A E P T I O
 E W P X L S G R I A O B R L A X H E U L
 R D T O O T H E D R L X E S Y M C D Q O
 E Z Q L T L S I A W B D I H W O I L S H
 D N O T K N A L P O O Z U J G R E Y F C
 H E S A B T M C A L L O S I T I E S T E

adopt
 arctic
 baleen
 beluga
 blowhole
 blubber
 blue
 bowhead
 calf
 callosities
 Canada
 cetacean
 cow
 crustacean
 dolphin
 echolocation
 endangered
 extinction
 filter
 fin
 fish
 flippers
 fluke
 grey
 humpback
 krill
 long-finned pilot
 mammal
 migration
 minke
 narwhal
 northern bottlenose
 ocean
 orca
 phytoplankton
 plates
 pod
 pollution
 porpoise
 protected
 right
 sei
 songs
 squid
 toothed
 tusk
 water
 whale
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