

Lower Nipit Improvement District

Letters Patent 1965.
160 Twin Lake Rd.,
Kaleden V0H1K0

Minutes for 55th Annual General Meeting 10:00 am

Registration 9:50 am
November 21, 2020

Present: Glenda Stewart-Smith, George Windsor, Val Windsor, Pam Mann, Sandi Wilson, Reinhart Maier, Noreen Maier, Coral Brown, Alec Brown, William Kresowaty, Janet Hooge, Harvey and Carolyn Jager, Nora and Pat Walker, Jim Vriend, Larry Arnett. **Invited Guest:** Subrina Monteith, RDOS Director for District I.

Call to order at 10:02am

- LNID President Glenda Stewart-Smith gave a message of welcome and thanked George Windsor for his many years of service and introduced the new Secretary Bill Kresowaty
- Chair Val Wilson introduced herself and gave a brief explanation of Parliamentary procedure and Use of Zoom
- Agenda – Moved by **Sandie Wilson** and seconded by **Reinhart Maier** to accept agenda as circulated – motion carried

Minutes of the 2020 AGM

- Moved by **Sandi Wilson** and seconded by **Reinhart Maier** to accept the Minutes of the 2020 AGM as circulated –motion carried

Reports

- Glenda Stewart-Smith presented the Trustee and Water Report –Summary
 - o A brief history of the conversion report was given and why it has been postponed. RDOS staff has decided to send it back to Ecora to expand flood mitigation area.
 - o Water levels in Lower Twin Lake dropped by 9 inches so far this spring. Storage at Horn Lake and Turtle Pond is full. Nature Trust will open the gates to release water on June 30. Love Your Lake rep Al Peat has completed their survey of riparian areas of each lot on the lake and a link has been sent to all property owners with suggestions. LNID has received a \$500 grant for riparian zone restoration. Water data monitoring equipment has been purchased and Coral Brown has been collecting the data on a regular basis.

Coral and Glenda attended a meeting with Gorman Brothers which has agreed to commission a hydrologist to ensure that their logging activities will not negatively impact run-off in the Twin Lakes watershed area.

- **Moved by Sandi Wilson, seconded by Reinhart Maier** to accept Glenda's report— carried.
 - *Note: **See attachment** for Glenda's full report.
- Financial Report presented by **Pam Mann**, Treasurer .
 - 2020 Financial Report was reviewed by Grant Fortin. Acceptance of 2020 Financials was moved by **Sandi Wilson**, seconded by **Reinhart Maier**--carried.
 - Proposed Budget for 2021 had been emailed to members by **Pam Mann**. Moved by **Sandi Wilson**, seconded by **Reinhart Maier** to table any fee increase and pass proposed budget as is—carried.
 - *Note: See APPENDIX at end of document for Pam's full report.

Ongoing Business

- The Dobson Report, "Recommended Lake Levels for Lake Management" remains pending.
- 2018 AGM motion was: 1) "That the LNID convert to a Service Area (SA) of the RDOS with recommendations from Don Dobson/letter of intent." 2) "That the RDOS identify the scope and the cost of the conversion with the intent of having a LNID vote once costs are determined". **Conversion to a RDOS Service Area** (Service Area is a legal term to provide authority for RDOS management).
- **Subrina Monteith, RDOS Director Area "I"** was invited to provide an update on the conversion process and to answer questions.
 - Ecora submitted its feasibility report to RDOS regarding conversion of the LNID but the RDOS staff has returned it to Ecora and asked it to enlarge its scope in order to include the entire watershed area.
 - The LNID can no longer access infrastructure grants because the province wants to dissolve irrigation and improvement districts.
 - She cautions the LNID that anything we do on our own we must ensure that it meets the 200 year flood standards.
 - She also advised that it would not be in our best interests to convert if the RDOS does not have a Water Advisory Committee.

Trustee Election Follow-up

- Sandi Wilson was re-elected as Trustee by acclamation.

New Business & Questions

- **Pump/Gravitational Pipe** : Reinhart asked how it was determined that a gravitational run-off pipe would have to be 6 feet in diameter. Subrina replied that this was the 200 year flood requirement. Reinhart made the point that such a large pipe is much too big and is an unreasonable and dangerous requirement. He further asked if the standards were available for review and how that could be done. Subrina replied that she would look into it and pass the information on to Glenda.

Next AGM: date set for **Saturday, May 21** at 10am.

Adjournment at 10:58 am.

- Moved by **Sandi Wilson**, seconded by **Reinhart Maier** that the meeting adjourn. Carried.

June 19, 2021

Glenda Stewart-Smith
Chairperson

Date

June 19, 2021

William Kresowaty
Secretary/Treasurer

Date

Any questions contact the board at:

Glenda Stewart-Smith, chairperson
email: lnidcttee@gmail.com

Mandate of the LNID

We are a Land Improvement District (not an Irrigation District) “to divert or impound water to protect property, to facilitate development of a park or to reclaim or drain land for similar purposes”. We are a stewardship group of the Twin Lake. We monitor and check the Horn Creek waterway for debris/blockages, record lake levels, do clarity tests, and take a water sample for a biannual lake water analysis to Caro Lab in Kelowna. We have a members list, and history of the area. We provide some water education – “Protect our water. aquifer and watershed”. We are concerned about water quality and quantity. We communicate with RDOS and different Ministries as necessary – MoE, MoFLNRO, MoCSCD, MoTI and OBWB . We attend relevant meetings and respond to decisions which affect us.

The LNID has 2 diversion water licenses. The 1973 Botham Report gives a history and describes a cooperative system for some control of the Twin Lakes Waterway.

FYI **“Water Stewardship” branch** is responsible for Ground Water Protection Regulations. They also have well data available online: Twin Lakes monitoring wells # 403 ID 34383 (256 ft. to bedrock with static level at 120 ft) and Horn Lake south well is # 404 ID 34382 (113ft. deep to bedrock with static level at 80 ft pumped at 10 US gpm with 6 inch pipe).

<https://a100.gov.bc.ca/pub/wells/public/indexreports.jsp>

The Ministry of Environment, now called Forests Lands and Natural Resources also enforce the following regulation (available online at bclaws.ca)

The Water Protection Act,

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96484_01

Protects British Columbia's water resources by:

- Re-confirms the ownership of surface water and groundwater in the Province
- “The Province owns the water in British Columbia and has the proprietary right to ensure its protection and sustainable use. The Water Protection Act reconfirms that surface water and groundwater are one, and always have been vested in the Crown, except in so far as private rights have been established.”

APPENDIX 1: FINANCIAL REPORT – JUNE 2021

UNID	Actuals 2019	Budget 2020	Actuals 2020	Forecast 2021	Budget 2022
Sources of Funds					
Op. Assess.	\$ 20,400.00	\$ 20,400.00	68x\$300	\$ 20,400.00	68x\$300
Interest Revenue	\$ 838.96	\$ 500.00	\$ 795.00	\$ 500.00	\$ 500.00
Arrears/Int./Penalty	\$ 145.00	\$ -	\$ -	\$ -	\$ -
Donations	\$ -	\$ -	\$ -	\$ -	\$ -
Transfer from Reserves	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 21,383.96	\$ 20,900.00	\$ 21,195.00	\$ 20,900.00	\$ 20,900.00
Uses of Funds					
Honorariums					
Chairperson	\$ 1,250.02	\$ 1,250.02	\$ 1,250.02	\$ 1,250.02	\$ 1,250.02
Trustees-2	\$ 1,999.94	\$ 1,999.94	\$ 1,999.94	\$ 1,999.94	\$ 1,999.94
Secretary	\$ 999.97	\$ 999.97	\$ 999.97	\$ 999.97	\$ 999.97
Treasurer	\$ 999.97	\$ 999.97	\$ 999.97	\$ 999.97	\$ 999.97
Total Honorariums			\$ 5,249.90	\$ 5,249.90	\$ 5,249.90
acct	\$ 1,260.00	\$ 1,200.00	\$ 1,616.00	est \$ 1,400.00	\$ 1,400.00
legal				\$ -	\$ -
Survey Fees				\$ -	\$ -
New Monitoring equipment		\$ 5,000.00			
Watershed Management Plan					
Bank chg./Int.	\$ 59.50	\$ 65.00	\$ 18.00	\$ 65.00	\$ 65.00
Licenses/Fees/Dues		\$ 50.00		\$ 50.00	\$ 50.00
Water - annual licenses	\$ 289.60	\$ 100.00	\$ 200.00	\$ 150.00	Water Licence \$ 150.00
Office&Postage	\$ 312.44	\$ 800.00	\$ 68.31	\$ 400.00	\$ 400.00
Web site				\$ 150.00	\$ 150.00
Insurance	\$ -	\$ -	\$ -	\$ -	\$ -
Water Testing	\$ -	\$ 150.00	\$ 78.75	\$ 150.00	\$ 150.00
GTLASS donation	\$ -	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00
Travel and training	\$ -	\$ 300.00	\$ -	\$ 300.00	\$ 300.00
Total Admin Exp.	\$ 7,171.44	\$ 13,414.90	\$ 7,730.96	\$ 8,414.90	\$ 8,414.90
Operating Expense for Pipe					
pump maintenance	\$ -	\$ 2,000.00	\$ 6,594.00	\$ 4,000.00	\$ 4,000.00
pump maintenance SRW	\$ 1,305.27	\$ -	\$ 260.00	\$ -	\$ -
amortization Exp	\$ 60.95	\$ 76.00	\$ 945.10	\$ 950.00	\$ 950.00
hydro for pump	\$ 298.91	\$ 2,000.00	\$ 2,403.93	\$ 1,000.00	\$ 1,000.00
New Pump(option)	\$ -	\$ -	\$ -	\$ -	\$ -
Total Pump/Pipe Exp	\$ 1,665.13	\$ 4,076.00	\$ 10,203.03	\$ 5,950.00	\$ 5,950.00
Net Income(matches Financials)	\$ 12,547.39	\$ 3,409.10	\$ 3,261.01	\$ 6,535.10	\$ 6,535.10
Reserve Schedule			Opening Balance \$18,000.00	Opening Balance \$ 12,036.56	Opening Balance \$(4,963.44)
			additions \$ 3,000.00	additions \$ 3,000.00	additions \$ 3,000.00
			Monitoring Equip. \$ (8,963.44)	Purchase Pump \$ 20,000.00	purchases \$ -
			Closing Balance \$12,036.56	Closing Balance \$ (4,963.44)	Closing Balance \$(1,963.44)

2020 - 2021

LNID Trustee Report to Members

This past year has been a challenging one for everyone as we have dealt with the restrictions and uncertainties associated with the COVID-19 pandemic. We hope all LNID members and their extended families are safe and healthy and will continue to be so in the future. Our thanks goes out to Pam Mann, George Windsor and, of course, Coral Brown for their help and support. The board would like to take this opportunity to acknowledge the many years of service that George Windsor has given to the LNID. He served the LNID in many roles and positions. George stepped down from his position as Secretary this past fall and will be greatly missed.

Last year, due to health restrictions and concerns over the pandemic, our AGM was postponed until November and held over Zoom. Prior to that meeting, a trustee election was held by email and Glenda Stewart-Smith, the LNID chair was elected to another three year term. Sandie Wilson is a long-time resident and is completing her third year on the board and another email trustee election will be held prior this year's June 19, 2021 AGM. Bill Kresowaty has volunteered to take on the role of LNID Secretary.

Background:

There are only 2 Land Improvement Districts in BC, but we are included in Provincial regulations with Irrigation Districts (IDs) that provide water to 3 or more on one intake, such as a Community Well. The LNID is governed under the Ministry of Municipal Affairs & Housing (MoMAH). The LNID has specific regulations that must be followed and all Bylaws (operating taxes, meeting procedures) must be approved. We are a form of Government with direct access to taxation, but with a mandate for works/land improvement described as "drainage" in the 100 year old Water Act which still is our guide under the 2016 Water Sustainability Act.

We have held thirteen meetings from June 25, 2020 to May 27, 2021.

At the May 19th, 2019 AGM members passed resolutions:

1. "That the LNID convert to a Service Area (SA) of the RDOS with recommendations from *Don Dobson*

– letter of intent"

2. "That the RDOS identify the scope and the cost of the conversion and with the intent of having a LNID vote once costs are determined"

Much of our work up to May 2021 has been on bringing these resolutions to fruition. In December 2019, the RDOS Board passed a resolution to proceed with a conversion study to explore the different implications of creating a Flood Mitigation Service Area. The study is complete and we were expecting to have had it presented to the RDOS Board by now, but the decision has been made to send the study back to address the possibility of expanding the service area to include the waterway and flood basins down into Oliver and other areas. It is difficult to estimate when this additional study will be completed and what the result will be.

There are many possible outcomes to the conversion study - it is possible that RDOS may decline to take us on, the cost to LNID members may be high or it may be an ideal solution for us. Having additional geographical areas added to the service area may be of benefit to us.

The important thing to remember is that before any decision is made, LNID members will be consulted and there will be a vote on the process.

The issue for us is the funding we need for the gravitational pipe that has been recommended as the standard. This is likely beyond our financial capability at this time without looking at increasing the tax assessments. Conversion would provide access to provincial grants that LNID cannot apply for. Improvement Districts (IDs), of which Lower Nipit (Twin Lake) Land Improvement is one, are not eligible for Government Infrastructure Grants, but they can apply for Conservation Project Grants or perhaps Gas Tax Grants when approved by the Regional District (RD). This lack of access to provincial funding has been resisted by the 211 Improvement Districts, without success. Decreased access to funding has been an initiative to decrease IDs so that IDs will come under the RDs created in 1966. There are a few possible options open to us: maintain the status quo (pumping either with our pump or a replacement pump), wait for the conversion decision and hope for provincial grants to alleviate the cost, proceed with the gravitational pipe independently (possible liability issues if not done correctly) or a combination of some or all of these. We were again fortunate last summer (summer of 2020) with regards to flooding. The water running into the lake throughout the summer and fall was ongoing and the decision was made to begin pumping in September to make room for 2021 spring freshet. We asked and received permission to pump again this spring and decreased the lake level by 9 inches (from 17 feet at ice off to 16 feet, 3 inches once pumping ended). Pumping was discontinued as flow into the lake is slow at this time. Lake levels are continuing to drop and the lake is at 16 feet as of May 26th. If necessary, we will request to resume pumping again. We have included a summary of the Water Triggers for 2020 along with the Trustee Report as Appendix I. Love Your Lake is a shoreline evaluation program developed by Watersheds Canada and the Canadian Wildlife Federation (CWF). They evaluated our lake last summer and have provided each property owner with a report on the health of their individual shoreline. LNID successfully applied for a \$500 grant that will be put towards a demonstration garden. The process and plans will be showcased on the LNID website for those interested. Lake

level monitoring equipment which provide real-time feedback on lake levels and lake health has been installed. The data logger cost is covered by money from a former RDOS Director's grant.

Glenda and Coral were able to participate in a meeting with Gorman Brothers Logging and expressed concern about possible impact the logging could have on water flow and drainage into the lake. They have committed to having a hydrologist assess their works and make sure any runoff will not contribute to spring flooding.

The LNID website is complete. It contains information including the budget, LNID board meeting minutes, upcoming events, water reports, Twin Lake history and more. The URL is www.twinlake.ca

Please feel free to email us at

lnidcttee@gmail.com

Respectfully Submitted by the May 2020 – May 2021 Board of the Lower Nipit (Twin Lake) Land Improvement District. Trustees: Glenda Stewart-Smith, Sandie Wilson, Reinhard Maier, Director: Coral Brown, Treasurer: Pam Mann and Secretary: Bill Kresowaty

2020 Twin Lake Trigger Levels/Waterway Management

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Triggers	Date	UTL storage Ft/m	TP storage Ft/m	LTL vertical Ft/m	Date	UTL stor Ft/m	TP stor Ft/m	LTL Ft/m
		2020						
		Feb 10 132%N					Spring & fall rains ++	
Snow pack /Precipitation								
LTL ice off	Apr 15		.49/.15		0/0		14.4/4.389	
DL 1469s culverts ice out					Apr 12 H2O for 40ft			
Water into UTL	Apr 18		.49/.15		0/0		14.4/4.389	
Water over UTL spillway	May 2		3.98/1.2		0/0		14.4/4.389	
Water into LTL	May 5		3.98/1.2		3.28+ /1+		14.67/4.47	
Horn Creek stops	Jun 4		3.11/.95		2.62/.8		17.08/5.20	
Spillway stops	Jun 30		2.95/.9		1/3.28		17.76/5.41	
Water to LTL stops	Oct 17		.656/.2		1.31/.4		17.9/5.45	
Dam culvert open/shut					Jun30/Oct.1			
LTL Peak	Sept 17		.820/.25		2.62/.8		18.2/5.54	
Ice -on	Dec 3 to 21				.820/.25		17.118/5.217	
Pump on	Sept 17		.820/.25		2.62/.8		18.2/5.54	
Pump off	Dec. 17		.820/.25		Pump fr. 2 lakes + rain/snow		17.118/5.217	
Total Freshet			8.13' (.82' +18.2') - (14.4'+.49')- 4'EUS				Water-in until Oct.17.	
							(peak - low -EUS)	

EUS	~4 ft.	Varies with precip., temp. & ground water level.
Total pumped	TL (UTL+LTL) total peak 19.02' (.82'+18.2'). 19.02' + 4'EUS = 23.02' - 17.938' = 5.082' - 4'EUS = 1.082 ft.	Groundwater above average Less water use?
Projected Next Capacity Addition info.		LTL 2.19' (flood at 19.2') + UTL 3.18' = 5.37 ft. Bottom load from many washouts & 2019-2020 extensive logging may affect future water records.