

Lake Dam Committee Meeting Minutes
7 January 2023

Call to Order - Meeting called to order at 9:34 AM.

Roll Call Committee Members: (P)=Present; (A)=Absent; (E)=Excused

Lou Jackson (P)	Deanne Landsverk (P)
Dennis Muretta (P)	Duane Landsverk (P)
Tim Reber (E)	Teddy Lovgren (P)
John McRoberts (A)	Dave Kohler (P)
Maureen Glenn (P)	Karen Kohler (P)
Steve Glenn (P)	Mandy Paradise (A)
Joel Gray (P)	Pat Paradise (P)
Brian Smith (E)	Linda Smith (E)
Jarred Foss (P)	Gary Wilson (P)
Erik Landsverk (A)	Hannah Landsverk (P)

Guests: John Ingemi 3-244, Dan Bussler 5-92, Roger Milligan 3-44, Dean Dyson 2-200, Janelle Lovgren 2-285, Mike Berni 3-83, Marie Landsverk 3-98

Chairperson's Opening Comments: Teddy Lovgren

Teddy opened the meeting by thanking Joel for his service as Secretary and LD/CAM Work Order Liaison. He advised the committee that the positions are open and requested volunteers to fill the role moving forward. It was confirmed that meeting minutes are recorded on Zoom until the meeting minutes are formally accepted at the following committee meeting.

Meeting Minutes approval

Teddy moved to approve the 3 December meeting minutes. Dennis seconded. The committee voted to approve unanimously (Attachment 1 -- LD Meeting Minutes 3Dec2022 (Final)).

Correspondence:

Teddy advised LLCC had received Lake Advocates response to BoD questions regarding Reserve Study Estimates updates ; this correspondence was addressed as part of *Old Business* below.

No correspondence received from LLCC Members.

Status of November Motions to the Board

Both motions to the Board from last month's meeting (Stream Walk budget, BoD/CAM to establish relationship with Frank Foundation) were approved by the BOD.

CAM Report: Roger

Roger stated his written report (Attachment 2 -- LD CAM Report Jan 7, 2023) prior to the meeting and briefly addressed the attached LD budget / actuals (Attachment 3 -- Actual to Budget Lake Dam Nov 2022).

LD Committee approved the CAM's PAR to repair the gate access at Angelia Park, NTE \$1,500 (Attachment 10 -- PAR for Anglia Security Gates PAR 12.20.2022). Funding for this PAR was previously approved by the BOD as part of the 2022-2023 budget.

Parks Report: Maureen/Steve

Maureen and Steve reviewed their Parks Maintenance Report (Attachment 4 -- Park Maint. Rpt December 2022). Parks continue to look good considering the time of year. Goose poop remains an issue at the parks, especially at the Inn. Alder trees that fell at Lake Lep Park were cleaned up by Maintenance. Trees next to the park could be an issue in the future. Inn roof needs cleaning, but since

Lake Dam Committee Meeting Minutes
7 January 2023

the Inn is not within LD's purview, Maureen was requested to remove it from the Park Maintenance Report checklist.

Docks/Floats Permits: Teddy - No activity this reporting period.

Boat Registrations: Gary - No activity this reporting period.

LD Action Item List: Teddy

Teddy reviewed the Action Item List (Attachment 5 -- LD Action Item Status 6Jan2023 Rev 1 [updated to make current as a result of the 7 Jan meeting]).

Duane advised that he is still looking for a local Dam Engineer since his network of professional contacts were primarily large, corporate-focused and expensive.

Jarred advised he continues to develop an Adopt-a-Park Program. He has spoken with members about volunteering and will reach out to Mark Hendricks at the Pro-Shop re: framework of the Greens Committee Ambassador Program so there is continuity between committees and members wanting to volunteer.

John Ingemi advised that Dorothy Powter's Family agreed to defer to LLCC as to how the community would like to memorialize Dorothy for her many years of support to LLCC. Lou was not able to get any input from the Inn Committee re: Dorothy, but recommended LLCC develop one memorial to recognize all members that have gone before us.

Additional actions established during the meeting included:

- 1) Duane to provide a template to LLCC regarding establishing a "Book of Standards" for office personnel to begin developing for LLCC.
- 2) Roger will pursue Park Host hats and high-visibility vests to supplement the current lanyards used by the Park Hosts to identify themselves to members at the Parks.
- 3) Maureen will establish a shoreline plan for LD and Compliance Committees to use as an audit tool in order to begin reigning in the many violations observed (but not often reported) by members. Steve and Duane volunteered to assist.
- 4) Dennis will reconstitute the lake rules sub team to address the e-foil issue previously raised by the BOD
- 5) Dave to coordinate with Dennis regarding existing processes for LLCC rules changes and coordination with the community that would eliminate the need for an additional process developed by LD.

OLD BUSINESS:

Lake Leprechaun Clean Out Project: Steve/Maureen/Tim

No updates this reporting period. Roger still awaiting follow up from LA for a report.

Park Host Status: Dave

Dave made a motion to accept Dale Smith as a new park host during the 2023 season (See Motion to the Board Section of these Minutes).

Matt Jensen is expected to return as a Park Host at Angelia Park this season.

LD committee agreed to Dave's write up of a Park Host Coordinator process document. Dave will send the Job Aid to the Office for filing and posting on the LLCC website.

LD Committee desires strong/consistent Wi-fi access at the parks for Park Hosts. Teddy will add this need as an agenda item moving forward so LD does not lose sight of the need.

Dock/Floats Compliance: Teddy

Lake Dam Committee Meeting Minutes
7 January 2023

Roger stopped the installation of a boat lift at Div 1 Lot 29, pending application by the owner and approval by LLCC.

Lakes Long Term Health and Welfare: Brian

Teddy (on behalf of Brian) advised that the Lakes Long Term Health and Welfare sub team continues to meet and is drilling down to actionable items to support the overall objectives of the meeting. Brian provided the latest sub team meeting minutes to provide insight into the subteam's activities/status (Attachment 7 -- LTLH Team Mtg Minutes 20230103). Sub team looking to benchmark our lakes against other local lakes to see how they are addressing their lake health issues. Any LD member wishing to lead or attend a field trip on this issue is welcome to step up.

Long Term Vision for Parks / Restrooms: Dennis

Three PARs have been developed to address, park bathroom locks, door frames and roofing. Sub team will meet again to finalize prior to submitting to broader LD team for motion to the BOD.

Lake Rules Changes Process: Dennis

Dennis developed a change process for committee review (Attachment 8 -- Proposed Process for LD Document Revision and Attachment 8 -- Attachment 1 to Proposed Process for LD Documents Revision). Dave believed change process is already captured via other LLCC processes. Dave to provide these processes to Dennis for review and consideration to determine if an additional process is needed.

Lake Advocates Estimates . Reserve Study Inputs

LA provided feedback to specific BOD questions (Attachment 9 -- BOD Questions for Lake Advocates with LA's Response). In review by BOD to support BOD reserve study activities.

Video Conference Capability -- No update this reporting period.

Network Drive for Committee Use -- No update this reporting period.

LD Projects -- Teddy

- **Special Projects Manager – Roger**
Posting remains open, pending qualified candidates. John Ingemi to work with Teddy to update requisition (Job Specifications, Part Time, Salary adjustment? Etc.) to increase applicant responses.
- **Cranberry Creek Retention Pond(s)** - Awaiting proposal from LA.
- **Cranberry Creek Sediment Survey**
Lake Advocates to perform. Budget (NTE \$14K) approved by BOD based on last month's motion to approve.
- **Bird Sanctuary Weed Control**
Addressed as part of BOD queries to LA. Updated PAR expected to be needed to capture scope and cost.
- **Cranberry Creek / King's Cove Bathymetric Survey**
LD requested entire lake to be surveyed and to compare it to 2015 survey to assess sediment impact to Lake Limerick since the last lake dredge.
- **Inn Island Bridge/Culvert** - No update
- **Inn Island NE Section Repair**
Pat still awaiting feedback from Hanson Excavating to discuss project and better understand their bid from the 2017 timeframe.

Lake Dam Committee Meeting Minutes
7 January 2023

- **Banbury Bathroom Upgrade**
Remains in work. PAR to be developed once configuration is agreed.
- **Park Bathroom Door / Cypher Locks / Roofs**
Held for Long Term Vision of Parks / Restroom Sub Team feedback to the Committee. Dennis will call a final meeting with the Sub Team to finalize the PARs developed for these park improvements; then to be voted on during LD February meeting and sent to the BOD for approval.
- **Leprechaun Dredging**
LLCC continues to wait for a proposal from LA re: location of specific dredging and recommended type of dredging.
- **Adopt-a-Park – Jarred**
Jarred has begun developing a framework for this program. He will check with Mark Hendricks re: the Green's Committee Ambassador Program to use as a potential template for LD's volunteer sub team.

NEW BUSINESS

Lake Level – Joel

History as to how LLCC got to the current summertime high level was distributed to sub team members. A follow up meeting with the sub team members will be scheduled during January in order to report out at the LD Committee's February meeting.

Lake Dam Secretary Position – Teddy

The committee needs a secretary. A motion was made to allow for a stipend for the position in order to motivate interest in filling the position. (See Motions to the Board – below)

Work Order Status – Teddy

Teddy is looking for an LD member to volunteer to fill this position.

Fishing Derby – Dennis

Pat made a motion to approve the 2023 fishing derby Motion to the Board that Dennis developed (Attachment 11 -- BOD Request to conduct 2022 Derby). Dennis seconded it. The motion passed unanimously. (See Motions to the Board – below)

Dennis reached out to WDFW to request Lake Limerick be included in the WDFW Trout Derby this year. The request was forwarded to the WDFW biologists for their consideration. Stay tuned.

Lake Limerick Buoy Replacement Program -- Teddy

Teddy referenced the Roger's plan to replace 15 buoys a year for approximately \$120 per buoy (including anchors and tethers). There was some discussion re: volunteers painting the buoys as a cost saving measure, but it was ultimately agreed LD would defer to the CAM's approach. LD requested that the buoy specifications be added to the Book of Standards the LLCC Office is developing.

Guest Input - None

Review of Commitments & Action Items:

Action items were reviewed and new action items from today's meeting will be added to the spreadsheet by Teddy.

Review of Motions to the Board:

See Below

Lake Dam Committee Meeting Minutes
7 January 2023

Motion to Adjourn:

Meeting was adjourned at 12:13PM

Next Meeting – Saturday, 4 February 9:30AM via Zoom

Look Ahead:

Jan 21 Board of Directors Meeting

Feb 4 Lake Dam Committee Meeting

Feb 18 Board of Directors Meeting

Motions to the Board

Motion #1

LD Committee requests LLCC BOD approve Dale Smith as a Park Host at Log Toy Park for the 2023 Season (if former Log Toy Park Hosts return for 2023, Ms. Smith would be posted at Banbury Park).

Justification:

- Ms. Smith has been vetted by LD Committee's Park Host POC, Dave Kohler
- LLCC CAM / Office have performed a successful background check.
- Ms. Smith has family within the LLCC community, and LD believes she will be a good addition to our community

Motion #2

LD Committee requests the BOD approve a financial stipend for the LD Secretary position.

Justification:

Current secretary is stepping down

No current LD Committee member is willing to volunteer for this position

Estimated hours per month 8-10 hours to prepare for, attend and document the monthly meetings

Future LD Committee meetings will not be documented without a secretary

Motion #3

The Lake/Dam committee requests that the BOD authorize the 2023 fishing derby and expenditure of the associated FY2022/23 budget of \$7400. The derby will be held on April 24th this year (fourth Sat. of April which coincides with opening day of lowland lake fishing). Authorization will allow the Derby committee to address long lead issues associated with derby planning including obtaining derby permits. WDFW requires that we obtain permits for both conducting a derby and for purchasing and planting trout for the derby (and for Lake Leprechaun). The 2023 derby will be similar to our 2022 derby. Significant elements are: 1) Adult and Children's tickets at \$12 each 2) Fish Plant From Nisqually Fish Farm one week prior to derby 3) Ticket sales at the Pro Shop, DJ's Market (pending agreement with DJ's) and on-line (in-work) 4) Derby Prizes; 1st place @ \$100, 2nd place @ \$60, 3rd place @ \$40, 4th place @ \$20, 5th place @ \$10 for both adult and children's divisions. 5) Raffle Prize drawing at conclusion of awards pending community donations.

Lake Dam Committee Meeting Minutes
3 December 2022

Call to Order - Meeting called to order at 9:31 AM.

Roll Call Committee Members: (P)=Present; (A)=Absent; (E)=Excused

Lou Jackson (P)	Deanne Landsverk (P)
Dennis Muretta (P)	Duane Landsverk (P)
Tim Reber (E)	Teddy Lovgren (P)
John McRoberts (P)	Dave Kohler (P)
Maureen Glenn (P)	Karen Kohler (P)
Steve Glenn (P)	Mandy Paradise (A)
Joel Gray (P)	Pat Paradise (P)
Brian Smith (P)	Linda Smith (P)
Jarred Foss (P)	Gary Wilson (P)

Guests: John Ingemi 3-244, Dan Bussler 5-92, Roger Milligan 3-44, Dean Dyson 2-200, -Hannah Landsverk 3-97, Rob Koenig 3-152, Janelle Lovgren 2-285, Mike Berni 3-83

Chairperson's Opening Comments: Teddy Lovgren

Teddy opened the meeting by advising the team of long time committee member, Dorothy Powter's, passing. He read a tribute written by Brian Smith for the Newsletter and committee acknowledged she will be missed.

Teddy thanked Brian for pulling together the inputs for the December newsletter. He also thanked the contributors for their writings.

Meeting Minutes approval

Deanne moved to modify the November minutes to recognize Hannah and Erik Landsverk being in attendance. With that adjustment, Karen moved to approve the minutes and Duane seconded the motion. The motion passed unanimously (attached as LD Meeting Minutes 20221105 (Final)).

Correspondence:

Teddy advised LLCC had received Lake Advocates Water Quality and Technical Memorandum Report since the LD Committee's last meeting – discussion re: this correspondence was addressed as part of *Old Business* below.

Status of November Motions to the Board

No Motions were made to the BOD during the November LD Committee Meeting.

CAM Report: Roger

Roger statused his written report (attached as LD CAM Report Dec 3, 2022) prior to the meeting. He emphasized:

- Only half of the weir boards from Lake Limerick have been removed to allow continued water flow in the fish ladder. He had communicated this to the WDFW, Squaxins and Ken Martig.
- Ken Martig's quote for the requested in/out flow analysis for Lake Limerick remains in work.
- The Program Manager position remains posted on Indeed.com. It will remain posted until the position is filled. Roger advised that other hiring apps pick up on Indeed's posts so LLCC does not need to advertise any further.
- Lake Advocates latest submittal re: Water Quality does address LD's request to summarize the findings with a stop light-type chart.
- LLCC has extended the contract with the company conducting LLCC's reserve study for an additional 3 years. To date, most of the updates have been done at the LLCC CAM/BOD level.

Lake Dam Committee Meeting Minutes 3 December 2022

Going forward, it is expected LD (as well as the other Committees) will have a participant on the team to help validate the estimates.

- Access to Anglia Park will be updated with a coded key pad for entry. It is understood that this is an interim solution until such time as a POS-type key card system can be adopted through our entire community.
- Removal of non-native / invasive plants along LLCC's park beaches will begin after all the weir boards are removed from Lake Limerick. Duane will compile a set of relevant regulatory documents related to shoreline vegetation removal, etc. and provide it to the Committee for reference.
- LD's budget (attached as Actual to Budget Lake Dame Oct 2022) is \$4K over based on the fees associated with Lake Advocates water quality reporting.
- LD requested Roger question Lake Advocates Statement of Work for their recent \$18K proposal for a bathymetric survey of Lake Limerick as it was LD's understanding the cost would only be slightly higher than the previously proposed price of 10K. Additionally, guest Rob Koenig advised it should be compared to the earlier surveys so we can compare the changes over time and the affect of the 2016 dredging.

Parks Report: Maureen/Steve

Maureen and Steve reviewed their parks report (attached as Nov Parks Maintenance Report dated 24 Nov 2022). Parks look great! Maureen reinforced her request to have the benches at Log Toy Park be secured so they don't become a safety issue. She also highlighted the abundance of goose poop at the Inn Island. Joel requested Roger ensure Maintenance does not blow the poop into the lake as a way to clean it off the grass.

Docks/Floats Permits: Teddy - No activity this reporting period.

Boat Registrations: Gary - No activity this reporting period.

LD Action Item List: Teddy

Teddy reviewed the attached Action Item List (attached as LD Action Item Status 30Nov2022). It was requested that the owners of each action item update the file to provide current due dates as most are currently recorded as TBD.

OLD BUSINESS:

Lake Leprechaun Clean Out Project: Steve/Maureen/Tim

No updates this reporting period. LD requested Roger to follow up with LA for a report ECD.

Park Host Status: Dave

Dave issued a first cut at the Park Host Process document to the team for review and comment. Comments will be incorporated and forwarded to the team for final approval during our next meeting.

Dock/Floats Compliance: Teddy - No updates this reporting period.

Lakes Long Term Health and Welfare: Brian

Brian briefed the team on the advances of his LTHW sub-team. His comments re: the team's last meeting are attached as Long Term Lakes Health Team.

While this sub team will not be addressing the height of Lake Limerick, it is acknowledged that lake levels contribute to the overall health of the lake. To that end, Joel volunteered to lead a sub team to recommend to the LD Committee, and ultimately the BOD, the target lake level.

Lake Dam Committee Meeting Minutes
3 December 2022

Long Term Vision for Parks / Restrooms: Dennis

Good progress has been made by the sub team to standardize the amenities at the parks. One additional meeting is expected to finalize the recommendation (steel doors, locks, locking scheme, roof and paint colors, heaters etc.) to the LD Committee with the expectation a motion be made to the BOD as part of the January meeting.

Lake Rules Changes Process: Dennis - Nothing to report this reporting period.

Lake Advocates Water Quality Report

Teddy made a motion to approve Lake Advocates Water Quality Report. Dave seconded it. Motion passed unanimously.

Lake Advocates Estimates . Reserve Study Inputs

Teddy made a motion to approve Lake Advocates Technical Memorandum (November update) used to support LD's Reserve Study input. Dave Seconded it. Motion passed with one abstention.

Video Conference Capability – No update this reporting period.

Network Drive for Committee Use -- No update this reporting period.

LD Projects – Teddy

- **Special Projects Manager – Roger**
Posting remains open, pending qualified candidates. LD recommended that LLCC look at local colleges, consider making the position part time, look at limnologist websites etc for candidates.
- **Cranberry Creek Retention Pond(s)** - No update
- **Cranberry Creek Sediment Survey**
Lake Advocates to perform. Expenditure requested via Motion 1 to the BOD, below.
- **Bird Sanctuary Weed Control**
On Long Term Lake Health sub committee's radar. Project held for PM position to be filled and updated estimates to be obtained.
- **Cranberry Creek / King's Cove Bathymetric Survey**
LD requested entire lake to be surveyed. See CAM report above.
Pat recommended LLCC develop a relationship with the Frank Foundation relative to Cranberry Lake / Cranberry Creek's impact on Lake Limerick. Teddy made a motion to have LLCC (CAM and BoD member) pursue a relationship with the Frank Foundation. Joel Seconded the motion. The motion passed unanimously. See Motion #2 below.
- **Inn Island Bridge/Culvert** - No update
- **Inn Island NE Section Repair**
Pat followed up with Hanson Excavating to discuss project and better understand their bid from the 2017 timeframe. Hanson has yet to return his inquiries. No updates expected until 1Q23.
- **Banbury Bathroom Upgrade**
Held for Long Term Vision of Parks / Restroom Sub Team feedback to the Committee.
- **Park Bathroom Door / Cypher Lock**
Dennis, Pat, Duane and Roger are looking into different options to control access to the parks bathrooms.
- **Leprechaun Dredging**
Ted requested Roger follow up with Lake Advocates to assess and recommend the type of dredge, locations and cost estimates based on their last survey in October.

Lake Dam Committee Meeting Minutes
3 December 2022

NEW BUSINESS

Adopt-a-Park – Joel

Joel proposed the idea of mimicking the Green's Committee initiative of formalizing a group of volunteers to help with special projects associated with LLCC's lakes and parks and have LLCC members (don't have to be LD Committee members) monitor the parks on a regular basis. Jarred agreed to put together a framework to roll out this type of program.

LD Membership Update –

Hannah and Erik Landsverk were added to the LD Committee.

Other Topics –

John Ingemi will reach out to the Powter Family re: how they might like LLCC to recognize Dorothy for the many years of volunteering she provided to LLCC. Lou will coordinate with the Inn Committee as to what we may recommend recognizing Dorothy, as she was on the Inn Committee for many years as well.

Guest Input - None

Review of Commitments & Action Items:

Action items were reviewed and new action items from today's meeting will be added to the spreadsheet by Teddy and attached to these meeting minutes as LD Action Item Status 3Dec2022.

Review of Motions to the Board: See Below

Motion to Adjourn:

Meeting was adjourned at 11:45AM

Next Meeting – Saturday, 7 January 9:30AM via Zoom

Look Ahead:

Dec 17 Board of Directors Meeting

Jan 7 Lake Dam Committee Meeting

Jan 21 Board of Directors Meeting

Feb 4 Lake Dam Committee Meeting

Feb 18 Board of Directors Meeting

Motions to the Board

Motion #1

LD Committee requests the BOD authorize funding for Lake Advocates to conduct a Cranberry Creek walk in early July 2023 to assess inflow of soft sediment and its impact to Lake Limerick. Funding not-to-exceed \$14K per LD's FY2022-23 Budget. Lake Advocates latest estimate contained in their November 2022 Lakes Report update is \$12.7K.

Motion #2

LD recommends LLCC CAM and at least one BOD representative develop a relationship with the Frank Foundation relative to Cranberry Lake / Cranberry Creek's impact on Lake Limerick. A positive relationship between LLCC and Frank Foundation will help with developing and executing projects (e.g. potential dredging, maintaining the current retention pond and retention structure, etc.) that are needed to sustain the life of Lake Limerick.

LD CAM Report

January 7, 2023

Parks

- Completed removing trees that fell into Lake Leprechaun and alders in the park
- Plan to remove parks shoreline swim area vegetation when lake level drops. Facilities will have the support of the Greens crew.
- See attached Anglia gate PAR for review/approval

Dams

- Weir boards removed for the season
- Ken Martig provided a proposal to measure Leprechaun and Cranberry in/out flow and Limerick outflow for drawdown calculations compared with the butterfly valve 24 inch pipe
 1. Proposal forwarded to the DSO engineer for concurrence

Lakes

Buoy replacement plan

- 15 per year @\$120/unit = \$1800; R&M budgeted
- 3-4 year project replacing 55 buoys

Water testing plan

- To resume in April

Data level loggers

- See attached December reports

Lake Advocates

- Requested scope of work, cost, and confirmed schedule for 2 capital projects
 1. Cranberry Creek soft sediment assessment for a June stream walk including the Cranberry lakeside Stormwater Detention Structure (SWDS). Quoted Nov 15 (w/o SWDS) \$12,700.
 2. Bathymetric survey April/May for entire Lake Limerick including Cranberry inlet and King's Cove and compare with the 2015 Limerick bathymetric report. Quoted Nov 15 (w/o comparing to 2015 survey) \$18,000.

Additionally requested a report on the results of the Lake Leprechaun core sample work in 2022. Report to address dredging scope of work including locations, mechanical vs hydraulic, permit requirements, and cost estimate

PM position

- Posted on Indeed

Lake Limerick
BUDGET TO ACTUAL
Month Ended Nov 30, 2022

Variance	Lake Dam HOA Budget	Lake Dam HOA Actual		Lake Dam HOA Actual	Lake Dam HOA Budget	Variance	Lake Dam HOA Budget	17%
Revenue								
0	0	0	Total Revenue	0	0	0	0	
Cost of Goods Sold								
0	0	0	Total Cost of Goods Sold	0	0	0	0	
0	0	0	Gross Profit	0	0	0	0	
Operating Expenses								
\$ 343	\$ 773	\$ 1,116	Insurance Expense	\$ 2,231	\$ 1,544	\$ 687	\$ 9,674	23%
(1,992)	2,000	8	Lake Expense	7,308	4,500	2,808	83,600	9%
0	0	695	Licenses and Permits	695	0	695	3,700	19%
0	0	0	Parks Expense	124	0	124	12,550	1%
(950)	950	0	Repairs and Maintenance	0	1,900	(1,900)	16,800	0%
(100)	100	0	Small Tools and Equipment	0	200	(200)	1,200	0%
(100)	100	0	Supplies	0	200	(200)	1,200	0%
(2,104)	3,923	1,819	Total Operating Expenses	10,358	8,344	2,014	128,724	8%
2,104	(3,923)	(1,819)	Operating Income (Loss)	(10,358)	(8,344)	(2,014)	(128,724)	8%
Other Income								
2,104	(3,923)	(1,819)	Income (Loss) Before Income Taxes	(10,358)	(8,344)	(2,014)	(128,724)	8%
0			Income Tax			0		
2,104	(3,923)	(1,819)	Net Income (Loss)	(10,358)	(8,344)	(2,014)	(128,724)	

PARK MAINTENANCE MONTHLY REPORT

DATE

Dec 28 2022

Wednesday

		YES/NO	Needs Attention
ANGLIA BEACH			
Garbage can(s) empty? (They are emptied Mon & Fri)	1/4 full	Yes	
Dog Station has poop bags available?		Yes	
Litter picked up?		Yes	
Restroom is cleaned and stocked? (Done Mon & Fri May1-Oct 31)		Locked	
Lawn mowed recently?		N/A	
Ground debris cleaned up?		No	X
All debris removed from spillway?		Yes	
Safety floats are above the water at the spillway?		Yes	
Notes:			
BANBURY PARK			
Garbage can(s) empty? (They are emptied Mon & Fri)	1/2 full		X
Dog Station has poop bags available?		Yes	
Litter picked up?		Yes	
Restroom is cleaned and stocked? (Done Mon & Fri May1-Oct 31)		Locked	
Lawn mowed recently?		N/A	
Ground debris cleaned up?		No	X
Notes:			
CLUBHOUSE/INN			
Garbage can(s) empty? (They are emptied Mon & Fri)	1/4 full	No	X
Dog Station has poop bags available?		No	X
Litter picked up?		Yes	
Lawn mowed recently?		N/A	
Ground debris cleaned up?		No	X
Are pathways swept?		Yes	
Is the roof free of debris?		No	X
Notes:			

		Needs
LEPRECHAUN PARK	YES/NO	Attention
Garbage can(s) empty? (They are emptied Mon & Fri)	Yes	
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Lawn mowed recently?	N/A	
Ground debris cleaned up?	No	X
Debris removed from spillway?	Yes	
Notes:		
several small Alder trees fell		X
★ All cleaned up 1/3/23 !!		
LOG TOY PARK	YES/NO	
Garbage can(s) empty? (They are emptied Mon & Fri)	Yes	
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Restroom is clean and stocked? (Done Mon and Fri May 1-Oct 31)	Locked	
Lawn mowed recently?	N/A	
Ground debris cleaned up?	No	X
Notes:		
Goose poop on grass		X
OLD LYME PARK	YES/NO	
Garbage can(s) empty? (They are emptied Mon & Fri) 1/4 full		X
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Restroom is clean and stocked? (Done Mon and Fri May 1-Oct 31)	Locked	
Lawn mowed recently?	N/A	
Ground debris cleaned up?	No	X
Notes:		
WAY TO TIPPERARY	YES/NO	
Garbage can(s) empty? (They are emptied Mon & Fri) totally full	No	X
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Restroom is clean and stocked? (Done Mon and Fri May 1-Oct 31)	Locked	
Lawn mowed recently?	N/A	
Ground debris cleaned up?	No	X
Notes:		

Lake/Dam Committee Action Item Status

As of: 7January2023

Commitments & Action Items	Date Assigned	Assigned To	Due Date	ECD / Status
Document Park Host Recruiting/Selection Process	7-May-22	Dave	Jan2023 LD Mtg	27Nov2022 Draft sent to LD members for review/comment; rcvd comments incorp'd; final Draft sent out 12/31 for January LD Mtg
Request Lake Advocates Ken Martig to perform inflow/outflow analysis of both Lakes & Cranberry Creek	9/1/2022 Revised 11/2022	Roger	October LD Mtg	Revised the Action item to include both lakes and Cranberry Creek and assigned to Ken Martig
Re-examine Lake Rules to ensure all safety, use, etc. requirements are clear for e-hydrofoil boards on Lake Limerick.	1-Sep-22	Dennis	TBD	Action resulted from discussion of concerns raised during Sept 1st mtg. Need to establish change process. 5Jan2023 change process (Draft) sent to LD Committee for review/comment. 7Jan2023 Dave to coordinate with Dennis regarding existing processes for LLCC rules changes and coordination with the community that would eliminate the need for an additional process developed by LD.
Inn Island Repair options/contractor quotes need to be assessed for feasibility	1-Sep-22	Pat	TBD	Pat will review the current contractor quotes and options; and provide his assessment to LD. Pat completed his review and recommended the shoreline be repaired with the granite block option. Hanson Excavating has not returned Pat's calls regarding their estimate - ECD for project update 1st Qtr 2023

Lake/Dam Committee Action Item Status

As of: 7January2023

Commitments & Action Items	Date Assigned	Assigned To	Due Date	ECD / Status
Need to identify a Dam/Lake engineer to replace Ken Martig. Duane to check with his contacts at Tacoma Power for recommendations.	1-Sep-22	Duane	TBD	Ken is semi-retired, need succession plan; Ken has no recommendations. Duanne to re-engage with his professional contacts. 7Jan2023 Recommendations rcvd were not located in the area (corporate focused and expensive); need to find a replacement located regionally.
Park Signage to be revised to remove reference to Guests access to Lakes. Will also look at updates to the WDFW signage.	5-Nov-22	Dennis	TBD	Dennis to get with sign maker re: feasibility of changes. Working with WDFW remains in work.
Duanne will compile a set of relevant regulatory documents related to shoreline vegetation removal, etc. and provide it to the Committee for reference	3-Dec-22	Duane	TBD	
Jarred to put together an "Adopt a Park" volunteer group (similar to Greens Committee) to help with special projects associated with LLCC's lakes and parks and have LLCC members monitor the parks on a regular basis.	3-Dec-22	Jarred	TBD	Discussions with potential volunteers on-going. Jarred will coordinate with Mark Hendricks on framework of the Greens Committee Ambassador Program so there is continuity between committees and members wanting to volunteer
Dorothy Powter memorial. Lou will work coordinate with the Inn Committee as to what we may recommend recognizing Dorothy, as she was on the Inn Committee for many years as well	3-Dec-22	Lou	TBD	7Jan2023 John Ingemi advised that Dorothy Powter's Family agreed to defer to LLCC as to how the community would like to recognize Dorothy for her many years of support to LLCC. Lou wasn't able to engage with Inn Committee; will contact Paul Wagner. Recommendation: LLCC develop one memorial to recognize all members that have gone before us.

Lake/Dam Committee Action Item Status

As of: 7January2023

Commitments & Action Items	Date Assigned	Assigned To	Due Date	ECD / Status
Request Lake Advocates to provide Report on the results of the Lake Leprechaun Survey. Report to address Dredging recommendations including locations, mechanical vs hydraulic, permit requirements, cost estimate, etc.	3-Dec-22	Roger	TBD	
Provide a template for Book of Standards; exterior/interior materials, finishes, colors, etc.	7-Jan-23	Duane	TBD	Template format preference is MS-Excel. LLCC Office personnel will develop the Book of Standards for LLCC facilities.
Roger to purchase hats and vests for Park Hosts; embrodered with LLCC Park Host logo. Supplements use of existing Lanyards.	7-Jan-23	Roger	TBD	Hats and vests to be worn by Park Hosts while on duty and/or while engaging with park users; re-inforces identity, purpose and visability
Establish Lake Limerick/Leprechaun Shoreline Plan for LD and Compliance Committees to use as an audit tool in order to begin reigning in the many violations observed (but not often reported) by members.	7-Jan-23	Maureen	TBD	Steve and Duane volunteered to assist.
Perform Shorline audit in Spring 2023 for non-compliances; non-permitted boat lifts/docks/floats, unauthorized intrusions/constructions, e.g. beach retaining walls, fences, etc.	7-Jan-23	Lake-Dam	TBD	Placeholder for Spring/Summer LD Committee activity. Volunteers will be needed.

Lake Limerick Country Club
Park Host Coordinator Job Aid

1. Background

Lake Limerick Country Club has a Park Host program for four of the Club's wonderful lakeside beach parks. Park Hosts are needed from May 15 until Sept. 15 (with an extension possible until Nov. 15). Expected hours are Friday through Sunday and Holidays, from midday until dusk. Compensation includes a space in a lovely, wooded setting with power, water, septic, and local phone service provided if desired (phone service provided as a stipend). Access to other club amenities includes the tennis/pickleball courts, golf course and restaurants.

2. Reference Information

LLCC Website page:

<https://lakelimerick.com/parkhost/>

Park Host Duties:

<https://lakelimerick.com/wp-content/uploads/2017/12/ParkHostDuties-072020.pdf>

Park Host Application:

<https://lakelimerick.com/wp-content/uploads/StaticDocuments/ParkHostApplication.pdf>

3. Host Recruiting

Time frame:

Park hosts that are seasonal in nature have historically been volunteers that have winter-overed in southern climates (Arizona for example) or from other places in the south that have desired to travel to the Pacific Northwest to spend their summers in a more temperate climate such as ours. These volunteer park hosts tend to research and schedule their summer activities over the fall and early winter, with many of them firming up their plans over the first quarter of the year. As a result, the Park Host Coordinator would focus advertising in the fall and early winter and interview and offer positions in the first quarter, at the latest.

Advertisement verbiage:

We have historically advertised in the Workamper magazine. Other websites have been used as well (Facebook and LLCC's website).

This is the advertisement used in the Workamper magazine (limited word count):

PARK HOSTS WANTED for four wonderful lakeside beach areas at a private club in rural Mason County, WA, just 30 miles west and north of Olympia. Hosts are needed from May 15 until Sept. 15. Compensation includes space in a lovely, wooded setting with power, water, septic, and local phone service available. Access to other club amenities includes the tennis courts, golf course, and restaurants. Expected hours are Friday through Sunday and holidays, from midday

until dusk. For further info on host duties and an application form, see the Lake Limerick Country Club website: <http://lakelimerick.com/parkhost> or send email to the attention of the Lake/Dam Committee at: mail@lakelimerick.com

This is the advertisement used in local LLCC references (Facebook, etc.)

LLCC had several of our parks staffed with Park Hosts last summer. We really appreciated the hosts' support in providing some much-needed guidance to members and guests. At this time, we are anticipating the need for additional park hosts, so if you know anyone who may have interest, please reach out to the office. Park Hosts are needed from May 15 until Sept. 15 (with an extension possible until Nov. 15). Our hosts are on duty from mid-day to dusk on Fridays, Saturday and Sundays and are there to ensure park visitors follow the rules. Benefits includes space in a lovely, wooded setting with power, water, septic, and local phone service available. Access to other club amenities includes the tennis/pickleball courts, golf course, and restaurants. For further information on host duties and an application form, see the Lake Limerick Country Club website: <http://lakelimerick.com/parkhost> or send email to the attention of the Lake/Dam Committee at: mail@lakelimerick.com

4. Park Host Interviewing and Selection

After reviewing a candidate's application, it is necessary for the park host coordinator to conduct an interview to validate and determine a candidate's background, skills, qualifications, and general fit for a position. As the LLCC Park Host assignment can be different than more traditional host assignments in state parks or private campgrounds (KOA, etc.) it is important to assess the candidate's comfort and abilities to deal with a variety of age groups (children, teenagers as well as adults) and the different setting associated with our parks (community residential park instead of a campground). An interview outline is provided as an attachment.

Once a candidate is interviewed and a fit seems appropriate, candidate information is shared with the Lake Dam Committee and the Community Association Manager (CAM) with a recommendation to proceed. The Committee would formalize their recommendation with a motion to the Board of Directors, subject to CAM approval. The CAM reviews the candidate, requests a standard Washington State background check, and they may follow-up with questions of their own if needed or desired. The CAM would inform the Board of their support or not, prior to action at the Board meeting on the Committee's motion.

5. Park Host Onboarding

Onboarding is coordinated by the CAM and includes ensuring the site is ready (power and water on) and providing a host information packet and introduction to Lake Limerick. The Office Manager maintains a Park Host reference information folder.

6. Park Host Follow-up and Debrief

In addition to the occasional check-in throughout the season with the Hosts to see how things are going, the Community Association Manager, and other staff along with the Park Host Coordinator (if available) will have an end of season debrief. The debrief serves several purposes: It will solicit feedback from the Hosts regarding member issues, review member feedback about the Hosts and determine if the Club is interested in inviting the Host back. Of course, the Club needs to assess if the Host is interested in returning the following year.

7. Park Locations

There are four (4) parks with Park Host facilities

Anglia Beach Park

Div 1 - Lot 66

113 E Ballantrae Dr, Shelton, WA 98584

Banbury Park

Div 1 - Lot 31

531 E Ballantrae Dr, Shelton, WA 98584

Log Toy Park

Div 3 - Lot 510

90 E Tregaron Ct, Shelton, WA 98584

Way to Tipperary Park

Div 3 - Lot 507

230 E Way To Tipperary, Shelton, WA 98584

Attachment - LLCC Park Host Interview Outline

Why are they interested in being a host, have they done it before?

Other work experience (and relevance to Park Host position – education field, etc.)?

Where have they lived, in the Pacific Northwest or elsewhere (checking familiarity with the weather)?
Do they have a long trip to get here and what are their plans for arriving in the area?

Ask about activities, especially with children (did they do any, teaching, sports/coaching, 4-H, scouting, etc.)? Be listening to determine if they have had children and follow up on any activities they may have done.

Are the candidates comfortable interacting with teenagers? Share examples of dealing with teenagers in our parks and how to request behavior changes, especially in mixed group settings (noise, alcohol, etc.).

Set expectation and discuss our Parks, they are in a residential area, and are day parks without overnight camping, so not like typical RV campgrounds. Also, our host pads are wooded (they are under a tree canopy). Each park is a little different, some have play equipment, beaches, docks, boat ramps, etc. Share a picture if needed. Some pads support travel trailers best, while all accommodate RVs just fine (depending on length).

Minutes

Long Term Lakes Health Team

Jan 3, 2023 Meeting—10 AM

Crows' Nest

Meeting notice placed on Association Calendar

Present: Teddy Lovgren, Joel Gray, Dennis Muretta, Brian Smith (team Lead)

Absent: Pat Paradise, John McRoberts

Excused: Tim Reber

The meeting focused on continuing to develop a long term action framework for protecting and enhancing Lakes Limerick and Leprechaun to improve recreational opportunities and prevent deterioration of the Lakes' habitat. Funded and proposed projects were aligned with the Goals, Objectives and Actions they are intended to support.

Draft framework follows:

DRAFT

GOAL: 1. Protect and improve water quality in Lakes Limerick and Leprechaun to maintain them in a “mesotrophic” state without excessive plant or algae growth.

OBJECTIVE	ACTION	PROJECTS	FUNDING STATUS
1.1. Lake water concentrations of plant and algal growth nutrients are maintained as follows: Total Phosphorous (TP) $\geq 0.01\text{mg/L} - 0.03 \text{ mg/L}$; Soluble Reactive Phosphorous (SRP) TBD; Total Nitrogen (TN) $\leq 0.86 \text{ mg/L}$; Dissolved Oxygen (DO) Concern threshold TBD.	1.1.1. Surface, water column and bottom water sampling for TP, SRP, TN and Dissolved Oxygen (DO) (indicator of plant material decay which can release P stimulating algae growth). Sampling sites should represent typical areas of the lakes, and the inlets and outflows.	1.1.1.1. LLCC staff collect water samples regularly, which are sent to IDH labs for processing, and Lake Advocates for analysis and reporting.	
	1.1.2. Establish a data analysis and storage/archive framework allowing easy data entry and retrieval, analysis and safe storage over time. (Seek LA advice and recommendations)		
	1.1.3. Establish a data steward responsible for timely data entry; reporting of key indicators to the Lake Dam Committee and the LLCC community; QA/QC of data collection and storage.		
	1.1.4. Based on results of investigations and sampling/surveys, begin to develop alternative project plans including preliminary estimates and schedules for nutrient removal either from lakes or tributaries. Coordinate with LLCC BOD efforts to refine its Reserve Account funding and expenditure plans.	1.1.4.1. Need to set up a project to research what other developments and HOAs with lakes are doing to control nutrients.	
1.2. Reduce the input of sediments to Lakes Limerick and	1.2.1. Identify sources and input rates of sediments by investigating inlets and upstream	1.2.1.1. Cranberry Creek soft sediment assessment	\$14,000

Leprechaun because sediments can negatively impact habitat values including fish spawning areas; contribute nutrients for plant and algal growth; and impact recreational uses and aesthetics.	stream/lake areas, particularly during times of maximum transport.	including stream walk –FY 2023 [consider modifying to include sedimentation assessment of Cranberry Lake stormwater control structure]	
	1.2.2. Record lake levels regularly to provide base data for other analyses (e.g. bathymetric surveys to monitor sedimentation)	1.2.2.1. LLCC staff monitor, record, log and archive lake levels via automated level loggers on a regular basis	
	1.2.3. Conduct periodic bathymetric surveys of the lake to determine magnitude and impact of sedimentation over time and identify “hot spots” that may require special actions such as dredging or upstream sediment removal.	1.2.3.1. Cranberry King's Cove bathymetric surveys measuring dredge depth – FY2023 [being modified to include bathymetric survey of entire lake]	\$10,000
	1.2.4. Based on results of investigations and sampling/surveys, begin to develop alternative project plans including preliminary estimates and schedules for sediment removal either from lakes or tributaries. Coordinate with LLCC BOD efforts to refine its Reserve Account funding and expenditure plans.	1.2.4.1. Need to set up a project to research what other developments and HOAs with lakes are doing to control nutrients.	
1.3 Reduce the exogenous contribution of nutrients such as those from landscape fertilizers and septic system effluent entering the lakes via groundwater and surface runoff.	1.3.1. Ensure the LLCC golf course continues to use low P fertilizers which can enter the lake via irrigation and stormwater runoff.		
	1.3.2. Conduct multi-pronged member education campaign regarding septic tank maintenance, landscaping fertilizers, etc.	1.3.2.1. Develop a multiyear plan to include information on fertilizers and septic system maintenance in	

		<p>newsletters, mailed bills, semi-annual community meeting agendas, etc. including developing a list of low P fertilizers.</p> <p>1.3.2.2. Develop multiyear plan to encourage removal of vegetation /landscaping which may require fertilizers from within 20 feet of lake shores and streambanks.</p>	
	1.3.3. Continue efforts with USFWS to reduce resident and migratory Canada Goose populations.		
1.4. Remove excess sediments when interfering with recreational use or longevity of the lakes.	1.4.1 Based on data collection and analysis, develop projects/capability to dredge identified problem areas.	1.4.1.1. Implement projects 270, 272, 274 of the Reserve Study as needed.	
1.5. Remove invasive and excess plant growth	1.5.1. Develop a routine aquatic plant maintenance and treatment plan.	<p>1.5.1.1. Conduct annual Spring survey to identify location and nature of necessary plant treatments</p> <p>1.5.1.2. Conduct annual aquatic plant treatments at indicated locations,</p>	

GOAL: 2. For both Lakes Limerick and Leprechaun determine an appropriate lake level target balancing numerous factors such as recreational and irrigation needs, maintaining adequate flow in the fish ladder and spillway, beach maintenance, members property use and riparian tree health.

OBJECTIVE	ACTION	PROJECTs	FUNDING STATUS
2.1. Maintain optimum lake level heights in recreational and non-recreational seasons.	2.1.1. Continuously monitor lake levels throughout the year as a basis for analysis of possible actions regarding lake levels.	2.1.1.1. See 1.2.2.1.	
	2.1.2. At selected locations, monitor edge of pool locations over time and correlate to measured lake levels.	2.1.2.1 Develop an edge of lake monitoring plan which includes lake levels, edge of shoreline and weir board status.	
	2.1.3. Test reducing the effective weir board height by alternative amounts and monitor impacts on lake levels, coverage and member reaction.	2.1.3.1 Develop and implement a test plan.	

PROCESS FOR DEVELOPING/APPROVING CHANGES TO L/D PROCESS DOCUMENTS

1.0 OVERVIEW

The Lake/Dam (L/D) committee has responsibility for developing and maintaining a number of LLCC process documents which define rules for usage and management of community lakes, parks and other common properties. Occasionally, updates to the processes defined in these documents are necessitated by changes to overarching state or county rules or general experiences and shortcomings encountered during member usage of LLCC lakes and parks. The purpose of this document is to standardize a process for developing and coordinating process document revisions to assure that effective coordination with community members is accomplished prior to change approval and implementation.

2.0 APPLICABLE L/D PROCESS DOCUMENTS

The following is a listing of key L/D process documents addressed by this process.

1. Lake Rules and Safety Guidelines
2. Park Rules and Safety Guidelines
3. Dock and Float Guidelines
4. Guest Pass Guidelines
5. Lake Patrol Guidelines

3.0 CHANGE PROCESS FOR L/D DOCUMENTS

As previously mentioned, process document changes can be necessitated by revisions to overarching state or county rules and regulations, issues or problems encountered during seasonal lake and park usage or general need for rule clarification. The L/D Rules Subcommittee shall be responsible for developing and coordinating all document changes. The following steps shall be used to develop, coordinate and approve document changes.

1. Step One: Develop a Statement of Work (SOW) for the proposed document change including general description of the specific changes planned (see example in attachment 1).

2. Step Two: Review the document change SOW with the entire L/D committee for concurrence. Update SOW as required based on committee discussion.

3. Step Three: Develop a draft update to the process document which incorporates proposed changes.

4. Step Four: Review the draft document with entire L/D committee for concurrence. Incorporate any committee comments in final document draft. This may require several iterations.

5. Step Five: Once L/D committee concurrence has been achieved, post the final document on the LLCC website to facilitate community review, awareness and specific input on content (see Section 4).

Document changes should be annotated prior to posting with one of the following two designations;

Category One - Mandatory Process Change; Document changes that are deemed necessary to

comply with state or county rule or process changes or critical safety issues. Members may comment on changes but document content may not be revised to include member comments.

Category Two - Discretionary Process Change; Document changes that are deemed necessary to correct deficiencies in rules, strengthen safety controls and guidelines or address emerging technologies. Member comments will be considered and, pending committee review, potentially incorporated into final process document.

Step Six: Based on inputs received from member review, update the draft document and then review it with the entire L/D committee for final approval. Incorporate any agreed upon changes from committee review.

Step Seven: Forward the final document via motion to the BOD recommending the document be approved and posted on the LLCC website as replacement for existing document.

4.0 NOTIFICATION & COORDINATION OF PROCESS CHANGES WITH LLCC MEMBERSHIP

As described in Section 3, all Document changes will be made available for member review and comment prior to final document approval and release. This will be accomplished by posting the revised document on the LLCC website and notifying members of its availability for review. Mandatory changes will include an explanation as to the regulatory, health and/or safety rational for the change.

Discretionary changes will request member feedback prior to process change approval and release. In addition to on-line posting, member coordination may include: 1) member questionnaires and/or mailers 2) member electronic surveys (survey monkey or other) or town halls. Use of these alternate coordination methods will be dependent on the nature of the proposed changes. The goal will be to assure member awareness of proposed changes and maximize member feedback.

Full Reserve Study Questions for Lake Advocates

Preface: The care and maintenance of our lakes is a very complex issue. Reading your past reports, attending your December zoom meeting with the Lake Dam Committee and attending the field trip to Cranberry Lake earlier this summer has definitely helped to develop a better understanding.

The LLCC BOD is looking at a 30 year Reserve Study attempting to approximate the costs of significant expenditures (not normal operational expenses) that will be needed to maintain all of our assets. Presently we are looking specifically at Lake Limerick, Lake Leprechaun and the Bird Sanctuary. Costs such as annual aquatic plant survey, aquatic herbicide treatment, water quality monitoring, geese mitigation, etc. are considered normal operational expense costs and therefore not in the purview of the Reserve Study.

In the past the significant expenditures regarding our two lakes have been primarily costs associated with dredging. While future alternatives are being discussed and investigated these questions are focused on helping us better understand future costs associated with what we have been doing up to this point, basically dredging. We appreciate your assistance in helping us establish a more informed Reserve Study estimate of long term (30 year) frequencies and significant expense costs for our lakes.

BOD QUESTIONS FOR LAKE ADVOCATES

1. The Reserve Study done for Lake Limerick by Association Reserves in 2021, was done with input from committee members which included members of the Lake Dam Committee. It showed a 5-year useful dredging life for Limerick (#270), Leprechaun (#272) and Sanctuary (#274) at \$780,000 (\$4,680,00 for 30 years). The update recently done by Association Reserves uses extrapolated data from your (Lake Advocates) June 26, 2022 report with figures (using a three quarter mark of your spread) showing a useful life of 10 years with a cost of \$6,250,000 (\$18,750,000 for 30 years). Question - not considering other actions (such as possible sedimentation pond development) does the \$18,750,000 seem to be a reasonable reserve estimate for anticipated dredging needs for Lake Limerick, Lake Leprechaun and the Bird Sanctuary? Is it reasonable to believe that this 10 year frequency and cost of dredging for 30 years will maintain our two lakes?

<p>LA Response: Yes, estimated costs for the 10-year dredging interval is correct. Note site-specific dredging of portions of Lake Limerick will be periodically needed to maintain its long-term beneficial uses, aquatic habitat, water quality, recreation, prevention of over production by algae (toxic algal blooms) and aquatic plants, overall aesthetics, and property values.</p>
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Maintenance of the Bird Sanctuary will be required including dredging and aquatic plant aggressive control for the same benefits listed above. The vulnerability of the bird sanctuary to rapid aquatic plant establishment has been documented with the annual aquatic plant surveys from 2017-present. Factors that promote this condition include shallow water depth, build-up of nutrients in sediment, and greater influence of groundwater sources to this portion of the lake.

Lake Leprechaun will need targeted areas dredged on an adaptive schedule based upon external sediment inputs and aquatic plant production of organic sediment. Targeted dredging is determined with an integrated analysis of data collected annually including aquatic plant appearance, effectiveness of herbicide application, and water quality data. Trends using these three lines of information are used to determine hot spots in both lakes that have rapidly deteriorating beneficial uses (aesthetics, boating, fishing).

2. Do we know if generally the creation/maintenance of sedimentation retention ponds have an effect for our type of lakes/reservoirs? We know that it does not completely eliminate the need for dredging . . . correct? Per your November, 2021 email response to Pat Paradise I believe you are saying our situation is very unique and although your firm has had significant experience in this area you outline a number of specific issues that need “ . . . to be addressed in the feasibility and pre-design phase before alternative characteristics of this facility can be developed or visualized.” This sounds very costly and time consuming. Can you give us an estimate of how much time and cost gets us to the point where we can make a reasonable cost/benefit evaluation of this alternative to our unique situation? Do you believe this work is worth the time and money it will take to get us to the point where we can make cost/benefit estimate comparisons to determine the best option for this 30 year period . . . comparing having sedimentation pond(s) with less dredging versus no sedimentation pond(s) with more dredging? With our two lake/reservoirs presently in “senior citizen” status and considering the distribution of funds necessary to care for all LLCC assets is it best to just stick with regularly scheduled dredging for the next 30 years. Your thoughts?

LA Response: Correct. A sedimentation pond only reduces the volume of sediment that is coming into the lake and adding to sediment, and this will reduce the frequency and intensity of periodic dredging. Hence, it will reduce the total cost of maintaining the lake.

Evaluation of the need for reduction in sedimentation of Cranberry Cove originating from Cranberry Creek needs to progress through several steps before making future a decision about an end-product like a sedimentation pond. The first step is to compare the contours of the lake bottom (bathymetry) using an updated map with the bathymetry collected in 2015. This will provide us a rough estimate for rate of in-filling of sediment into Cranberry Cove and extent into Lake Limerick.

The next step in this evaluation includes estimating costs for periodic management of Cranberry Cove by dredging versus the cost and maintenance of a sedimentation pond.

This is a component of a feasibility study. The information we collect from comparison of bathymetric surveys (2015-present) inform the estimated volume of sediment originating from Cranberry Creek. Cost of construction and maintenance of a sedimentation pond will be influenced by the volume of estimated sediment contributed to Cranberry Cove.

We are planning to conduct a bathymetric survey and the Cranberry Creek sediment survey in 2023. These two projects are necessary components for estimating the most beneficial and cost-effective approach in reducing sedimentation to Cranberry Cove and other portions of Lake Limerick. We are using a stepwise and least costly approach for a need for control of sediment from Cranberry Creek.

3. In the Lake Limerick Integrated Aquatic Plant Management Plan, September, 1996 Maribeth Gibbons reported that Washington State prefers Intergrated Approach Treatment options and listed . . . herbicide applications, mechanical dredging, sterile grass carp introduction, mechanical harvesting, hand removal and diver assisted suction dredging (in smaller areas). Is that still Washington's position?

LA Response: Yes, this is still the basic Washington Department of Ecology's position. However, bottom barriers were also included in Maribeth's and my 1996 IAPMP. Also, she and I co-authored the original IAVMP manuals for Washington, Oregon and USEPA in the mid 1990's. All these management plans support and promote an adaptive, integrated approach that would change over time based upon data (such as that we collect annually) and environmental conditions.

4. I have heard that the approximate "life" of a reservoir like ours is 100 years. Is that correct? If not, what is it?

LA Response: The "life" of a reservoir is defined as its ecological existence as an open water aquatic habitat with human beneficial uses. This is until it evolves into an open water wetland that then becomes a wetland and in time turns into dry land (with or without a stream running through it. On average, reservoirs exist for a time period of 50 (known) to 500 (estimated) years. To enhance relative understanding of the condition of a reservoir the relative "age" in human life cycle terms is 0 to 100 years, hence, the "life of a reservoir" compared to human cycle time framed. So, the calendar life for Lake Leprechaun is 60 to 120 years and its current human life cycle age is 70 to 80 years. Lake Limerick calendar life range is 100 to 200 years but without in-lake and watershed management its human life cycle age is currently 40 to 60 years. Note the Bird Sanctuary is currently 65- to 75-year-old in human terms.

5. You have informed us that our two lakes/reservoirs are senior citizens in human years (10/19 presentation, Limerick 60-70 and Leprechaun 70-80) and it seems

that Mother Nature is fighting us harder each year wanting to revert back. Using the latest Reserve Study projected frequency and costs of dredging Lake Limerick, Lake Leprechaun and Bird Sanctuary, what is your best approximation of how many years of life are left for each lake/reservoir? Again, just based on the frequency and cost figures used in your June, 2022 report and not considering frequencies and costs that would be more often and more expensive.

LA Response: If both lakes were managed aggressively as outlined for the next 30 years both lakes would reduce their current “human age” by 5 to 15%. That means they would improve in beneficial use conditions over the next 30 years and not age (e.g., in-filling with sediments and organics contributed from the watershed).

To be clear, action to control sedimentation and organic input to both lakes effectively slows the aging process. Over the 30-year period the lake aging process would be interrupted and continue to resemble lakes instead of wetlands.

6. Would limiting some of our uses, such as use of motorized boats on the lake, lengthen the life and reduce costs and if so by how much?

LA Response: Studies have shown that motorized boats that can exceed 10 mph will mix the water column to a depth of 15 to 20 feet. This can accelerate the release of nutrients and organics from the sediment to the water column resulting in an increase in organic production of plants and algae. Hence, speeding up the lake’s eutrophication process...aging faster. Also, motorized boats will directly increase the spread and density of non-native and some native plants by fragmentation of plant stems. Hence, Lake Leprechaun is at greater risk of aging than Lake Limerick, but Lake Limerick is becoming shallower due to high-speed boat activity causing water mixing and weed fragmentation.

The proposed bathymetric survey and comparison with the 2015 survey will help determine areas and rate of in-filling of the bottom in each lake. Re-suspension of sediments results in re-distribution depending on prevailing winds or mild current in each of the lakes.

7. Recently I heard L/D members discussing what the right level of the lake should be. Some have said that the lake is 6 inches higher than historic levels which is a major factor in beach erosion. Is that true? Being a reservoir is there such a thing as a natural level?

LA Response: Change in lake level, i.e. increase, will have an impact on the lake shoreline. That impact will depend on several factors that can increase beach erosion. For example, the following factors may lead to beach erosion: the size of the sediment and shoreline matrix, sand versus small to larger stones, larger vegetation root matrix within the shoreline versus grass, wave velocity hitting shoreline versus wave energy reduction by floating barriers, shallow ground water interflow that reduces the soil density of the shoreline.

Stable high water level in a reservoir during the spring, summer and fall plant growth period results in less erosion of the shoreline.

8. Many L/D members when asked if the concentrations of plant/algae growth at certain locations on the lake are related primarily to septic and lawn fertilizers used for homes on the lake say no that those mapped concentrations are located at the multiple creek entrances where there is runoff from the entire community and beyond. Is that true? If so, what is your best guestimate of what the percentage is from LLCC homes away from the lake? Besides Cranberry Creek and Kings Cove, are there flow concerns from other areas such as from the Mason Lake direction?

LA Response: Yes and No. External watershed input in the lakes is part of the over-fertilization of the lakes (aging through over production of organic, aquatic plants and algae). However, the input of nitrogen and phosphorus from landscape practices and shallow groundwater (interflow) migration that can be “flushing” septic drainfields into the lake is an on-going and increasing potential issue that has been observed and an increasing factor over the past three decades. To control these inputs, a nutrient loading analysis is the best overall next step to define the most cost-effective approach to addressing this issue. However, at little cost relative to effective impact, community education of landscape practices that increase nutrient retention while also increasing the shoreline physical stability as is an important first step. A second step is to educate and promote basic septic system maintenance including planting septic drainfield vegetation.

Homes next to the lakes are greater contributors of nutrients than those further away. The further homes from the lake can reverse, partially, any progress made in reducing nutrient input from homes next to the lake. A concerted effort is necessary to see real and lasting results for nutrient input.

9. Status of Lake Leprechaun. Believe you reported that the weed/plant problem is being well taken care of and that the latest core samples indicate no need for dredging. Is that understanding correct?

LA Response: There appears to be no need for massive lake wide dredging but dredging in some areas where external loading of sand and sediment has filled in shallow areas would benefit from dredging. This dredging would return select areas to open water lake versus continued filling in and progressing toward wetland habitat. For example, areas that could use attention include the bay at inlet park and the small inlet around the lake’s island that is slowly filling in with fine sediment.

10. Have we determined whether the lakes are better, worse or the same since the 2016 dredging? If not, how soon will that information be available?

LA Response: Cranberry Cove has received a significant amount of sediment from inflow of Cranberry Creek. However, the aquatic plant management has reduced the organic sediment build-up, so this Cove is still in better condition than before dredging. Kings Cove has not been as impacted by external sediment to the same degree as Cranberry Cove, but organic generation from plants is still adding to the sediment buildup. Kings Cove is in better general condition than pre-dredging conditions, however, aggressive plant control is a continued need in Kings Cove.

We will know about rate of sediment in-filling in each of the coves once bathymetric survey maps are compared between 2015 to present. We will determine lake levels between the periods when bathymetric surveys were completed in order to standardize depth measurements.

11. Some feedback recently received from L/D states that the dredging of Lake Leprechaun and the Bird Sanctuary is “critical”. Is that true?

LA Response: Yes. The Bird Sanctuary has a diverse aquatic habitat with an island that resembles a wetland. This area is moving rapidly toward being wetland habitat. The loss of open water in this area of Lake Limerick will reduce desirable aquatic habitat and diminish property values for that area. Also, as this area of Lake Limerick continues to age by advancing toward a eutrophic state (high nutrient content) will be a source of nutrient contribution of Lake Limerick’s main basin.

PROJECT APPROVAL REQUEST

Anglia Security Gates

December 20, 2022

1. The person or Committee proposing the project:

Roger Milliman and LD Committee

2. The project's description/scope including:

- a. Narrative description of the project.

Secure access to Anglia park via the car gate and via the dam pedestrian gate entrances require modifications. The Anglia park car gate cannot be upgraded due to the technology is at capacity for issued access cards. The dam's pedestrian gate has power turned off leaving the gate open for unsecured access. Additionally the pedestrian gate adjacent to the car gate is unlocked enabling walker access.

Recommendation is to have contractor Southgate Fence install keypads using the same keycodes at the three locations – 1. Car gate entrance via a wireless keypad, 2. Car gate exit via a wireless keypad both at the Anglia Park and 3. Hard wired keypad at the dam pedestrian gate. Keypads located at 1 & 2 will be activated via a wireless control device installed in the car gate motor unit.

- b. The project's purpose and the value LLCC members will receive from the completed project, including any health and safety improvement aspects.
Purpose of the modifications is to provide improved park security for members and securing access to the dam.
- c. Drawings and sketches as necessary to understand the project.
NA
- d. The approximate cost for the project, and the basis and assumptions for that cost estimate.
NTE \$1500
- e. A recommendation as to whether the project should be delivered in-house with LLCC staff, use outside contractors or consultants, or be carried out by a combination of in-house and outside resources
Combination of Southgate Fence and staff
- f. An approximate schedule, including any time constraints regarding project activities or completion date.
One day installation will be Southgate scheduled and coordinated with Facilities.

3. The budget status of the project

- a. Has a Committee, and/or the Board, already included the project in the current year's budget?

Capital project originally approved for 2021 @\$6,000. This PAR is an interim low cost solution to improve access for Anglia Park and Limerick dam.

- b. Is it in a longer-range capital improvement plan? Is it a new idea outside the current year budget cycle?

Secure access for Limerick dam and park bathrooms require a long range master plan ideally with issued electronic cards. A master plan may also consider all building access including the Inn, Pro Shop Café, Shop, and golf course bathrooms at hole #5. Integration with a POS system should also be considered in stages.

4. Additional considerations the Board may need to consider, including any foreseeable project risks or liabilities.

- a. The risk of the Office only providing the keycode to members in good standing.

- b. Determining when to chain lock the adjacent pedestrian gate at the car gate.

5. Proposed project manager.

Roger Milliman and Norm Glasco

6. Evidence of coordination with the appropriate staff departments and management and the staff's recommendation.

Initial meeting held at Anglia Park with Teddy Lovgren and Dennis Muretta representing LD Committee (including contractor Southgate Fence) approving the interim plan.

Motion to the Board of Directors

The Lake/Dam committee requests that the BOD authorize the start of planning and budget expenditures for our 2023 fishing derby. A total of \$6,188 was budgeted for the derby and a total of \$1,400 was budgeted for the Lake Leprechaun fish plant (typically done in concurrence with the derby plant). The derby generally brings in revenue which offsets all derby expenditures.

The derby will be held on April 22th this year (fourth Sat. of April which coincides with opening day of lowland lake fishing). Authorization will allow the Derby committee to address long lead issues associated with derby planning including obtaining derby permits required by WDFW to both conduct a derby and to purchase and plant trout for the derby.

The derby format will be similar to our 2022 derby. Significant elements are:

- 1) Adult and Children's tickets at \$12 each
- 2) Fish Plant From Nisqually Fish Farm one week prior to derby
- 3) Ticket sales at the Pro Shop, DJ's Market (pending agreement with DJ's) and on-line (in-work)
- 4) Derby Prizes; 1st place @ \$100, 2nd place @ \$60, 3rd place @ \$40, 4th place @ \$20, 5th place @ \$10 for both adult and children's divisions.
- 5) Raffle Prize drawing at conclusion of awards pending community donations

Lake Dam Committee