

Lake Dam Committee Meeting Minutes  
July Meeting held 30 June 2022

Call to Order

Roll Call Committee Members: (P)=Present; (A)=Absent; (E)=Excused; (LOA)=Leave of Absence

Lou Jackson (P)	Deanne Landsverk (P)
Dennis Muretta (P)	Duane Landsverk (P)
Tim Reber (P)	Teddy Lovgren (P)
John McRoberts (P)	Dave Kohler (A)
Maureen Glenn (P)	Karen Kohler (A)
Steve Glenn (P)	Mandy Paradise (E)
Joel Gray (P)	Pat Paradise (P)
Dorothy Powter (P)	Jack Betterley (LOA)
Jarred Foss (P)	Kelly Evans (LOA)
Brian Smith (P)	Linda Smith (A)

Guests: John Ingemi 3-244

**Chairperson's Opening Comments:** Teddy Lovgren

Called meeting to order at 7:33 PM. Teddy advised the Lakes had been treated on 28 June.

**Meeting Minutes approval**

Joel moved to approve the 4 June LD Meeting Minutes, reference attached "1. LD Meeting Minutes (Final)"; Dennis seconded. Motion passed unanimously.

**Correspondence:**

LLCC received email from Dam Safety Office (reference attached "2. DSO release valve response") confirming no need for formal cycling of the dam valve at Lake Leprechaun but not allowing relief from testing the butterfly valve at the dam for Lake Limerick until additional analysis is performed allowing for alternative ways to reduce the lake level in case of an emergency need for drawdown. LLCC has requested Ken Martig (Dam Engineer) for an engineering assessment. Dennis took an action to work with CAM to regarding Ken Martig's feedback.

**Status of May Motions to the Board**

Motion made during the June LD Meeting to increase the amount of funds for weed/lake treatment was approved by the LLCC BOD.

**CAM Report: Roger**

Roger provided the attached written report prior to the meeting (reference attached document "3. LD CAM Report June 30, 2022). Teddy represented the report on behalf of the CAM.

Joel supplemented the Teddy's report out by reviewing the LD/CAM Work Order Log Sheet (reference attachment 3.1 202206023 Work Order Log Spreadsheet")

Teddy took an action to follow up with CAM re: 2022 Lake Limerick buoy replacement program (12 per year on a rotation basis) to ensure they are purchased and installed this season. Duane volunteered to work with Maintenance to have the buoy's place once they are delivered.

Teddy also took an action to get with CAM regarding getting the Lake Leprechaun core sampling results back from Lake Advocates (LA) and request summary feedback from LA regarding the water sample data received from IEH associated with the water sampling program.

**Parks Report:** Maureen/Steve

Maureen and Steve reviewed the parks on 21 May. Their report is attached (reference "4. Park Maint. Rpt June2022")

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**Docks/Floats Permits:** Teddy

Recommended approval of permit application for a new dock at Div. 3 Lot 55.

There are currently 2 new non-compliant boat lifts on Lake Limerick. Teddy is working with lot owners to ensure the permits are processed per LLCC permitting rules.

John McRoberts confirmed that docks built by Mitchell Lumber in Belfair are compliant with county rules.

**Boat Registrations:** Jarred

None this reporting cycle. Jarred noted there are 2 new pontoon boats on the lake this season that he will follow up on to ensure they are registered per LLCC requirements.

**OLD BUSINESS:**

**Budget Update:** Teddy

Draft budget was provided to LLCC on 3<sup>rd</sup> of June to support LLCC's required timeline (reference attached files "5. Lake Dam Expense Forecast and 5.1 Lake Dam Capital Projects"). Committees have until 3<sup>rd</sup> week in August to finalize them.

Duane made a motion to: "Have LD establish a 5-year Capital and Expense Budget with details identified to for the next 1 year. Add the budget to the LD Monthly Meeting Agenda so it is always in front of us and ready for the BOD 2 months prior to each due date" Brian seconded the motion. The motion was passed by the LD committee unanimously. Teddy noted someone from the committee will need to step up and support this activity. *All committee members have the action review the most current budget input and LA Report (June 2022 Update) and be prepared to discuss at the August meeting.*

**Community Signage:** Dennis Muretta

Per the CAM report, Norm to begin installation after "811 Locate" is completed.

**Lake Leprechaun Clean Out Project:** Steve/Maureen/Tim

We are still waiting for Lake Advocates get back to Tim and LLCC regarding the core samples at IEH (see CAM report above.).

**Park Host Status:** Dave

Dave not in attendance to provide status. However, Teddy reported last person showing interest did not follow up with Dave or LLCC.

**Dock/Floats Compliance:** Teddy

2 boat lifts currently not compliant -- see Docks, Floats Permits above

**Lakes Weed Treatments –** Dennis

Treatments provided by Aquatec on 28 June. More treatments expected over the balance of the season.

**Long Term Health and Welfare:** Brian

Brian advised there is no overall management plan for the Lakes and Parks. Dennis confirmed he was unable to find a prior Parks Plan that Dave mentioned in previous meetings may of existed somewhere. Teddy requested that the Long Term Health and Welfare Sub-Team actually meet and work on the issue. Brian took an action to develop a framework for a management plan.

**Long Term Vision for Parks / Restrooms:** Dennis

Survey results are in. Sub-team to review week of 6 July for near term projects that could be added to next year's budget.

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**NEW BUSINESS**

**Lake Patrol Captain:** Teddy

With Jared standing down as Lake Patrol Captain, Dennis will draft a lake patrol notice to members that Teddy will work with LLCC Office to post on LLCC website. Jared will then post on LLCC Facebook page.

**Project Manager for new PARS:** Teddy

Steve Saylor was not in attendance to provide status on advertising the Lake Dam Project Manager Position.

**Focals for the New PARS:** Teddy

No Updates

**Future Meetings:** Teddy

Teddy advised we need to move back to face to face meetings.

**Establish Records/Work Network:** Teddy

Mitch Robinson (BOD) is point of contact on this now.

**Cranberry Lake Storm Water Detention Structure:** Teddy

Advised of meeting minutes had been provided by CAM with support of Pat and other LD Members (reference attached file "6. Cranberry Lake Detention Structure 6.03.2022 Site Visit PP&RM+attendees). Currently no formal plan to address SWDS (coring, further analysis etc). Action is for Long Term Health and Welfare sub-team to address plan development and work with new LLCC Project Manager to execute the plan.

**Other Topics –** None

**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 (reference attached file "7. Action Item Status").

**Review of Motions to the Board:** None

**Motion to Adjourn:**

Joel motioned to Adjourn; Tim seconded. Motion passed with no nays. Meeting was adjourned at 9:22PM

Next Meeting – Saturday 6 August at 9:30 AM

**Look Ahead:**

July 16<sup>th</sup> - Board of directors Meeting @ 9am (Hybrid)  
Aug 6<sup>th</sup> - Lake-Dam Committee Meeting @ 9:30am (Zoom)  
Aug 20<sup>th</sup> - Board of Directors Meeting @ 9am (Hybrid)  
Sept 1<sup>st</sup> - Lake-Dam Committee Meeting, Thursday @ 7pm (Zoom)  
Sept 3<sup>rd</sup> - End of Summer Bash  
Sept 17<sup>th</sup> - Board of Directors Meeting @ 9am (Hybrid)

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**Motions to the Board**

None

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4 June 2022

Call to Order

Roll Call Committee Members: (P)=Present; (A)=Absent; (E)=Excused; (LOA)=Leave of Absence

Lou Jackson (E)	Deanne Landsverk (P)
Dennis Muretta (E)	Duane Landsverk (P)
Tim Reber (P)	Teddy Lovgren (P)
John McRoberts (P)	Dave Kohler (P)
Maureen Glenn (P)	Karen Kohler (A)
Steve Glenn (P)	Mandy Paradise (P)
Joel Gray (P)	Pat Paradise (P)
Dorothy Powter (A)	Jack Betterley (LOA)
Jared Foss (P)	Kelly Evans (LOA)

Guests: Tamera Ingwaldson 5-128, Dean Dyson 2-200, John Ingemi 3-244, Brian Smith 1-17, Linda Smith 1-17, Mike Berni 3-083, Dan Bussler 5-92, Steve Saylor 2-146

**Chairperson's Opening Comments:** Teddy Lovgren

Called meeting to order at 9:33 AM. Teddy advised of requests from Brian and Linda Smith to join the LD Committee. Advised of need to move July and September LD Committee meetings as they current dates land on a holiday weekend.

Dave moved that Brian Smith be admitted to the LD Committee, Jared seconded the motion. Passed with 10 yea and 2 nay votes.

Dave moved that Linda Smith be admitted to the LD Committee, Jared seconded the motion. Passed with 12 yea votes.

It was agreed the July Meeting will be moved to Thursday, 30 June at 7:00 PM.

It was agreed the September Meeting will be moved to Thursday, 1 September at 7:00 PM.

**Meeting Minutes approval**

Jared moved to approve the 7 May LD Meeting Minutes; Tim seconded. Motion passed 11 yea votes and 1 abstention.

**Correspondence:**

Don Bird advised that someone had recently used the LLCC Lake Razor (obtained from the Pro Shop) but did not clean up their resulting mess. Weeds etc ended up floating to neighboring members lots for cleanup. It is unclear who borrowed the razor and additional training has been provided to staff on the rake loan process. Joel will update the loan agreement to help ensure the weeds etc are removed from the lake by the member that borrows the razor.

**Status of May Motions to the Board**

No May Motions to the BoD. April MTB for approval of Park Survey was approved by the BoD.

**CAM Report: Roger**

Roger provided the following written report prior to the meeting.

*Water testing plan*

- *IEH Labs is non-responsive and I'm getting quotes from another lab used by Water Committee*

## Lake Dam Committee Meeting Minutes

4 June 2022

- *Escalation has resulted in no test results for April and May for 2 phosphorus & 1 nitrogen tests*
- *Lake Advocates agreed to escalate Friday*
- *Waiting for final shipment of test probe equipment to measure temperature, dissolved oxygen and ph (per 1-meter depth increments)*

### *Parks*

- *Olde Lyme vandalism is being assessed/repared*
- *Field camera being installed*
- *Awaiting 811 dig reviews prior to installing entrance signs*

*Data level loggers - Continuing to record Limerick dam readings*

*Dams O&M inspections - Completed per schedule*

*Leprechaun spillway gate valve & Limerick butterfly valve*

- *Letter sent to the DSO and under engineering review*
- *Recontacted again for review*

*Budget planning 2022-23 - Subcommittee submitted June 3 expense and capital plans*

Joel supplemented Roger's report based on outcomes of LD/CAM weekly WO Status meeting on 2 June. Namely:

Roger is trying to elevate the issue within IEH to obtain our April and May water samples as IEH is currently being non-responsive. Lake Advocates are also going to work to get the Lake Leprechaun Core sample report as well. If unsuccessful, LLCC may contract with another supplier.

While reported the Dam Operations Maintenance activities have been completed, Tim noted the grass is still to high and confirmation of a checklist of compliance was discuss by the Committee. Teddy will send a request to John to have a Dam Ops Checklist along with Data Logger data be provided to LD as part of this monthly CAM report. This will allow the data to be retained for community knowledge and as part of the LD meeting archives.

Roger to have Norm investigate "anti-vandalism" type swings at Olde Lyme Park. Norm has been directed to clean up the other spray-paint vandalism at the park. John will work with the BOD to reassess overall LLCC security, including our 7 parks.

Grass is coming in at Olde Lyme Park from the previous planting last season, albeit slowly. Roger requests we give it more time to come in fully.

Joel advised Roger that the water fountain at Log Toy Park is leaking. Roger to have Norm investigate.

Teddy will help Norm with placement of the 12 new buoys in Lake Limerick.

Roger and Norm will reassess buoy and log boom placement to better assure save passage for boats and other recreational activities between the Inn Park log boom and the lake buoys.

### **Parks Report:** Maureen/Steve

Maureen and Steve reviewed the parks on 21 May. Their report is provided as Attachment A to these minutes.

Overall, the parks look great. Kudos to Norm and Gerado for their maintenance efforts.

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Maureen again requested there be a mid-winter park clean up in order to get the leaves off the park lawns, thereby giving the grass a better chance to survive the winter and be more robust in the spring. Joel will add to the LD/CAM WO List.

**Docks/Floats Permits:** Teddy

- Received permit application for a Boat Lift; David and Marjorie Warren (02-271)

**Boat Registrations:** Jared

- No Updates

**OLD BUSINESS:**

**Budget Update:** Teddy

Teddy provided an update on the budget spreadsheet Roger, Dennis and he had developed over the last couple of weeks. A draft of the budget was provided to Roger on 3 June to support LLCC's budget development schedule.

Dave commented there are Park Host costs not included (Advertising, Cell Phone expenses). Teddy advised those costs were probably batched with other LD expense line items. Dave also observed the spreadsheet needed to be reviewed for correctness of calculations. Teddy agreed to re-review for correctness.

Teddy will talk with Roger as to what inflation / escalation rate LD should be using in the draft estimates. Dave made a motion for the LD Committee to reprioritize the Capital Projects list; Mandy seconded. It was commented that it is premature to vote to reprioritize the Capital Projects until we receive Lake Advocates updated recommendations based on the June 4th post Cranberry Creek SWDS Field Trip meeting. Vote was 2 yay and 7 nays; motion failed.

Teddy also agreed to add Park Security to the Capital Expense "Parking Lot" so the issue of security is not lost for future budgeting exercises.

Tim made a motion to increase the budget estimate to \$1400 in order to reach desired total amount of fish (370 pounds). Jarred seconded the motion. Passed unanimously Teddy will make the adjustment to our draft 2022-2023 budget request.

**Community Signage:** Dennis Muretta

Per the CAM report, Norm to begin installation after "811 Locate" is completed.

**Lake Leprechaun Clean Out Project:** Steve/Maureen/Tim

We are still waiting for Lake Advocates get back to Tim and LLCC regarding the core samples at IEH. Both LLCC and LA will continue to reach out to IEH for the core report they are to provide to LLCC. ECD remains TBD.

**Park Host Status:** Dave

The recent candidate to be a Park Host, fell through. Matt Jensen is currently our only park host this year and is located at Anglia Park.

Park Host Recruiting Process is estimated to be one half complete.

**Dock/Floats Compliance:** Teddy

No Updates.

**Lakes Weed Treatments** – Joel (on behalf of Dennis)

This year's treatment plan covers a larger area in both lakes requiring treatment. As a result, an additional amount of funds are required to contract with Aqua-Tec. Joel made a motion to request

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additional funds be authorized by the BOD. Motion was seconded by Maureen. Motion passed unanimously.

***See Motion to the Board***

Tim noted that Pond Weed is beginning to show up again in Lake Leprechaun. Tim, Maureen, and Steve to pull weeds this summer.

Maureen requested that next year LD/LLCC get the weed treatment scheduled with the Treatment Applicator company as soon as practical, so LLCC's lake get priority.

**Long term health and welfare:** Brian

Subteam confirmed as Brian, Teddy, Dennis, Pat and John. Joel provided the outline/approach to lake health he and Jack Betterley developed in 2020 to help with the new team's efforts.

**Long Term Vision for Parks / Restrooms:** Teddy (on behalf of Dennis)

Waiting for Park Survey Results in order to assess next steps. John Ingemi will request LLCC office to send out email reminder to HOA membership to complete the survey.

**NEW BUSINESS**

**Project Manager for new PARS:** Teddy

Board has approved the job description. It is LD's understanding that Steve Saylor will follow up on Advertising the position. John Ingemi will ping Steve to confirm he is aware of the action.

**Focals for the New PARs**

No Updates

**Future Meetings:**

Kelly Evans (Water Committee Chair) will help with investigate in person / zoom hybrid meetings.

**Establish Records/Work Network – Teddy**

Mitch Robinson (BOD) is point of contact on this now.

**Greenbelt Committee – Teddy (on behalf of Dennis)**

Dennis sent out a map of greenbelt areas, Pat has a correction to make regarding the color coding of the map.

**Cranberry Lake Storm Water Detention Structure -- Teddy**

A field trip with Lake Advocates (Harry and Rob), Ken Martig (Dam Engineer), CAM and other community members was conducted on 3 June to the Cranberry Lake Storm Water Detention Structure to better understand the current status of the structure and lake environment behind the structure. Objective is to understand sediment and nutrients that negatively impact Lake Limerick. LA recommends our current water quality testing locations be expanded to outlets of the conduits from Cranberry Lake and Lake Leprechaun. Teddy to request a copy of the meeting minutes be obtained from Roger.

**Other Topics –**

None

**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.

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4 June 2022

**Review of Motions to the Board:** See Below

**Motion to Adjourn:**

Joel motioned to Adjourn; Mandi seconded. Motion passed with no nays. Meeting was adjourned at 12:17PM

Next Meeting - Thursday, 30 June at 7:00 PM

**Look Ahead:**

June 18<sup>th</sup> - Board of Directors Meeting @ 9am (Hybrid)  
June 30<sup>th</sup> - Lake-Dam Committee Meeting, Thursday @ 7pm (Zoom)  
July 2<sup>nd</sup> - Lake Limerick Daze  
July 16<sup>th</sup> - Board of directors Meeting @ 9am (Hybrid)  
Aug 6<sup>th</sup> - Lake-Dam Committee Meeting @ 9:30am (Zoom)  
Aug 20<sup>th</sup> - Board of Directors Meeting @ 9am (Hybrid)  
Sept 1<sup>st</sup> - Lake-Dam Committee Meeting, Thursday @ 7pm (Zoom)  
Sept 3<sup>rd</sup> - End of Summer Bash  
Sept 17<sup>th</sup> - Board of Directors Meeting @ 9am (Hybrid)

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**Motions to the Board**

**Motion:** LD Committee requests LLCC Board of Directors increase the authorized 2022 lakes weed treatment budget from \$35K to \$40K.

Rationale:       \*Increased amount of area to be treated this year is greater than last year's area.  
                      \*The additional \$5K is needed to support Aqua-Tec's current quote  
                      \*Treatment needed in the June time frame





Ted Lovgren &lt;thl9986@gmail.com&gt;

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**DSO release valve response - FW: Lake Limerick**

4 messages

**CAM** <cam@lakelimerick.com>

Thu, Jun 23, 2022 at 12:56 PM

To: Teddy Lovgren &lt;thl9986@gmail.com&gt;, Joel Gray &lt;jgray662@comcast.net&gt;, Dennis Muretta &lt;djmuretta@hotmail.com&gt;

Discussed with Joel this morning during WO review. We are essentially back to square 1 exercising Limerick's butterfly valve.

Re Leprechaun gate valve, DSO is not requiring exercise though recommending inspections.

See Tom's report.

Roger

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**From:** Satterthwaite, Tom (ECY) <tsat461@ECY.WA.GOV>**Sent:** Thursday, June 9, 2022 2:32 PM**To:** CAM <cam@lakelimerick.com>**Cc:** Ordonez, Gus (ECY) <gord461@ECY.WA.GOV>; Goodman, Jodi (ECY) <jgoo461@ECY.WA.GOV>; Myers, Gary (ECY) <gmye461@ECY.WA.GOV>**Subject:** RE: Lake Limerick

Good morning Roger,

I took a look at your letter and I'll provide a few comments in this email. First off, to state the obvious, for a dam such as yours which impounds a recreational lake, the low outlet doesn't get much use in the course of its lifetime. There are actually quite a few dams in the state of Washington (many owned by HOA's) that have the same issues. For many of those, their low outlet is in far worse shape. They are often non-functional, and sometimes even the location of the outlet isn't known. In the past few years the DSO has been focusing a little more on dams with low outlet problems. I'll discuss Limerick and Leprechaun separately.

Limerick Dam:

For a dam like Lake Limerick Dam, the obvious advantage for having a low outlet is in the event of an emergency you can draw down the water level. With a 24 inch pipe you can do it rather quickly. In a scenario where there has been a sudden increase in seepage and there is evidence of ongoing internal erosion, having a low outlet that can quickly drop the water level in the lake could save the dam, or at least delay a potential dam breach.

The low outlet pipe and valve on Limerick Dam is relatively new (about 25 years), so it has some life left. I don't think it's an issue if you want to reduce the frequency of valve operation, it should be fairly reliable for at least the next decade. The problem though is if the valve isn't being checked and tested regularly, we would consider it to be a less reliable option for drawing down the water in an emergency situation.

In general, a diver isn't going to be able to assess the operability of the butterfly valve, and certified divers are expensive. The better option would be developing a plan for draining the lake with pumps or a siphon, but you have to consider the size of lake we are talking about. The storage volume varies from 920 to 1,600 acre-feet, which is a considerable volume. We don't have estimates of flow capacity in our records, but the outlet pipe was originally 36 inches in diameter, and after the 1994 slip-line project is still over 24 inches. With the pressure head behind it, the flow of water will be substantial. A pumping system that can even somewhat match that kind of flow is going to be substantial and will need planning, and probably an up-front financial investment into equipment. Alternatively, a siphon system may not be as complex, but it may also require some planning, initial investment and periodic training. Consider the worst-case scenario where either system would be used for: a large storm event in the middle of the night. Clearly the low outlet offers some significant advantages here.

Since the numbers don't appear to be available in DSO records, you should ask your engineer to develop a flow rating curve for your low outlet pipe and estimate the rate of drawdown in the lake with it fully open. Then research pumping or siphon systems to try and match that performance. Does anyone in your area have that kind of equipment? Does the LLCC have the personnel knowledgeable and experienced in the installation and use of siphons? When modifying your O&M Plan, you will need to have contact information of local business able to supply the equipment/materials needed, ~~and~~ a list of equipment/materials needed, and that are readily available 24/7.

#### Leprechaun Dam:

As for the Leprechaun outlet, that dam is a significantly lower with a far smaller lake volume, so I'm not as concerned with Leprechaun Dam. It is a slide gate as I recall, with a lot of it accessible without having to use a diver. It is older too, so I understand if you are worried about it not working correctly. I don't think it will be a problem to stop testing that one, but it should still be checked visually. In addition, as required in our 2021 inspection report, the interior of the conduit should be inspected with a remotely controlled video camera. Like Leprechaun, you should set up a plan to pump water out of the lake if you have potential dam breach developing. Also consider replacing the gate in the future. If the outlet structure begins to fail, you may not have a choice.

For your information, the following link provides more detailed information about conduits through dams:

[https://www.swc.nd.gov/pdfs/conduits\\_embankment\\_dams.pdf](https://www.swc.nd.gov/pdfs/conduits_embankment_dams.pdf)

Hopefully this email provides some clarification on our position with low outlet pipes. Please feel free to contact me if you would like to discuss further.

Tom Satterthwaite, P.E.

*Department of Ecology*

*Dam Safety Program*

*tsat461@ecy.wa.gov*

*(360) 407-6620 (Office)*

*(360) 480-1397 (Cell)*

*This communication is a public record and may be subject to disclosure*

*as per the Washington State Public Records Act, RCW 42.56.*

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**From:** CAM <[cam@lakelimerick.com](mailto:cam@lakelimerick.com)>  
**Sent:** Friday, June 3, 2022 10:26 AM  
**To:** Satterthwaite, Tom (ECY) <[tsat461@ECY.WA.GOV](mailto:tsat461@ECY.WA.GOV)>  
**Subject:** FW: Lake Limerick

**THIS EMAIL ORIGINATED FROM OUTSIDE THE WASHINGTON STATE EMAIL SYSTEM - Take caution not to open attachments or links unless you know the sender AND were expecting the attachment or the link**

Morning Tom,

Contacting to request your review of the attached letter Jodi forward to you.

I'm available for discussion.

Thank you,

*Roger Milliman*  
*Community Association Manager*  
*Lake Limerick*  
*360.426.3581*  
*790 E Saint Andrews Drive*  
*Shelton, WA 98584*  
*[www.lakelimerick.com](http://www.lakelimerick.com)*

*Lake Limerick C.C.*



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**From:** CAM  
**Sent:** Monday, March 7, 2022 4:13 PM  
**To:** Jodi (ECY) <[jgoo461@ecy.wa.gov](mailto:jgoo461@ecy.wa.gov)>  
**Subject:** Lake Limerick

Hi Jodi,

Requesting the DSO review the attached letter written with the support of our dam engineer Ken Martig.

Lake Limerick is submitting our request for the DSO to reconsider elimination the current requirement for operating valves per our Dam Operations and Maintenance Manual.

I'm available for discussion.

FYI, our surveyor confirmed by the end of the week he will supply the 3 dam monuments location information. When received, I will forward.

Thank you,

Roger Milliman

Community Association Manager

Lake Limerick

790 E Saint Andrews Drive

Shelton, WA 98584

360.426.3581

*Lake Limerick C.C.*



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**Ted Lovgren** <thl9986@gmail.com>

Thu, Jun 23, 2022 at 2:46 PM

To: CAM <cam@lakelimerick.com>

Cc: Joel Gray <jgray662@comcast.net>, Dennis Muretta <djmuretta@hotmail.com>

Hi Roger,

I assume we will need to do a study and planning for both Lakes to accommodate the DSO recommendations. This cost is not currently in our budget for 2022 and it is not clear how we would go about pricing this without input from someone like Ken Martig. Could we ask Ken to SWAG (scientific wild ass guess) a number for us?

Thanks

Teddy

On Jun 23, 2022, at 12:56 PM, CAM <cam@lakelimerick.com> wrote:

[Quoted text hidden]

[Quoted text hidden]

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**From:** CAM

**Sent:** Monday, March 7, 2022 4:13 PM

**To:** Jodi (ECY <jgoo461@ecy.wa.gov>  
**Subject:** Lake Limerick

Hi Jodi,

Requesting the DSO review the attached letter written with the support of our dam engineer Ken Martig.

Lake Limerick is submitting our request for the DSO to reconsider elimination the current requirement for operating valves per our Dam Operations and Maintenance Manual.

I'm available for discussion.

FYI, our surveyor confirmed by the end of the week he will supply the 3 dam monuments location information. When received, I will forward.

Thank you,

Roger Milliman

Community Association Manager

Lake Limerick

790 E Saint Andrews Drive

Shelton, WA 98584

360.426.3581

 image004.jpg

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**CAM** <cam@lakelimerick.com>

To: Ted Lovgren <thl9986@gmail.com>

Cc: Joel Gray <jgray662@comcast.net>, Dennis Muretta <djmuretta@hotmail.com>

Thu, Jun 23, 2022 at 3:43 PM

I emailed Ken the DSO response requesting his swag for current release system drawdown for Limerick. As I recall, Ken engineered this system. I additionally requested a swag for Leprechaun.

On a different topic, I contacted Rob with LA who is near completion of drafting short and long term lake management priorities with swag ROI's (requested during Cranberry fieldtrip wrap-up). Planning to complete this weekend then he'll send to Harry for review.

With that LA deliverable, I've requested Ken Martig review LA's recommendations from his perspective and respond.

With that in hand, LL will have 2 points of view to consider.

Roger

[Quoted text hidden]

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**Ted Lovgren** <thl9986@gmail.com>

Sat, Jun 25, 2022 at 7:44 PM

To: Dave - Home Kohler <dave.kohler@q.com>, Dennis and Julie Muretta <djmuretta@hotmail.com>, Dorothy Powter <dorothygail7@gmail.com>, Duane Landsverk <duane@lqh-inc.com>, Jack Betterley <jgbette@gmail.com>, Jarred Foss <fossja87@gmail.com>, Joel Gray <jgray662@comcast.net>, John McRoberts <john.mcroberts.email@gmail.com>, Karen Kohler <karen.kohler@q.com>, Kelly - LLCC Evans <klevans.llcc@gmail.com>, "Landsverk, Deanne" <Deanne@lqh-inc.com>, Lou Jackson <LJ1776@yahoo.com>, Mandy Paradise <mparadise01@gmail.com>, Maureen Glenn <Maureen.glenn@trilogypartnership.com>, Pat Paradise <patparadise@comcast.net>, Steve Glenn <jsglenn19@gmail.com>, Tim Reber <Rebertl@msn.com>, Brian Smith <smithbnl@comcast.net>, Linda Smith <travelswithlinda@comcast.net>  
Cc: "Milliman, Roger - LLCC CAM" <CAM@lakelimerick.com>

FYI, the DSO is unwilling to accept our recommendation/request to discontinue maintenance/testing of the Dam conduit outlet release valve without establishing the capability to quickly bring down the level of the lake. Roger is requesting an estimate from Ken Martig on the cost to perform study/planning for various options (maintaining/replacing the valves, establishing the capability to perform emergency pumping, installation of a siphon system, etc.). Will need to include this cost in our 2022-23 budget estimate.

Thanks

Teddy

[Quoted text hidden]

## LD CAM Report

June 30, 2021

### Parks

- Olde Lyme was retagged and cleaned again
- Removed field camera was returned with the support of MCSO and is being reinstalled
- New park signs are being installed
- Getting a quote for bathroom cleaning service

### Water testing plan

- IEH Labs responded with April and May reports attached; shared with Lake Advocates
- June samples FedEx shipped to IEH and awaiting results
- Waiting for final shipment of test probe equipment to measure temperature, dissolved oxygen and ph (per Lake Advocates recommendations)

### Data level loggers

- See attached June reports
- Reports available from January to present

### Dams O&M inspections

- Dams are assessed twice per month
- Third mow of the season planned including shorelines
- O&M monthly checklist to be used going forward – TY for Joel's support

### Leprechaun spillway gate valve & Limerick butterfly valve

- With the DSO engineer rejection of eliminating the exercise of Limerick valve, Ken Martig contacted to provide drawdown calculations

### Budget planning 2022-23

- LD budget is built into HOA draft budget and submitted to the Board for review

### Lake Advocates

- As a result of the Cranberry field trip, short term (5 yr) and long term (>10 yr) lake management recommendations received

## Lakes, Dams and Parks Work Orders Log: 23 June 2022

Date	Priority (1,2,3)	Work Order Number	Task	Safety Issue (Y/N)	Assigned to	Due Date	Completion Date	Requestor/ Task POC	Project Status
7/20/2021	2	2021-13b	Make Gate Valve at Lake Lep dam operational	Y	Norm	Pending State feedback ECD 9/30/2022 11/30/2021	6/9/2022	Tim Reber	<p>6/23/22 -- State thinks it is not a problem to stop testing the gate valve. State requests LLCC develop a plan to pump water out of the lake in order to prevent a breach of the dam and consider replacing the gate at some point in the future. WO 2022-19 established as not to lose this action.</p> <p>6/9/22 -- 2nd follow up request made to DSO. No response to our 7 March letter requesting a 31 March response. ECD remains TBD.</p> <p>6/2/22 -- Roger to follow up with State re: Letter requesting relief from maintaining dam valves.</p> <p>* Status prior to 6/2/21 archived.</p>
1/8/2022	3	2022-02	Adjust/secure Lake leprechaun Spillway diverter structure so during high water events it prevents debris from being released into the spillway grate and eventually downstream into Lake Limerick.	N	Roger	9/30/2022		Tim Reber	<p>6/23/22 -- No Change, On Schedule</p> <p>6/9/22 - No Change.</p> <p>6/2/22 -- New ECD established with Roger. WO to be completed just prior to beginning of weir board removal.</p> <p>5/26/22 -- No change in status.</p> <p>5/19/22 -- No change in status.</p> <p>5/12/22 -- Most likely to occur during summer low water level (Augustish).</p> <p>*Status prior to May is archived.</p>
6/1/2022	2	2022-06	Install Park Signage	N	Norm	7/29/2022		Dennis Muretta	<p>6/23/22 -- Installations commenced. Angelia and Inn Parks completed. On schedule for balance.</p> <p>6/9/22 -- "Locate" requested. Norm to obtain sign posts etc this week and build one frame and install as a proof of concept before buying all materials to install the rest of the park signs.</p> <p><b>Roger requested LD status (Dennis) re: the 3 extra signs required resulting from the sign placement field trip.</b></p> <p>6/2/22 -- "Locate" for digging to be called in by Norm. Post holes to be dug with LLCC auger. All signage to be installed incrementally over the summer. Priority to be given to the large park signs. All signs to be completed by end of July.</p>
6/1/2022	1	2022-07	Perform Dam Maintenance IAW Dam Operations Manual / Schedule	Y	Norm	ongoing		Roger Milliman	<p>6/23/22 -- Busy with budget prep and other high priority issues. Joel volunteered to develop a checklist for LLCC.</p> <p>6/9/22 -- Roger to develop maintenance checklist based on current manual. As part of their recent inspection, Norm and Gerado identified a spring near the dam at Angelia Park and built a diversion to prevent water from pooling along the dam wall.</p> <p>6/2/22 -- Roger to confirm and report to LD monthly that maintenance activities occurred the previous month.</p>



## Lakes, Dams and Parks Work Orders Log: 23 June 2022

Date	Priority (1,2,3)	Work Order Number	Task	Safety Issue (Y/N)	Assigned to	Due Date	Completion Date	Requestor/ Task POC	Project Status
6/1/2022	1	2022-08	Perform water quality sampling IAW Plan	Y	Norm	ongoing		Roger Milliman	<p>6/23/22 -- April and May reports received and provided to LA for future planning. June's sample was taken on 6/20 and sent to IEH. Report expected in 4-6 weeks.</p> <p>6/9/22 -- Roger has elevated IEH's non-responsiveness within IEH. Lake Advocates to to meet them this week. Roger working with LLCC Water Dept to access potential new vendor and has received a quote from Spectra Laboratories in Tacoma. Price to perform testing is more expensive (37%) than IEH which will result in an overrun to approved funding should LLCC go with a new vendor. <b>LD to address this potential newer price as part of the 2022-2023 budget process.</b></p> <p>6/2/22 -- Roger to confirm and report to LD monthly that water quality activities occurred the previous month. Our new testing contractor has yet to report out on April and May samples. Roger to considering new contractor since IEH has been nonresponsive.</p>
6/1/2022	1	2022-09	Repair / Replace damaged swingset at Olde Lyme Park.	Y	Norm	ECD Pending 6/30/2022		Roger Milliman	<p>6/23/22 -- Parts ordered, but installation will be held until recurring vandalism is successfully dampened.</p> <p>6/9/22 -- Two new swing seats ordered.</p> <p>6/2/22 -- Roger to have Norm look into "anti-vandalism" type swings. Current park security protocols do not appear to be working (topic for future discussion)</p>
6/1/2022	2	2022-10	Assess path forward for lawn at Olde Lyme	N	Norm	7/30/2022		Roger Milliman	<p>6/23/22 -- Assessment continues.</p> <p>6/9/22 -- Reassess as the season progresses. New top dressing had been applied, but Roger was unsure whether that was before the recent observations. LLCC looking to expand need for security cams at parks as part of security measures for the water towers / wells.</p> <p>6/2/22 -- Roger feels the grass is coming in (albeit slowly) and no action is required. We agree to reassess in a month to determine path forward.</p>
6/1/2022	1	2022-12	Fix water fountain leaking at log toy.	N	Norm	6/8/2022	6/20/2022	Roger Milliman	<p>6/23/22 -- Leakage to remain to keep water moving through system. Keeps water clean. WO Closed.</p> <p>6/9/22 -- WO conveyed to Water Dept for repair. Awaiting feedback from new Water Manager (Chris) re: fix.</p> <p>6/2/22 -- Roger to advise Norm of need for repair</p>
6/2/2022	2	2022-14	Install new this year's new set of buoys on Lake Limerick	N	Norm	6/30/2022	6/23/2022	Teddy Lovgren	<p>6/23/22 -- Buoys deferred for this year due to budget constraints. WO Closed.</p> <p>6/9/22 -- Roger requested Ted reach out to schedule time to review location of new buoys prior to ordering the buoys.</p> <p>6/2/22 -- LD to work with CAM to determine which buoys to be replaced as part of the 2022 allocation of new buoys.</p>

Rating Status Color Definitions: Behind Schedule Schedule Risk On Schedule Completed

## Lakes, Dams and Parks Work Orders Log: 23 June 2022

Date	Priority (1,2,3)	Work Order Number	Task	Safety Issue (Y/N)	Assigned to	Due Date	Completion Date	Requestor/ Task POC	Project Status
6/2/2022	1	2022-15	Reassess spacing of lake buoys and log boom to better allow for safe vehicle passage.	Y	Norm	6/30/2022	6/21/2022	Roger Milliman	6/23/22 -- Buoys moved. WO Closed. 6/9/22 -- Two replacement buoys to be moved further lakelakeside (one buoy to be ordered to suppliment existing buoy currently in inventory). 6/2/22 -- Roger and Norm to evaluate LD's concern re: log boom and buoy locations and report back to LD.
6/20/2022	3	2022-16	Inspect Banbury boat ramp for tree root damage and advise LD committee re: recommended next steps.	N	Joel	7/8/2022		Roger Milliman	6/23/22 -- Recent work by Maintenance in that area may have given the perception of a root / problem. Joel will inspect and update Roger this week. 6/20/22 -- WO resulting from June LD Park Survey authored by Maureen and Steve Glenn.
6/20/2022	1	2022-17	Mow vegetation in front of Lake Lep spillway to a maximum level of 8" iaw Dam Operations and Maintenance Manual.	N	Norm	7/1/2022		Roger Milliman	6/23/22 -- Mowing scheduled for next week. To be completed by 7/1/22. 6/20/22 -- WO resulting from June LD Park Survey authored by Maureen and Steve Glenn.
6/20/2022	2	2022-18	Olde Lyme Park- Bathroom side wall needs to be painted with matching beige paint where the graffiti was covered up	N	Norm	7/14/2022		Roger Milliman	6/23/22 -- Recent vandalism has stopped further repair to the park. LLCC to address park building improvements (roofs, paint etc) based on Park Survey report and LD's future motions/recommendations. LLCC working with Mason County Sheriff regarding field camera stolen from Olde Lyme Park. 6/20/22 -- WO resulting from June LD Park Survey authored by Maureen and Steve Glenn.
6/23/2022	3	2022-19	Update Dam Operations Manual to address DOE email dated 9 June 2022 regarding emergency drawn down at both Lake Limerick and Lake Leprechaun.	Y	Norm	9/30/2022		Roger Milliman	6/23/22 -- Follow on action based on outcome of WO 2021-13b

# PARK MAINTENANCE MONTHLY REPORT

DATE

Jun 18 2022  
Saturday

	YES/NO	Needs Attention
<b>ANGLIA BEACH</b>		
Garbage can(s) empty? (They are emptied Mon & Fri)	Yes	
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Restroom is cleaned and stocked? (Done Mon & Fri May1-Oct 31)	Yes	
Lawn mowed recently?	Yes	
Ground debris cleaned up?	Yes	
All debris removed from spillway?		
Safety floats are above the water at the spillway?		
Notes:		
Nice suns!		
No Goose Poop! ☺		
<b>BANBURY PARK</b>		
Garbage can(s) empty? (They are emptied Mon & Fri)	Yes	
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Restroom is cleaned and stocked? (Done Mon & Fri May1-Oct 31)	Yes	
Lawn mowed recently?	Yes	
Ground debris cleaned up?	Yes	
Notes:		
Tree roots destroying boat launch		X
No Goose poop ☺		
<b>CLUBHOUSE/INN</b>		
Garbage can(s) empty? (They are emptied Mon & Fri)	Yes	
Dog Station has poop bags available?	Yes	
Litter picked up?	Yes	
Lawn mowed recently?	Yes	
Ground debris cleaned up?	Yes	
Are pathways swept?	Yes	
Is the roof free of debris?	Yes	
Notes:		
No goose poop! ☺		

		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?	Yes	
Ground debris cleaned up?	Yes	
Debris removed from spillway?	Yes	
Notes:		
Grass by dam needs cutting		X
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)	Yes	
Lawn mowed recently?	Yes	
Ground debris cleaned up?	Yes	
Notes:		
No Goose Poop ☺		
OLD LYME PARK	YES/NO	
Garbage can(s) empty? (They are emptied Mon & Fri)	Yes	
Dog Station has poop bags available?	Yes	
Litter picked up?		
Restroom is clean and stocked? (Done Mon and Fri May 1-Oct 31)	Yes	
Lawn mowed recently?		
Ground debris cleaned up?		
Notes: Field camera on tree ☺		
Bathroom needs painting where tagging was		X
Graffiti off pole & climbing wall ☺		
Swing seats cut more - being replaced		
WAY TO TIPPERARY	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)	Yes	
Lawn mowed recently?	Yes	
Ground debris cleaned up?		
Notes:		
Yellow wires in lake by boat launch		X
Spoke to Roger & Joel already		



## Maureen Glenn

---

**From:** Maureen Glenn  
**Sent:** Monday, June 20, 2022 8:37 AM  
**To:** Maureen Glenn  
**Subject:** Yellow lake lilies-Way to Tipperary Boat Launch



Sent from my iPhone

# LAKES-DAMS-PARKS 2022-23 EXPENSE BUDGET

## Lake-Dam Committee

			2022			2023											
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Total	Comments	BOE
63600.0	Labor																
63600.10	Lake Dam Department Mgr		\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$66,000	Plnd Job Salary	LLCC Estimate
63700.0	Lake Expenses																
63700.10	Technical Support/Analysis/Testing																
63700.11	Lake Advocates Consulting/Surveys		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$24,000	Limerick/Leprechaun	Historical Data
63710.12	AquaTechnex Weed Treatment/Permits									\$15,000	\$15,000	\$15,000			\$45,000	Limerick/Leprechaun	Vendor Quote
63710.13	Water Quality Sampling/Testing		\$500						\$500	\$500	\$500	\$500	\$500	\$500	\$3,500	IEH Labs	Vendor Quote
63700.20	Geese Mitigation										\$2,200				\$2,200	As Required	Historical Data
63700.30	Lake Limerick Fish Plant/Derby																
63700.31	Spring Fish Plant								\$4,000						\$4,000	Nisqually Trout	Historical Data
63700.32	Fishing Derby								\$2,000						\$2,000	Misc. Expenses	Historical Data
63700.33	Fall Fish Plant													\$1,500	\$1,500	Nisqually Trout	Historical Data
63700.40	Lake Leprechaun Fish Plant								\$1,400						\$1,400	Nisqually Trout	Historical Data
	Total														\$83,600		
63805.0	Licenses & Permits																
63805.10	Fishing Derby (WDFW)								\$200						\$200	Annual Permit	Fee Schedule
63805.20	Dam Operations (Dept of Ecology)								\$3,500						\$3,500	Annual Permit	Fee Schedule
	Total														\$3,700		
65000.0	Park Expenses																
65000.1	Restroom/Shed Roof Replacement		\$3,000							\$3,000	\$3,000	\$1,500			\$10,500	5 Parks/LLCC Install	LLCC Estimate
65000.2	Park Host Advertisement					550									\$550		
	Total														\$11,050		
67200.0	Repairs and Maintenance																
67200.10	Misc. Dam Repairs & Maintenance		\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$300	\$3,600	Misc. Hardware	Historical Data
67200.20	Misc. Lake Repairs & Maintenance		\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$450	\$5,400	Misc. Hardware	Historical Data
67200.30	Misc. Park Repairs & Maintenance		\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$2,400	Misc. Hardware	Historical Data
	Total														\$11,400		
67800.0	Small Tools & Equipment																
67800.10	Misc. Tools/Equipment		\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$1,200	Misc. Hardware	Historical Data
67805.0	Supplies																
67805.10	Misc. Supplies		\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$1,200	Consumables	Historical Data

GRAND TOTAL \$178,150

**DRAFT VERSION DATED 06/07/2022**

## Capital Projects & Equipment List

2022-23 Budget

Lake-Dam Committee

Escalation factor: 1.08

**DRAFT Dated 9June2022**

Project / Equipment Description	2021-22 Cost Estimate	2022-23 Adjusted For Escalation	Provides Safety	Maintains Asset	Improves Member Experience	Comments
1. Lake Leprechaun Dredging (Ph 2)	\$50,000	\$54,000		X		Detailed Engr/Permitting
2. Inn Island Rebuild; NW Corner (Ph 1)	\$5,000	\$5,400	X	X		Feasibility Study**
3. Inn Island Bridge Upgrade/Rebuild (Ph1)	\$5,000	\$5,400	X	X	X	Feasibility Study**
4A. Cranberry Creek Retention Pond (Ph 1)	\$22,000	\$23,760		X		Feasibility Study**
4B. Cranberry Creek Retention Pond (Ph 2)	\$40,000	\$43,200		X		Detailed Engr/Permitting
5A. Bird Sanctuary Dredging (Ph 1)	\$12,500	\$13,500		X		Feasibility Study**
5B. Bird Sanctuary Dredging (Ph 2)	\$50,000	\$54,000		X		Detailed Engr/Permitting
8. Weed Harvester or Equivalent	\$100,000	\$108,000		X		System Analysis/Procurement
Total	\$284,500	\$307,260				

*\*\*Includes Concept Development, Design and Cost Analysis, Project Planning*

## Candidate Projects

1. Large Park Cabana (Park at the Inn)					X	Foundation & Cabana Install
2. Medium Park Cabana's (Anglia, Old Lyme)					X	Foundation & Cabana Install
3. Banbury Restroom Heater/Cypher Locks					X	Upgrade for Winter Usage
4. Security Cameras for Parks			X	X		

## Cranberry Lake Storm Water Detention Structure Site Visit 06-03-2022

### Attending:

Pat Paradise	LLCC Lake/Dam
Ken Martig Jr	Martig Engineering (Designer of Cranberry Lake Storm Water Detention Structure (SWDS))
Steve Saylor	LLCC BOD
Dorothy Powter	LLCC Lake/Dam
Joel Gray	LLCC Lake/Dam
Teddy Lovgren	LLCC Lake/Dam
Harry Gibbons	Lake Advocates
Robert Plotnikoff	Lake Advocates
Tim Reber	LLCC Lake/Dam
Roger Milliman	LLCC CAM

### Meeting Minutes:

The purpose of the site visit was to assess the viability of the storm water basin (SWDS) to collect nutrients and sediment with the goal of reducing loading into Cranberry Creek and Lake Limerick. Nutrient loading adds to Limerick weed growth.

The site visit was an opportunity to get a firsthand view of the storm detention structure and sediment retention basin. Structure was built in 1989 under directives from Dept of Ecology and Army Corps of Engineers to control rate of storm water discharge into Lake Limerick and to provide a basin to hold both storm water and sediment. The detention structure replaced an existing wood



bridge crossing Cranberry Creek, and the basin was created by hydraulically dredging the lagoon before exiting Cranberry Lake.

**Notable Harry Gibbons comments:**

Recommendation to take basin core samples to determine sediment accumulation levels and depth.

Sediment is visibly present in the basin based on plant life growth.

Comment from a Cranberry BoD member Laurie Cox: Beaver Dams have artificially raised the overall water level of Cranberry Lake

Cranberry Lake is a natural lake – hundreds of years old

A natural lake flushes itself – a reservoir (Lake Limerick) retains up to 90% of sediments

Probably 18 to 20 percent of the nitrogen and phosphorous entering Lake Limerick is directly attributable to rainfall and pollen resulting from climate modulation

Septic tanks/drain fields filter pathogens and are the primary source of nitrogen and phosphorous entering Lake Limerick. If Lake Limerick was being proposed/developed today – a sewer system would be a requirement.

Centennial Grant Program could be a source for a sewer system and mitigation of other negative sources of inputs into the lakes.

Geese mitigation is recommended to continue. 3lbs of phosphorus yields 10K lbs of algae.

Strong recommendation to focus on septic/drain field education of LLCC Members. Topics to include planting of vegetation and tank pumping every 2 to 3 years. Septic systems are designed to prevent pathogens and not phosphorous/nitrogen that with a properly functioning drain field will be ground absorbed prior to entering the lake. Add vegetation and calcium to drain fields, and periodically flush with a quart of organic yogurt.

Dredging at 5-to-10-year intervals will “buy-back” lake lifetime. What do we want as a community? Answer: Recreational opportunities, aesthetics, and fish habitat supporting member land values.

The bird sanctuary is the biggest area to currently focus on – needs aggressive plant management.

Harry Gibbons recommended measuring nutrients below the culverts exiting Lake Leprechaun and Cranberry Lake rather than in Cranberry Cove in order to better identify the source of nutrients that create the organic growth in Lake Limerick.

Lake Advocates was tasked to write a report prioritizing potential remedies with cost / benefits to maintain/improve the health of 2 lakes.

LA report to potentially include sedimentation retention pond/s, geese mitigation, eliminating phosphorous fertilizer usage, periodic septic system pumpings/inspections, annual weed herbicide treatments, dredging and sewer system.

### **Specific Ken Martig comments:**

Lake Limerick and Lake Leprechaun are “new” lakes

A major source problem is that LLCC inundated existing organic land with water as a result of building the lake. The submerged organic materials and the lake are trying to reach equilibrium.

(Minutes taken by Pat Paradise and Roger Milliman)

## Lake/Dam Committee Action Item Status

As of: 30June2022

Commitments & Action Items	Date Assigned	Assigned To	Due Date	ECD / Status
Meet with Lake Advocates to review core sampling results and determine next steps for Phase 2 PAR	4-Dec-21	Maureen, Steve, Tim	TBD	Held for LA's Lab Report/Recommendation
Examine the parks for fit and feasibility of proposed structures.	8-Jan-22	Dennis (lead), Dorothy, Joel, Teddy, Pat, Steve and Deanne.	TBD	To Be addressed in Subcommittee Plan/Recommendations
Obtain community input on adding structures/improvements to the parks to help inform the committee's next steps.	8-Jan-22	Dennis (lead), Dorothy, Joel, Teddy, Pat, Steve and Deanne.	June 14th	<b>COMPLETE</b> Survey developed and released to LLCC membership May 24th via Survey Monkey. Results under review by SubTeam
Update Weed Rake Form to include instructions to users to properly dispose of their harvested lake weeds.	4-Jun-22	Joel	w/o June 8	<b>COMPLETE</b>
Request Roger include data logger results in monthly CAM report	4-Jun-22	Teddy/Joel	Next LD Mtg	<b>COMPLETE</b>
Issue request to John Ingemi to instruct CAM/LLCC Maintenance to document Dam inspections and maintenance actions in accordance with the Dam O&M document.	4-Jun-22	Teddy	w/o June 8	<b>COMPLETE</b> Work Order document contains maintenance schedule based on the Dam O&M document that could be utilized
Coordinate with Roger on applicable escalation/inflation factor that should be applied to Capital Projects values	4-Jun-22	Teddy/Dennis	w/o June 8	<b>COMPLETE</b>

## Lake/Dam Committee Action Item Status

As of: 30June2022

Commitments & Action Items	Date Assigned	Assigned To	Due Date	ECD / Status
Obtain meeting minutes for Cranberry Creek SWDS Field Trip/meeting discussions	4-Jun-22	Teddy	August LD Mtg	Post field trip meeting/discussion held in Crows nest with Lake Advocates (Harry/Rob) and Ken Martig. Pat and Roger drafted minutes; under review by LA and Ken Martig. LA's recommendations added to "Technical Monitoring Rpt & Mgmt Actions" (June 2022 update). Follow-up with Roger on Ken's comments.
Followup with Roger to obtain Ken Martig's recommendations to DSO response regarding requirement to continue to exercise Dam drain valve or obtain capability to quickly drain Lake Limerick with pumps or siphon system.	30-Jun-22	Dennis	August LD Mtg	
Draft up a "Help Needed" for the Lake Patrol Captain replacement to post to the LLCC website and FB page.	30-Jun-22	Dennis	w/o July 4	
Followup with Roger on Buoy Budget for 2022	30-Jun-22	Teddy	w/o July 4	
Followup with Roger on Leprecaun Core Samples and IEH control processess	30-Jun-22	Teddy	w/o July 4	
Followup with Roger to obtain Lake Advocates assessment of the April/May Lake water samples results from IEH	30-Jun-22	Teddy	w/o July 4	
Develop framework/outline for an overall Lakes, Parks and Dams management plan	30-Jun-22	Brian	August LD Mtg	

## Lake/Dam Committee Action Item Status

As of: 30June2022

Commitments & Action Items	Date Assigned	Assigned To	Due Date	ECD / Status