



BEAR VALLEY SPRINGS ASSOCIATION

Lake Quality Advisory Committee Agenda

Location: Monday, October 2nd, 2023, at 6PM Whiting Center-Green Room & ZOOM

Zoom link <https://cccconfer.zoom.us/j/91833309216>

Call to Order at: 6:02 p.m.

Closed at 6:40 p.m.

A. Attendance:

Voting Members: X Fred Hicks, Chair X Kimberly Clow ☐ Rick Flores ☐ Jane Custer X Jeff Gadzia ☐ Alisha Loken ☐ Andrei Karapetian ☐ Scott Ostrem, Scribe X Paul Garibaldi

Staff (Non-Voting): X Ashley Krempien, Director of Recreation X Butch Reyburn, Board Member

B. Approval of Agenda – Please send any additions or questions **Motion to approve agenda by Kimberly Seconded by Paul unanimous approval**

C. Approval of Minutes August minutes were emailed to the committee **Motion to approve agenda by Paul Seconded by Kimberly unanimous approval**

D.

E. New Items:

1. Committee membership update: Jeff Gadzia has accepted a placement on the BVSA board as Butch and Fred are also on the BVSA board, Butch will speak with Anita about Jeff remaining on the committee as long as Jeff does not comment on board items that would be discussed at the LQAC.
2. Lake Levels-Fred - The lakes remain very high with both lakes being just over a foot below full pool. Effluent water use has been discontinued for the month of October. By discontinuing effluent water use BVSA will save approximately \$9,000 for the month and this will create an additional \$9,000 in holding capacity within Four Island Lake by using lake water instead of effluent water. The realized savings for the month will total \$18,000. I anticipate that this winter we will lose a considerable amount of water over the dam. Jacks hole has water which cannot currently be transferred due to algae that has accumulated on the surface and clogs the intake on the transfer pump. Overall for the year water transfer practices between the lakes improved considerably and resulted in improved levels between Cub, Four Island, and the 7th hole pond
3. Water Quality - Fred - Orthophosphate remains high within Cub Lake so starting this month Solitude will be applying some of the remaining phoslock that we have on hand to bind the orthophosphate. Four Island remains in good shape. The downside is we anticipated a five to ten year turn around with the Phoslock treatment and we only got three to three and a half years in Cub Lake. Jeff asked about any ideas for the potential cause of the increase in orthophosphate in Cub Lake. Fred indicated that the spike occurred during a time when there was no runoff so he believes grass clippings, and sediment/soil from the bottom of Cub Lake could be a contributing factors.

The algaecide treatments have worked very well throughout the summer and kept the lake swimmable for the entire summer season. Moving forward Fred felt that from a cost benefit analysis perspective algaecide/enzyme treatment to improve the water quality are more beneficial than treating with Phoslock to bind the phosphorous.



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	<p>We are moving into winter and will switch to winter sampling this month. Butch asked about who will be updating lake updates for ebuzz and need to be updated. Fred indicated that we no longer have a social media person to maintain the postings. Ashley and Fred will work on updating the lake closure document.</p>
4.	<p>Habitat projects update- Starting in October Fred will coordinate with Brandon and Casey to begin stabilizing the east side shoreline along Cub Lake with $\frac{3}{4}$" gravel near the boat dock, and non-potable water discharge pipe. This will keep the shoreline from eroding and will provide spawning habitat for the Fish within Cub Lake. Fred plans to continue the Christmas tree habitat, and Four Island spawning habitat projects this winter.</p>
5.	<p>Fish remediation update Addendum A – Fred - Bullheads continue to remain around the aerators within Four Island Lake. Fred has been harvesting the Bullheads using a cast net. Fred anticipates switching to the hoop nets sometime within October. As soon as the fish leave the aerators, he will switch to the hoop nets. The schools are getting smaller but lots of bullheads remain. To date just under 32,000 pounds have been harvested since May of 2022. The golden shiners are doing exceptionally well and showed very good recruitment for the season. Some of the Golden Shiners schools are as large as half of the green room 20'*20'. Ashley asked if the Golden Shiners were good fish. Fred responded that they are the fish which everything in the lake needs to eat to grow larger. The Largemouth bass which were stocked this June has some of the larger fish approaching 11 to 12 inches and the smaller fish around 9 inches. 3" to 7" Black Crappies have been caught within Four Island with the nets proving that there are still crappies remaining in the lake even though they were not stocked. Butch asked if all the hoop nets have been received from last years order. Fred commented that they have all been received and are safely stored at Mountain View Consulting Group waiting for deployment this fall.</p>
6.	<p>Fish program outreach -Fred – Butch volunteered/cooked for the final casting for recovery event which was successful, and the attendees enjoyed the fishing and camaraderie. Casting for recovery will be discussing at their fall meetings if they would like to continue or how to move forward and increase their member participation. Many residents have been asking Fred about holding an intro to fly fishing class. Fred will work with Ashley Krempien to try and put something together for next season along with the two planned intro to fishing classes to be offered in April with follow up classes for participants and their children. Two camping events are being planned for 2024. Boy scouts also requested if we could help them, and we offered a fall one day session. Jeff commented on making sure Fred doesn't get burnt out with too many programs, as Fred tends to overcommit. One of the resident fishing Kids Logan has caught a 7 lbs 6 oz largemouth from Cub Lake. Paul asked about the fish tagging program; Fred commented that several Catfish and Largemouth have been tagged. Fred will be taking the catfish Derby prize winners out for their two fishing trips on Cub Lake to hopefully tag more fish this fall. Fred will also try to coordinate with Andrei, and Marco to net and move Golden Shiners from Four Island to Cub Lake in November. This will provide more needed baitfish into Cub Lake and result in a significant realized savings for the association.</p>
7.	<p>Plants – Fred/Rick – Over half of Fred's September was taken up with the water lily split. The plants have proven to be very viable and do very well when they are planted directly into the soil. This year Fred had the 7th hole pond drained prior to splitting the plants within the pond. This process took approximately one day to empty and one day to fill using the BVSA water pump which is stored at Jacks hole. Approximately one third of the plants within the pond were split with the help of Rick and Paul. Butch loaned his flat bed trailer to the cause which made the dirt collection and plant transportation considerably easier. Next year Fred will cut and remove the leaves and stems while water is still in the pond. He will then drain the pond and split the plants. Next year</p>



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	<p>the planting trays along the road at Cub Lake will also be filled with dirt after the plants have been placed within them as this proved the fastest way to accomplish the task during this year's split.</p> <p>Wwell over three hundred plants were split from the 7th hole and the overgrown trays along the road at Cub Lake. These plants were placed along the east side, road, and veteran's memorial at Cub Lake. Approximately 30 plants were placed into the closed area of Four Island Lake next to the 7th hole. The realized savings for BVSA was between \$12,000 on the high side (\$40.00 a plant), and \$6,000 dollars (\$20.00 a plant). Next year Fred will work with the garden club to sell excess water lilies from the trays at Cub Lake during the garden clubs annual pant sale. Jeff commented that the realized gain from nutrient uptake and overall appearance can't be placed into a dollar amount. As the plants also reduce the cost of chemicals which don't need to be placed into the lakes because the plants are reducing the available nutrients within the lakes. We are beginning to run out of prime aquatic real estate when planning for future plant splits.</p> <p>Butch mentioned that the equestrian center could benefit from excess water lilies. Fred will coordinate with the equestrian center. Fred will work with Doug and Brandon to increase sunlight reaching the pond which will help the lilies grow.</p> <p>Fred has worked with Doug on the equestrian side and agreed to take the damaged horse troughs, and feeders to use as a base for planting lilies in deeper water next year. These troughs will be placed onto stacked pallets sunk in deeper water and will then be planted with lilies to increase our viable underwater plant real estate. This provides habitat, and underwater plants, for all the aquatic animals and birds that utilize the lakes.</p> <p>Butch asked if any nurseries would be interested in selling the excess water lilies. Fred indicated that he is a little hesitant because he believes nursery plants need to be certified for resale within California.</p> <p>Tuesday Plant cleanup for October will be taking place at Four Island Lake. As the Cattail harvest will be at the top of Fred's to do list.</p> <p>Jeff's donated eel grass is doing very well and is growing along the shore, as well as on an underwater hump within Cub Lake that was planted this summer.</p>
8.	<p>Halloween events- Fred would like volunteers for the trunk or treat Halloween event this year October 28th from 4 pm to 8pm. We will use the rest of the candy from July 4th at this event. Fred also asked for suggestions as to what he should dress as this year. Ashley suggested a water lily outfit, Fred said that could be a really hairy but he would try.</p> <p>Fred is working with Ashley to offer a new trick a fish after school program for kids this October. For \$10.00 enrolled kids will each be provided with three clear lure blanks and paint markers so they can color their own fishing lures and then hopefully trick a fish into biting one of them the next time they go fishing.</p>
9.	<p>LQAC Volunteer shirts/vest options Ashley Krempien will be placing an order in November and the LQAC will place our shirt order with her. Each member will receive a shirt and we will purchase vests that Fred will hang on to and distribute at LQAC events and workdays. Butch asked if the money will be coming from the budget. Fred said the money was budgeted for the year. Butch also asked if individuals can donate for the cost of the</p>



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	shirt they will be given, Fred said donations would gladly be accepted and deposited back into the Association account. The group felt that blended cotton was the way to move forward.
10.	Committee member comments and questions-none
11.	Visitor Comments and Questions- Fred is still waiting for a response from Veronica Miller/Wildlife coalition regarding keeping Jacks Hole full year-round. Butch asked that if Fred does get a response to inform the individual to please contact the main office so the Board can address the issue. Paul mentioned that Jacks hole does look good with the water that is currently in it. Fred agreed and said that if Jacks hole could be made deeper it becomes far easier to keep water within it year-round. Consensus from the committee was that there were two lakes that have water a short distance from Jacks hole for the Birds to utilize for the time being.

F. Follow-Up Items: 2 items

1.	Bear Tracks articles November will be the Cubs campout recap, December will be Christmas tree habitat, and Fred asked if someone would like to write an article for January Bear Tracks. There were no volunteers.
2.	Update LQAC purpose to include required volunteer work shifts for LQAC members.

LQAC 2023 scheduled meetings occur at 06:00 PM Pacific Time (US and Canada): March 6th 2023, Apr 3rd 2023, May 1st 2023, Jun 5th 2023, Aug 7th 2023, Oct 2nd 2023, Nov 6th 2023, and Dec 4th 2023.



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Addendum A Fish Remediation

Fish capture in pounds

Netting Monthly Overview

Four Island

October 1/5 of the month (Hoop Netting)	280.00
November full month (Hoop Netting)	1,731.00
December 1/2 month (Hoop Netting)	573.00
January full month (Hoop Netting)	4,107.00
February 5 days (Hoop Netting)	210.00
March full month (Hoop Netting)	2,100.75
April full month (Hoop Netting)	483.00
May Full month (Hoop Netting)	209
June Full month (Hoop & cast netting)	2167
July Full month (Cast netting)	4390
August partial (Cast netting)	240
September partial month (Cast netting)	
Netting harvest to date	18,880.75
Fish harvested between May of 22 to Oct 22	13,000.00

**Total fish Harvested in pounds from Four Island between
May 1, 2022, to May 31st, 2023**

31,880.75

Cub Lake sampling 15 nights 1 full set with 2 nets 4-24-23 to 5-25-23

1721 Crappies removed all same size	860.50
80 bluegills all transferred to Four Island 68 were 8" and over	40
7 Largemouth bass released	13
12 large golden shiners	2
5 really large Bullhead removed	11.50
Total fish Harvested in pounds from Cub between April 24, 2023, to May 25, 2023	927