

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

April 2011

1. Dam Inspection report for LVPOA board meeting 4/19/2011. This is the first report by Mike Wall, LVPOA Dam Operator.
 - a. The approximate water level on 4/19/2011 is 391'11".
2. Main Dam
 - a. A visual inspection of the Main Dam on 4/19/2011 reported no abnormal or unusual conditions.
 - b. Water was flowing through the system as intended and expected.
 - c. There seems to be some increase in mole activity along the dam which will be monitored on a regular basis.
 - d. There was evidence of motorized activity on the dam, resulting in minor rutting on the top of the dam. Additional seeding this spring in this spot and in others where the grass was killed as a result of the removal of cat tails may be needed.
 - e. Jeff Chant of Chant Landscape & Mowing was contacted and requested to perform the cleanup and removal of brush, trees and trash from the Main Dam gorge. He will conduct this activity in June after the ground dries up.
 - f. Additional gravel may be needed on the boat ramp drive to prevent erosion.
 - g. Additional gravel/rocks may be needed around the north boat ramp.
3. Closure Dam 1
 - a. Closure Dam 1 was visually inspected on 4/19/2011. No unusual or abnormal conditions were reported. Additional rocks and cement may have been added to the rock weir.
4. Closure Dam 2
 - a. Closure Dam 2 was visually inspected on 4/19/2011. No unusual or abnormal conditions were reported.
 - b. A large log that had been sitting in front of the culvert has been removed. My thanks to whoever got to this before I did.
 - c. Additional rocks along the bank from the lake to the culvert should be considered. This would stabilize the bank to prevent erosion.
 - d. Additional seeding along the bank and on either side of the road leading to the culvert should also be considered.
 - e. The additional property on either side of the channel leading from the lake to the culvert should be left in a natural state.

Respectively submitted by Mike Wall, 4/19/2011

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March 2011

Dam Inspection for March 15, 2011 Board Mtg.

3/??/11 ??:??am Recorded Lake Level for this month is 79'?"

1. Monthly visual inspection completed.

2/18/11 4:15pm..... Keith Putnam (Trapper 989-834-2334) trapped 37 muskrat during the 2010 season. He returned gate key #234 that he was given to access LVPOA property while trapping.

2/18/11 3:35pm..... Lake Level 790'9"

- The ice has melted back from the Main Dam Riser and away from the stoplogs. The second stoplog thought to have been broken by the lake ice, had not been broken. It had only been pushed out of position. The top three stoplogs were pulled, inspected and appear to still be in working order. They were cleaned of zebra mussels and repositioned. It is expected that a minimal amount of water will flow through/around the stoplogs until they have reset themselves.
- The water is starting to approach the new C2D culvert but is still not close enough to begin to flow through.

2/15/11 7:00pm..... Jon W. Morrison, Deputy, Clinton County Drain Commissioner's was at the February Board Meeting and said he would check the large pieces of concrete used to line the ends of the new culvert that replace the old rusted out culvert at C2D (under Peninsula Way.) Some of the pieces used were so large that they made pockets that rodents could borrow under.

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February 2011

Dam Inspection for February 15, 2011 Board Mtg.

2/13/11 11:30am Recorded Lake Level for this month is 790'8"

1. Monthly visual inspection completed. The Main Dam Riser stoplog, third from the top, is broken and allowing water to flow into the Riser. The broken stoplog will be replaced when the ice has thawed enough to remove it. There are two replacement stop logs.
2. Snowmobilers continue to drive crossing the west end of the dam and along the top of the dam but are not accessing the dam from Price road.
3. No water has been flowing through the new C2D culvert under Peninsula Way road.

2/6/11 11:00am..... The opening areas at the west end of the dam that is being accessed by snowmobiles has been blocked by logs and brush. Snowmobiles are also crossing over the C1D from the overflow pond. The points of access have been blocked by brush.

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Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

January 2011

Dam Inspection for January 18, 2011 Board Mtg.

1/16/11 11:00am Recorded Lake Level for this month is 790'8"

1. Monthly visual inspection completed. The Main Dam Riser stoplog, third from the top has broken by the ice again this month. The broken stoplog is allowing water to flow through. It will be replaced with one of the new stoplogs. Snowmobilers continue to drive crossing the west end of the dam and along the top.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

December 2010

Dam Inspection for December 2010 No Board Mtg.

12/27/10 4:00pm..... Recorded Lake Level for this month is 790'8"

1. Monthly visual inspection completed. The Main Dam Riser stoplog, third from the top has been broken by the ice. The broken stoplog is allowing water to flow through. A new stoplog is needed. Snowmobiles have been crossing the west end of the dam.

12/31/10..... New stoplog was installed.

12/30/10..... Material was purchased to make 3-new stoplogs for the Main Dam Riser. One will replace the broken stoplog and two will be kept on the polebarn as backup to be use when needed.

- 2 - 2"x6"x144' cedar planks \$48.34
- 3 – Sets of nuts, bolts and washers \$68.21

12/27/10 5:00pm..... Snowmobiles from the house at 9355 Price Rd have been using the west end of the LVPOA Dam to access the lake. No one was home so the following notice was placed on the front door.

NOTICE TO ALL SNOWMOBILERS

December 27, 2010

*This is meant as a polite reminder that
NO UNAUTHORIZED MOTORIZED VEHICLES
are allowed on the Lake Victoria Dam.*

It has come to the attention of the LVPOA Board that snowmobiles have gone through the Price road ditch and across the west end of the dam to access the lake.

Upon inspections it is clear that the tracks lead back to this home at:

9355 PRICE ROAD

Please be informed that if you are a LVPOA Member you may access the lake by going to the gated access road at the east end of the dam. Use the access road that leads into the boat ramp. Snowmobiles can enter the lake using the access road, parking area and the boat ramp at both ends of the lake.

If you are not a LVPOA Member please be informed that LVPOA is a private association and access and use of All LVPOA property is for members in good standing and their guest.

If you have any questions or would like to address this notice in person please feel free to attend the next LVPOA Board meeting.

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November 2010

Dam Inspection for November 16, 2010 Board Mtg.

11/14/10 2:00pm..... Recorded Lake Level for this month is 790'3"

2. Monthly visual inspection completed. The dam system appears to be intact and operating properly. No visual problems have been observed at this time.

11/09/10..... Keith Putnam (Trapper 989-834-2334) will trap for muskrat during the 2010 season.
He was given gate key #234 to access the lake and boat ramps while he traps.

10/19/10..... Received the LVPOA gate key #234 that was given to Warren Malkin (Victor Township Supervisor) 10/04/10.

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Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

October 2010

Dam Inspection for October 19, 2010 Board Mtg.

10/17/10 6:55pm..... Recorded Lake Level for this month is 790'3"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly. No change or visual problems have been observed at this time.

10/07/10 C2D Peninsula Way Culvert was replaced. The CCRC was unable to raise the downstream end of the culvert to the 791'9" elevation because the Consumers Power gas line was placed above the culvert instead of below. The original 24" metal culvert was replaced with a 24" smooth lined plastic culvert.

10/04/10 8:00am..... Put LVPOA gate key 234 in the Victor Township drop box. Ron Armbrustmacher will get it from Warren Malkin (Victor Township Supervisor).

10/03/10 11:25am..... Lake Level 790'3"

- The lake level has been lowered 18" as planned. The MD Valve has been closed.
- Possible Zebra Mussels on the sides and stop logs of the MD Riser.

10/02/10 6:30pm..... Lake Level 790'8"

10/01/10 6:30pm..... Lake Level 790'11"

- Conducted the Yearly Primary Spillway Valve Test. The valve is operating correctly.

- The MD Primary Spillway Valve has been opened 20.5" to begin the lowering of the lake. The valve will be left open until the lake level reaches 790'3" to assist in the Peninsula Way Culvert replacement and other LVPOA yearend maintenance projects.

09/24/10 10:52am..... Talked with Ron Armbrustmacher (CCRC 989-224-3274). The Peninsula Way Road culvert is scheduled to be replaced within the next two weeks. It will be replaced with a 24" plastic culvert with a smooth interior liner. The inlet on the lake side will be placed at the same elevation as the original culvert. The outlet end will be positioned to be at the elevation of 791'9". This will eliminate the need for a weir to be installed before the culvert to hold back the lake water. The culvert will act as the weir itself. The gate key 234 will be given to Warren Malkin to give to Ron to enable him and his crew to get to the MD Riser to calculate the 791'9" elevation. The key is to be returned when the project is completed.

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Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

September 2010

Dam Inspection for September 20, 2010 Board Mtg.

- 09/20/10**..... Recorded Lake Level for this month is 790'11"
1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.
 2. Begin a discussion about weed control and the mowing of the dam.
- 09/13/10..... A printed special notice was taped to the mailboxes of lake shore members. It informed members that the lake level would begin to be lowered starting 09/01/10 as part of the yearly maintenance procedure. The regularly scheduled spillway valve test will be conducted at this time also.
- 09/13/10 6:00pm..... Met with Chad (First Choice 517-651-2541) to begin quote process for the removal of brush along the Price road ditch and the spillway notch on the backside of the main dam.
- 09/12/10 1:00pm..... Met with Steve (Nature's Way 517-651-6430) to begin quote process for the removal of brush along the Price road ditch and the spillway notch on the backside of the main dam.
- 09/12/10 11:00am..... Lake Level 790'11"
- 09/12/10..... Black lake level gauge stripes were painted on the north and east side of the main dam riser marking three inch increments. Black eight inch tall numbers were painted on the east side marking the 792, 793 and 794 levels. The metalwork modified metal work was also painted.
- 09/10/10 8:41am..... Renee (Green Planet 989-205-9526) called to say they would not care to quote on the job to remove the brush along the Price road ditch and the spillway notch on the backside of the main dam. It's not the type of work that they do.
- 09/??/10**..... Jim Elkins and Tim Arrnst (Worthy Acres 517-819-4447) removed the crushed concrete from the end of the boat launch. It was determined by the board that the material used was not the best choice and it had to be removed after pieces of rebar were found still attached to some of the chunks of concrete. The material removed was mixed in with the rocks on the auxiliary spillway.
- 09/1/10..... Kim Dutcher will be monitoring the dam from 09/02/10 to 09/06/10.

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August 2010

Dam Inspection for August 17, 2010 Board Mtg.

08/17/10 5:45pm..... Recorded Lake Level for this month is 791'2"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.

08/08/10 6:00pm..... Foam and Caulk was installed to slow/stop the flow of water around the east side of the stop logs.

08/08/10 8:00am..... Purchased Paint/Supplies to create a lake level gauge and to paint some of the metalwork. Foam and Caulk was also purchased to fill the gap on the east side of stop logs to slow/stop the flow of water around the logs. Receipt for this purchase will be turned in at the board meeting for the reimbursement of \$31.29 to Duane Albright.

08/07/10 8:50am..... Lake Level 791'4"

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Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

July 2010

Dam Inspection for July 20, 2010 No Board Mtg.

07/20/10 11:00pm..... Recorded Lake Level for this month is 791'5".

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.

07/05/10 8:00am – 12:30pm Cut and trimmed tall weeds along the shore of the MD and C1D.

Receipt for the purchase of gas will be turned into the board for the reimbursement of \$13.83 to Duane Albright.

07/05/10..... Talked with Hail Beatty about lake access for his lot #30 across LVPOA property and possibly having a stake survey done to identify the east end of the dam. Hail feels that lot #30 should have lake access. He was told it would be reviewed.

07/03/10 8:00am – 9:30am Cut and trimmed tall weeds along the shore of the MD and C1D.

07/03/10 7:50am..... Lake Level 791'6"

06/30/10..... The cattails along the face of the dam were sprayed by PLM to eliminate them.

06/24/10 12:53pm..... Mailed 2010 Dam Inspection Report to Hydrologic Studies and Dam Safety Unit, Water Management Section, Land Water Management Division, Michigan Department of Natural Resources & Environment, PO Box 30458, Lansing Michigan 48909-7985. Receipt for the purchase of postage will be turned into the board for the reimbursement of \$2.92 to Duane Albright.

06/24/10 12:34pm..... Sent an email to Gary Croskey asking if he had a chance to look into my questions I had emailed him about on 6/15/10.

06/24/10 11:38am..... Called Bryon Lane, P.E., Chief, Hydrologic Studies and Dam Safety Unit, Land Water Management Division 517-241-9862 and ask if the Dam Safety Inspection Report should be sent using registered mail so LVPOA had a record of delivery. Bryon said no. I asked if he could email me a conformation when he got it. He said the office is short staffed but if I put a note on the cover sheet I should receive a notice. I put the request in large red letters across the front of the cover sheet.

06/??/10 Tim Arrnst (Worthy Acres 517-819-4447) reseeded along the top of the dam and tilled and seeded along the fence at the east end.

06/17/10 9:15am..... Got permission from Hail Beatty for Worthy Acres to access the east end of the dam through his property.

06/16/10 5:09pm..... Met with Tim Arrnst (Worthy Acres 517-819-4447) at dam to review the areas to be reseeded along the top of the dam and the area to be tilled and seeded along the fence at the east end. He had quoted the work for \$285.00.

06/15/10 3:07pm..... Email sent to Gary Croskey.

Hello Gary,

Thanks from everyone at Lake Victoria for all you work. The PDF files will be perfect for our digital library. I will watch for our hard copy and submit them to the DNRE as soon as they arrive.

We had talked about getting a PDF file of the 2000 Dam Inspection when we last met. I was wondering if you have had a chance to see if you had a copy you could send my way. That's the only report I'm missing from the collection.

I have a question about recommendation #4 on page 4 of the report. What is a "staff gage"? Is it measurement markings that should be painted on the side of the Principal Spillway or is it something that I need to have constructed and installed?

The last sentence of the first paragraph on page 6, says "LVPOA operates the principal spillway's slide gate when the impoundment level reaches approximately 792.6 feet." I was under the impression that we no longer had to operate the slide gate since the modification and that the flow of water out of the lake was now self regulating. My question is if we should be opening the slide gate as part of our operational protocol when and if the elevation reaches 792.6?

On page 31 under the head Operation & Maintenance Data you mention that the

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“1970 Report had ‘Operational Procedures of Outlet Works During Flood Events.’”
That element was missing from my copy of the 1970 Dam Report. I have also found other places that make mention of it but I have yet to locate a copy of it. Would you by chance have a copy of the original procedures?

I was glad to have had the opportunity to assist with the inspection; it was a great learning experience. When I see Meg Dutcher tonight at the board meeting I will check with her about the balance owed to you.

Again Thanks for all your work. Great Job.

Duane Albright

redonred82@yahoo.com

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Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

June 2010

Dam Inspection for June 15, 2010 Board Mtg.

06/14/10 1:00pm..... Recorded Lake Level for this month is 791'9".

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.
2. Received quote from Worthy Acres Sand & Gravel 819-4447 to over-seed 7000sp.ft. (70lbs of seed) of the dam where the grass has not started to grow or is very thin. The price includes rototilling and the seeding an area located on back side of dam on the other side of the fence at the east end of the dam. Total \$285.00
3. The MD and C1D have been mown.
4. Working with Renee Gutzman (Water Quality) to set up a program to control the cattails along the face of the dam.
5. LVPOA will be receiving two hard copies of the 2010 Dam Inspection report, one of which will be submitted to the Michigan Department of Natural Resources and Environment (DNRE) as required by Michigan's Dam Safety Act. Gary Croskey can now be paid the balance due (\$1,000.00) for his services. PDF files have already been received by the LVPOA. The report will be available at the LVPOA website.
6. A plan will now be developed to address all recommendations noted in the 2010 Dam Inspection report.

06/14/10 11:17pm..... Received email notice and PDF files of the official 2010 LVPOA Dam Inspection from Gary Croskey.

From: "Gary Croskey" croskeyg@gmail.com
Subject: Dam Safety Inspection Report
To: "Duane Albright LAKE VICTORIA" redonred82@yahoo.com
"Kim Dutcher LAKE VICTORIA" gemplad@gmail.com
"Meg Dutcher LAKE VICTORIA" meg.dutcher@gmail.com
Date: Monday, June 14, 2010 11:17 PM

Duane,

Attached is the report, transmittal letter and final invoice in pdf.

Hard copy will be in the mail to you tomorrow.

As I said to Kim, LVPOA should be commended on doing a great job improving the safety of the dam.

The website, O&M plan, and your diligent effort to care for this dam is clearly evident.

Again, its been a pleasure to be of service to you.

Gary F. Croskey, P.E., LLC
TX: 231-334-6585
Cell TX: 312-401-1323

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Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

May 2010

Dam Inspection for May 18, 2010 Board Mtg.

05/18/10 3:11pm..... Recorded Lake Level for this month is 791'11".

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.

05/18/10 11:52am..... • A large pile of leaves was removed from the east end of C1D. The material was spread out in an area along the trail by the pedestrian opening at the base of the C1D fence.

- The crushed concrete on the MD adjacent to the Riser that had been spilled during the dam lining project was raked and removed so it would not be thrown by any mowing equipment. Both projects completed by 3:11pm.

05/18/10 9:35am..... Tim Arrnst (Worthy Acres 517-819-4447) will look at the MD and C1D and will quote on seeding the areas where the grass has not started to grow after the dam lining project.

05/17/10 7:37pm..... Dave Dobbs (Trapper 989-743-6365) would like to trap muskrats around Wolf Lake. He was told that our current trapper Keith Putnam will have first dibs on any trapping but if at some point Keith does not care to continue we will contact him. Dave was told that his name and number will be kept on file.

05/17/10 9:05am..... Contacted Wayne Baum (All Terrain 517-655-5448). When asked, Wayne agreed to be LVPOA's Emergency Excavating Contractor (EEC) and supplied a list of contacts numbers that can be called during non-business hours if needed. All Terrain is able to supply heavy equipment and materials for repairs in times of emergency situations. Wayne was made aware that the list of contacts would be given to Clinton County 911 as part of the LVPOA Action Plan that is being developed.

Contact All Terrain employees in this order:

#1 Steven Simons (517) 202-2751

#2 Tim Bliesener (517) 744-1812

#3 Wayne Baum (517) 202-0860

05/13/10 1:23pm..... • Gary Croskey conducted the 2010 Dam Inspection/Elevation Survey. Meg Dutcher, Kim Dutcher and Duane Albright assisted. The signed contract and a \$300.00 retainer fee was given to Gary. He will be given the remaining \$1,000.00 of the \$1,300.00 when the final dam inspection report is delivered in approximately four weeks.

- NOTE: ***During the inspection the Dam Inspector (Gary Kroskey) reiterated that because of the modifications to the Dam Riser the valve and stop logs no longer need to be used to regulate the water level. This includes times of heavy rain fall. The lake is now self regulating. Opening the valve does not increase the flow of water through the Dam Riser. The dam is designed to hold the water until it reaches the height of the Auxiliary Overflow and then exit the lake using this area. It is still the responsibility of LVPOA to monitor the dam during times of high water level to watch for signs of potential problems.***

05/13/10 4:15pm..... James Fyvie and Steve Lehman requested a list of Board Members and contact numbers. A PDF file list was sent to them as the first step in developing our plan.

05/13/10 2:23pm Lake Level 792'0". It is noted that leaves are being piled at the east end of the dam. The pile will need to be moved. Also leaves and brush are being dumped at the end of Peninsula Way on east edge of turn around. It is becoming a very large pile.

05/12/10 11:45am..... Board Members Duane Albright met with Scott Smith (DNR Officer in charge of Lake Ovid Dam System 517-651-6217, smiths31@michigan.gov) Scott gave a tour of the system and reviewed the Sleepy Hollow State Park, Lake Ovid Dam Emergency Action Plan.

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- 05/11/10 10:30am..... Board Members Duane Albright and Meg Dutcher met with James Fyvie (911 Administrative Director 989-224-3580) and Steve Lahman (Clinton County Emergency Manager 989-227-6595 office, 989-640-3762 cell, lehmans@clinton-county.org) to discuss the creation of an Action Plan for the Lake Victoria Dam in the event water begins to flow over the Auxiliary Overflow or a catastrophic event takes place.
- 05/09/10 11:10am..... Gary Kroskey scheduled the dam inspection for May 13, 2010.
- 05/07/10 4:56pm..... Duane Albright LVPOA Dam Operator review the quotes with Clint Hawks LVPOA President who agreed with the recommendation to use Gary Kroskey to conduct the 2010 State Dam Inspection. Mr. Kroskey was then notified.
- 05/01/10 11:40am..... Lake Level 791'8" Visual inspection conducted. No problems observed. Removed some logs blocking the flow from C2D to the overflow pond.
- 04/28/10 2:45 pm.....
- Talked with James Fyvie (911 Administrative Director 989-224-3580) and Steve Lahman about developing an Action Plan for the dam. The idea is to create the ability for the Dam Operator to make one call using the 911 system to alert and activate the appropriate agencies and personnel in the event water would begin to flow over the C2D or C1D Auxiliary Spillway. The plan would create the protocol that would be kept on file with 911 for such an event. This would also serve as an Emergency Action Plan (EAP) for a catastrophic event even though Lake Victoria is not required to have an EAP because the dam has a Hazard Potential Classification of LOW.
 - A meeting has been scheduled for May 11, 2010 at 10:30am at the EOC office (on the garden level) at the Clinton Court House in St. Johns.
- 04/28/10 11:57am..... Talked with John Tanner to ask if Rowe Professional Services Company wanted to quote on the dam survey. John said he would e-mail a quote by the first part of next week.
- 04/28/10 11:29am..... Talked with Shawn Middleton to ask if the Spicer Group wanted to quote on the dam survey. Shawn said the quote was in the mail and that he would e-mail a copy today.
- 04/14/10 Received dam inspection quote from Gary Croskey. The survey requirement is not noted in the quote. He needs to be contacted and asked to include the survey in the quote.

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April 2010

Dam Inspection for April 20, 2010 Board Mtg.

04/18/10 4:15pm..... Recorded Lake Level for this month is 791'11".

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.
2. Grass on the Main Dam and Closure 1 Dam is coming in nicely. There are some areas that may need to be reseeded still.
3. Have been contacted by Gary Croskey by email with a proposal. Will be contacting him about some question and possible adjustments. Also received an email notice that Rowe Professional Services will be preparing their quote and we should be seeing it soon. Have not heard from Spicer Group yet.

04/10/10 5:00pm..... E-mail request for dam inspection quotes sent to Gary Croskey, Rowe Professional Services and the Spicer Group.

04/10/10 7:45am..... Lake level 792'1" Stop logs have been reinstalled.

04/08/10 10:23am..... Lake level 792'2" Talk with Steve from Professional Lake Management while he was out conducting water sample test. Because the lake was just treated and the rain forecast shows no more rain for a while, the stop logs will be replaced even though the lake level is high. The idea is to slow the water from leaving the lake to help keep the chemical treatment in the lake.

04/07/10 5:00pm..... Lake level 792'4" Flood warning in effect. Second stop log was removed.

04/06/10 7:00am..... Lake level 792'2" Flood warning in effect. One stop log was removed.

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March 2010

Dam Inspection for Mar 16, 2010 Board Mtg.

3/16/10 4:05pm..... Recorded Lake Level for this month is 792'3". Water is open around the dam riser.

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.
2. Received 2010 Dam Inspection notice from the DNR.
3. Received letters from Gary Croskey and Spicer Group asking to conduct a dam inspection for us. Both will be asked to quote the dam inspection.

03/14/10 1:00pmLVPOA Annual Meeting.

Annual Meeting Outline:

1. Main Dam & Closure 1 Dam

- Rock and Stone Facing
- Auxiliary Overflow Lining
 - a. The Auxiliary Overflow was lined with riprap This project *DID NOT CHANGE the 794'2" Crest Elevation of the Auxiliary Spillway.* Water will still begin to pass when the lake impoundment is greater than 794'2". (*The Crest is two foot five inches above the Lake Operating Level.*)
- Crushed Concrete Ramp Extensions
- Remove of Stumps
- Parking Lot Border & Signage
- Trash Rack Modification
- Vent Pipe Extension
- Spillway Riser Painted
- Chain Link Fence

2. Closure 2 Dam

- Rusted Culvert
- Culvert Replacement
- No Longer a Control Device
- Create Weir

3. Events

- Michigan Dam Owner Workshop
- Yearly Spillway Test
 - a. Primary spillway valve test was conducted Oct. 1 (noted leaking around valve that will need to be address.)
- Lowered Lake Level
 - a. Oct 1st Began to lower water level for fall projects (Oct 14 the valve was closed when the level reached 790'3" – 18.5")

4. Equipment Purchases

- Mower
 - a. 05/30/09 Purchased used 8hp 24" walk behind brush mower from for \$750.00. (Thanks to Mark Langworthy for finding the mower. This saved the association \$2,000.00.)
- Safety Equipment

5. Muskrat Control

- 36 Trapped
 - a. Keith Putnam, Trapper. (LVPOA is in Zone #3. The season runs from Nov. 10 to Jan. 31.)

6. 2010 Dam Inspection

- Inspection & Elevation Survey
- Operation & Maintenance Plan
- Log
- Web Page
- Scanning of Paperwork
- Transferred VHS to DVD

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

7. Projects for 2010

- Replace Spillway Bolts and Adjust Dam Riser Overflow Value.
- Paint Spillway Metal Work
- Drainage Easements
 - a. Working with Jon Morrison Clinton, Deputy with the County Drain Commissioner's Office
- Create 911 Action Plan
- Additional Fencing

03/14/10 11:05am.....Recorded Lake Level is 792'2".

03/01/10 11:00am..... Kim Dutcher sent an e-mail to Jon Morrison (CCDC Deputy) 989-224-5212 in regards to the Price road culvert benchmark elevation. He included an AutoCAD file diagram as an attachment and copied Duane Albright so it could be added to the LVPOA dam records.

02/23/10 12:07pm.....The following is a copy of additional e-mail correspondence with Jon Morrison (CCDC Deputy) 989-224-5212 in regards to the Closure #2 Dam culvert repair/replacement.

From: "Duane Albright" <redonred82@yahoo.com>
Subject: RE: LVPOA Peninsula Way culvert Gary's response
To: Morrison, Jon <MorrisonJ@clinton-county.org>
Date: Tuesday, February 23, 2010 12:07 PM

Afternoon Jon,

Thanks for the info. When it comes to the lake level elevation it's looking like we're all on the same page. As for the Price road culvert benchmark elevation of 769.3, I'm going to ask Kim Dutcher if he knows. If he doesn't I'll go ahead and get a hold of Gary and see if he has something in his records. Kim is a good place to start because he was involve with that dam modification.

Yes, you're right about the lake level. It has returned to the 791' 9" operating level. It is usually lowered at the end of the boating season to allow for the association and home owners to conduct maintenance work at the water's edge. It's not something that we are required to do but we've done it the last couple of years to take care of scheduled work to be done on the dam and the county dry hydrant work.

This year the valve was opened for about a week and then closed on 10/14/09 when the Lake level reached 790' 3" (down 18.1/2"). The plan this year was to close the valve at 189' 9" but we did not need to drop it that far to be able to do our work. The seasonal level is never maintained for the winter it is only lowered long enough for the projects to be completed. Unless we have a reason to reopen the valve it remains closed. During the course of the winter the water slowly returns to the operating level and the Main Dam Riser with its new cutoff maintains the 791' 9" level year round. We try not to lower the water to far or keep the valve open too long because we do not know how much precipitation we will receive before summer when the lake level needs to be back up for the boating season. Because the Riser Cutoff regulates the lake level now the valve is no longer used as our control device. It is still used in extreme cases i.e. during times of flooding or to drop the level for maintenance work.

I'll get back with you as soon as I get an answer to the benchmark question.

Duane Albright

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

02/22/10 4:04pm..... The following is a copy of additional e-mail correspondence with Jon Morrison (CCDC Deputy) 989-224-5212 in regards to the Closure #2 Dam culvert repair/replacement.

From: Morrison, Jon <MorrisonJ@clinton-county.org>
Subject: RE: LVPOA Peninsula Way culvert Gary's response
To: "Duane Albright" <redonred82@yahoo.com>
Date: Monday, February 22, 2010 4:04 PM

Hey Duane,

Got back to the office today and just wanted to make sure that the info I was able to provide at the meeting last week was helpful.

Also, I finally found the info I knew I had saved from when Huron Consultants prepared a plan for modification of the dam's outlet structure back in July of 2007. This info confirms that the normal water level is at elevation 791.75 or as you have indicated 791' and 9", so I am straight on that. The permit also indicates a benchmark at an elevation of 769.3, which corresponds to the "invert of Price Rd culvert" unfortunately I don't have a map clarifying which Price Road culvert invert it is. I thought you or Gary might be able to confirm this for me. Again I'm just trying to make sure all the work we do get's tied back to the dam elevation.

Lastly, as I mentioned during the meeting the water level at the outlet structure appeared to be right at the normal water level elevation as it corresponded to the top of the stop log "stack". This seemed odd to me as I know the practice is to draw the lake level down for the winter and the recent weather doesn't seem as it should have caused any significant rise in the lake level. I know you mentioned something about opening the valve to draw the level down, I guess I was wondering why the stop logs wouldn't be taken out to maintain the level at whatever the winter elevation is intended to be. It's not for my office to make such determination; I'm just sharing thoughts from what I observed. If you are comfortable the outlet structure is doing what it is supposed to do, that's great.

Please follow up on the benchmark as soon as you can and we'll continue to move forward. Take care.

Jon W. Morrison
Deputy
Clinton County Drain Commissioner's Office
Ph: (989) 224-5212, Fax: (989) 227-6449
morrisonj@clinton-county.org

This message has been prepared on resources owned by Clinton County, MI. It is subject to the Internet and Online Services Use Policy of Clinton County.

02/20/10 11:43pm..... Lake Level 791'9" to the top of ice.

Note: Several snowmobiles have been driving on the dam via Price Rd. Pictures of some of the damage have been included in the dam records. Additional fencing along Price road is being discussed to help control access from these areas. Most of the traffic seemed to be limited to the top and Price road side of the dam.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

February 2010

Dam Inspection for Feb 16, 2010 Board Mtg.

2/13/10 11:57am Recorded Lake Level for this month is 791'9" to the top of ice.

1. Monthly visual inspection completed.
 - a. The dam is covered with 6 to 8 inches of snow and appears to be intact and operating properly.
 - b. Some water is leaking from around the MD Riser Valve and will need to be inspected when weather permits.
 - c. An ice dome has formed but does not appear to be restricting the flow of water at this time.
 - d. The top of the riser vent pipe appears to have iced shut
 - e. It has been noted that the bottom of the C2D culvert inlet has rusted and is scheduled to be replaced as part of the roads repaving project. Water is flowing freely through the culvert. No additional changes or visual problems have been observed at this time.
 - f. There are snowmobile tracks on the MD but all are limited to the authorized area of the boat ramp and parking area. *(As of Feb. 14, 2010 there have been several snowmobiles driven on the MD and outside and around the boat launch and parking areas where ORV's are not allowed.)*
2. Recommendation for 2010 Dam Budget program (Total: \$4,900.00):
 - a. \$400.00 to be held in a Dam Inspection Account. At the end of five years there will be a total of \$2,000.00 available to help fund the next dam inspection.
 - b. \$500.00 Dam Consultant fees. Gary Croskey's (Dam Consultant) hourly rate is \$120 per hour plus expenses around \$0.55 per mile. He doesn't think we will use much of his services this year so he wouldn't recommend budgeting any more than \$500.00.
 - c. \$500.00 for mowing.
 - d. \$1,500.00 a tentative amount for this year's required dam inspection and survey. Gary Croskey's (Dam Consultant) also conducts our State Dam Inspection. He said he would include the survey needed this year as part of the inspection if someone can help him. He would charge between \$1200.00 and \$1400.00.
(The 2005 inspection alone cost LVPOA \$1,000.00.)
 - e. \$2,000.00 maintenance.
3. Although LVPOA will not need any funds this year for the Peninsula Way culvert replacement and weir construction, the association should be prepared to earmark some Special Assessment Funds in case LVPOA has to encore some of the costs. By the time the Peninsula Way section of the road is being repaved additional LVPOA assessment funds should be available.
 - a. Working with Gary Croskey's (Dam Consultant) and Jon Morrison (CCDC Deputy) to see if a larger elliptical culvert can be installed when the Peninsula Way culvert is replaced. Gary replied that it is possible and an e-mail was sent to Jon for his review.
4. Confirmed Tim Arrnst (Worthy Acres) had placing the crushed concrete at the ends of the boat ramps. Clint Hawks was given Tim's invoice to pay. Tim plans to drop of the loaner gate key by February 16, 2010.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

02/16/10 10:33am..... The following is a copy of additional e-mail correspondence with Jon Morrison (CCDC Deputy) 989-224-5212 in regards to the Closure #2 Dam culvert repair/replacement.

From: "Duane Albright" <redonred82@yahoo.com>
Subject: RE: LVPOA Peninsula Way culvert Gary's response
To: Morrison, Jon <MorrisonJ@clinton-county.org>
Date: Tuesday, February 16, 2010 10:33 AM

Jon,
I'm sure we could work you into the Public Comment part of the meeting which is right after we're called to order. Should be able to get you on the road pretty quick.

As for the Bench Mark. I'm not sure the best way to write it but it should be the 791-foot, 9-inch elevation. I don't know how accurate the measurement really is. I can tell you that the Best Reference Marker would be the notched cut in the Main Dam Riser. This is the white cement structure at the west end of the Main Dam. It is supposed to have been cut at the 791.9 elevation. It will be the best point of reference.

Is 791.9 understood to be 791-feet, 9-inches?

See you tonight,

Duane Albright
redonred82@yahoo.com

From: Morrison, Jon <MorrisonJ@clinton-county.org>
Subject: RE: LVPOA Peninsula Way culvert Gary's response
To: "Duane Albright" <redonred82@yahoo.com>
Date: Tuesday, February 16, 2010, 8:59 AM

Duane,

Thanks for the updates regarding considerations for the dam. Gary's response is what I anticipated regarding the need for additional flow through the culvert, but we are kind of at that point of it's now or never if the culvert size is going to be changed. So, I'll try and get feedback from the Road Commission up the upsizing as they have yet to respond to my previous inquiry. Our office doesn't really have a preference of whether it is upsized or left as is.

I do have some info that I can share with the Board and would like to do that at the meeting tonight. I'll get with Al, but hopefully I can share that fairly early in the meeting and then head out as I am heading of town for a couple of days starting tomorrow morning.

I do need to get some clarification from you as to the benchmark that is used to determine the normal lake level. You've indicated that level as 791' 9", but what fixed reference point do you use to determine you are meeting this elevation. Also, are you sure it is 791' and 9 inches or is it 791.9', which is the way I typically see such elevation referenced?

Jon W. Morrison
Deputy
Clinton County Drain Commissioner's Office

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

Ph: (989) 224-5212, Fax: (989) 227-6449

morrisonj@clinton-county.org

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

02/14/10 7:04pm..... The following is a copy of the e-mails sent to Jon Morrison (CCDC Deputy) 989-224-5212 and Al Burnie (LVPOA Roads, Building) in regards to the Closure #2 Dam culvert repair/replacement.

From: "Duane Albright" <redonred82@yahoo.com>
To: Morrison, Jon <MorrisonJ@clinton-county.org>
CC: "Al Burnie" <imanetserfur@aol.com>
Subject: LVPOA Peninsula Way culvert Gary's response
Date: Sunday, February 14, 2010 7:04 PM

Good Morning Jon,

I didn't think Gary Croskey would be able to get back to me so fast. Thought I should keep it moving by sharing Gary's comments from his Sunday, February 14, 2010, 9:56 AM e-mail sent to me about the installation of a larger culvert at the Peninsula Way location.

Gary said, "that road culvert, though it passes some flow it's not really needed, but...

I would just let the county road replace at their cost. I'm not sure why the County Drain people are involved unless it's within the an established county drainage district or the Road Commission is seeking their advise.

If you feel comfortable with upsizing, by all means go to

FYI, the amount of flow through a 24 inch at most may be 10-20 cfs depending on some factors."

I believe Gary is comfortable with the upsizing of the culvert which leads me to ask:

- If the County would have any reason not to enlarging the culvert at this time?
- If the County feels a larger elliptical culvert could be installed, what size would you recommend?
- After you've had a chance to review all the information would you also let me know of any additional cost to association for the upgraded material so I can present it to the board for an approval?

I know there is not a lot I can do to help but if there is anything please feel free to e-mail me or call my cell 517-231-0717.

On another note just a reminder that this month's meeting is this Tuesday the 16th at 7:00pm. I know your working closely with Al Burnie also but if there is anything you'd like me to pass along to the board at the meeting just drop me a line. You probable have more meeting than you have time for but I'll still extend an invitation to you to join us.

Thanks again to you and your team for all the work you're doing for LVPOA and Clint County.

Sincerely,
Duane Albright
LVPOA Dam Operator

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

02/14/10 10:10am..... Noted snowmobiles have been driven onto MD. They have entered from Price road by the boat ramp parking area. Tracks run along the top edge of the MD from the parking area towards the west end looping down onto the backside and back up across the face out on to the lake ice.

02/14/10..... The following e-mails were sent to Gary Croskey (Dam Consultant) and Jon Morrison (CCDC Deputy) 989-224-5212, in regards to fees that need to be incorporated into the 2010 dam budget. Also questions were asked about recommendations and an approval for the installation of a larger culvert at the C2D location.

From: "Duane Albright" <redonred82@yahoo.com>
To: "Gary Croskey" <croskeyg@gmail.com>
Subject: Request for 2010 fees and contracts
Date: Sunday, February 14, 2010 2:13 PM

Hey Gary,

Thanks for getting the info back so fast. I like the sounds of your survey/inspection deal and I'm sure the board will too. Your numbers will allow us to get busy pushing pennies around so we're ready to go when the official inspection arrives.

Thanks for the input on the culvert also. A few years ago all the association drains were assigned easements and turned over to the County including the Closure #2 Dam culvert. Most people around here didn't realize that the culvert and area around it is really part of the LVPOA dam system. The County said as long as they were fixing culverts in need of repair, for the upcoming road project, they would do the dam culvert and set up a weir. However they plan to turn that culvert back over to LVPOA after they finish the project which is fine with the board.

I'll keep things moving on this end.
Duane

Duane Albright
redonred82@yahoo.com

From: Gary Croskey <croskeyg@gmail.com>
Subject: Re: request for 2010 fees and contracts
To: "Duane Albright" <redonred82@yahoo.com>
Date: Sunday, February 14, 2010, 9:56 AM

Hi Duane.

For the inspection I would do it for about \$1200 - \$1400 and if you help me I would do the elevation survey as part of the inspection.

I can send you a formal proposal later in March, for I did not get the list of 2010 dam inspections from the MDNRE until last week.

Consultant Services hourly rate will be \$120 per hour plus expenses around \$0.55 per mile. Don't think you will use many services so budget \$500 (if anything).

That road culvert, though it passes some flow it's not really needed, but....

I would just let the county road replace at their cost. I'm not sure why the County Drain people are involved unless it's within the an established county drainage district or the Road Commission is seeking their advise.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

If you feel comfortable with upsizing, by all means go to

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

FYI, the amount of flow through a 24 inch at most may be 10-20 cfs depending on some factors.

From: "Duane Albright" <redonred82@yahoo.com>
To: "Gary Croskey" <croskeyg@gmail.com>
CC: Morrison, Jon <MorrisonJ@clinton-county.org>
Subject: Request for 2010 fees and contracts
Date: Sunday, February 14, 2010 7:20 AM

Good Morning Gary,

I am preparing the 2010 dam budget to present to the board and I was hoping to get a few figures from you. If possible would you be able to e-mail me the costs and any contracts for:

- 2010 Consultant Services Fee
- 2010 State Dam Inspection

The 2005 Dam Inspection Report recommended that an elevation survey be conducted in 2010 and compared to the survey from 2000. Would you be able to recommend a couple of companies for the project?

It has been noted that the 24" culvert at the Peninsula Way Road Closure #2 Dam has a rusted bottom. Our plan is to replace it as part of the county's road repaving project. I have been working with Jon Morrison from the Clinton County Drain Commission and he has asked that we no longer use the culvert as a control device to keep the lake at the 791'9" operating level. To comply all stop logs and fish screens have been removed. In return the county has offered to help us out by constructing a 791'9" weir at the start of the ditch that leads to the culvert. This would allow water above our operating level to flow over freely and eliminate the need for stop logs to control the lake level. The weir will be constructed as part of the road repaving project also. Seeing as we have to replace the old 24" culvert to repair it I've ask Jon if we could we take this opportunity to install a large culvert. Jon said it could be done but because of the limited ground cover between the top of the culvert and the road surface he would recommend an elliptical culvert. He asked that I first contact you to find out if there would be any reason not to replace the 24" culvert with a larger one.

Please feel free to call me with any questions at 571-231-0717 or e-mail me at redonred82@yahoo.com.

Sincerely,
Duane Albright
LVPOA Dam Operator

01/28/10 9:35am..... Call Jon Morrison (CCDC Deputy) 989-224-5212 at his office to let him know the board has approved the adjusted drain easement presented to the board at the January Board Meeting. Jon recommended that instead of placing a second 36" culvert beside the C2D culvert that is scheduled to be replaced when the road repaving is done, that a single large elliptical culvert be used. He asked that I talk with Gary Croskey our Dam consultant to find out if there would be any reason not to replace the existing 24" C2D culvert with a larger one.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

January 2010

Dam Inspection for Jan 19, 2010 Board Mtg.

1/17/10 11:05am Recorded Lake Level for this month is 791'9" to the top of ice.

1. Monthly visual inspection completed. Refer to 01/08/10 10:00am Log Entry.
2. A refund of \$10.00 in cash from Sawdon Fencing was given to Clint Hawks (LVOPA Treasure) for an overpayment from the LVPOA check number 2379 for \$1,170.00. The invoice from Sawdon Fencing was for \$1,160.00.
3. Duane Albright (LVPOA Dam Operator) would like to be reimbursed \$13.65 to purchase DVDs to be used to transfer VHS tapes of past MD Riser Culvert Inspections and to begin the storage and transfer of paper records to digital format.
4.
 - Discuss at the board meeting a plan to create a budget program for the 2015 dam inspection. It is estimated that the 2010 dam inspection will run around \$2,000.00. It is being recommended to place \$500.00 a year in an account to be available to pay for the Dam Inspection as they are due every 5-year.
 - Discuss at the board meeting a plan to create a \$3,000.00 yearly budget for the maintenance of the dam.
 - Discuss at the board meeting what the association can do about ORV that keep driving on the dam and a way to pay for the repair of damages.

01/19/10 10:05am..... Met with Jon Morrison (CCDC Deputy) at his office to review the proposed drain easement and the possibility of adding a second 36" culvert beside the C2D culvert that is scheduled to be replaced when the road repaving is done.

01/17/10 11:05am..... Lake Level is 971'9" to the top of the ice. The top of the vent pipe in the MD Riser is no longer frozen shut. It is noted that snowmobiles are accessing the west end of the MD from the Price Road ditch regularly. There are still snowmobiles driving on the dam from the lakeside also.

01/15/10 9:58am..... The following e-mail was received from Jon Morrison (CCDC Deputy) 989-224-5212, in response to the e-mail sent to him on 12/17/09 in regards to the create of two additional drain easements.

From: Morrison, Jon <MorrisonJ@clinton-county.org>
Subject: Pending Drain Project Considerations for Lake Victoria
To: "Duane Albright" <redonred82@yahoo.com>
Date: Friday, January 15, 2010, 9:58 AM

Duane,

I think we can make what you suggested for an easement work through the Lake Victoria Overflow Pond. Here's how I would propose going about it.

Construct the control spillway on the lake side of Peninsula Way permanently preventing any flow from the road to the lake. This clearly negates the need for Branch No. 10 as it is currently described.

Relocate Branch No. 10 to correspond to the Lake Victoria Overflow Pond outlet along the south side of Price Road as you had described. This would be defined as a traditional drain from the Price Road culvert to the northeast corner of the overflow pond ("Wolf Lake") and we will need sign off from both the Road Commission and LVPOA. We'll also want to get some moderate easement width south of the road right of way to ensure adequate equipment access along this route.

Obtain a "Flooding Easement" across both the Lake Victoria Overflow Pond and Overflow Area up to the culvert under Peninsula Way. I am attaching the flooding easement form for your review. This is different from a typical drain easement in that rather than defining a specific route for the flow of water that requires maintenance to keep "in line", a general area is just described where it is acceptable for flow to occur and so long as flow is able to occur in some fashion through this area, there is no need for maintenance.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

Once the new easements are obtained, relinquish the existing easement for Br 10 such that it no longer exists as a county drain. This would leave the Association responsible for maintaining the spillway that was constructed as another component of the dam serving the lake.

Think this through and go over it with the Board. I don't know if I've missed the January meeting or not already, but I not quite ready to provide detailed information at this point. But I would like to shoot for attending the February meeting as I expect to have enough info to provide conceptual plans for the various activities we are planning around the lake and could go over the "swapping" of Br 10 as well at that time. Let me know what the February meeting date so I can get it on my calendar.

Thanks!

Jon W. Morrison

Deputy

Clinton County Drain Commissioner's Office

Ph: (989) 224-5212, Fax: (989) 227-6449

morrisonj@clinton-county.org

- 01/15/10 4:00pm.....Picked up the LVPOA gate key (LOAN#6) from Keith Putnam (Trapper). Keith said he trapped a total of 36 muskrats for the season.
- 01/08/10 10:00am.....Lake level is 791'9" (to top of ice) Noted tracks from three snowmobiles on the dam. Conducted a visual inspection of the dam system and it appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. In addition the top of the new vent pipe in the MD Riser looks to be frozen shut. The water level has returned to our operating level so water is now flowing through the Peninsula Way Culvert. No other changes or visual problems have been observed at this time.
- 12/29/09.....Transferred VHS videos of the 1991, 1997, 1998 and 2006 LVPOA Primary Spillway Inspections to DVDs for dam records.
- 12/27/09 6:50pm.....Borrowed VHS/DVD transfer equipment/software from Kim and Meg Dutcher to transfer video inspections from VHS to DVDs for dam records.
- 12/18/09 9:43am.....Called James Fyvie (911 Administrative Director) 989-224-3580. James was not in his office today so a message was left asking him to call back when he was available to discuss and develop an Action Plan for the dam. The idea is to create the ability for the Dam Operator to make one call using the 911 system to alert and activate the appropriate agencies and personnel in the event water would begin to flow over the C2D Auxiliary Spillway. The plan would create the protocol that would be kept on file with 911 for such an event. This would also serve as an Emergency Action Plan even though Lake Victoria is not required to have one because the dam has a Hazard Potential Classification of LOW.
- 12/18/09 8:01am.....Jon Morrison (CCDC Deputy) 989-224-5212, is reviewing the information and will let us know if it will work from his perspective. He is waiting for additional field information from a county consultant which will also help with Jon's evaluation. His recommendation may not be ready until after the first of the year. He will be in contact.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

12/17/09 5:43pm..... The following e-mail was sent to Jon Morrison (CCDC Deputy) 989-224-5212, in regards to his request to create two additional easements. The easements would allow the county access to the areas for maintenance and give the CCDC additional funding options.

From: Duane Albright [mailto:redonred82@yahoo.com]
Sent: Thursday, December 17, 2009 5:42 PM
To: Morrison, Jon
Subject: Re: Standard Drain Easement Document

Jon,

I've talked with the board regarding the two easement areas and was given an approval to help establish an easement from the Lake Victoria Overflow Pond to the Price Road culvert.

LAKE VICTORIA OVERFLOW POND / PRICE ROAD EASEMENT:

The easement will extend from the Northeast corner of the Lake Victoria Overflow Pond (locally referred to as "Wolf Lake") along the Price Road ditch, downstream of the Lake Victoria Main Dam, and continue to the Price Road culvert located adjacent to the Lake Victoria Principal Spillway discharge culvert.

The LVPOA Board would also like to help establish an easement that would enable the County to maintain the discharge area of the Peninsula Way Culvert while not relinquishing control or confining the path the discharged water would take while flowing through the Lake Victoria Overflow Area to the Lake Victoria Overflow Pond. The board's concern is that the overflow area has been a natural wooded floodplain and we would like to maintain that condition.

LAKE VICTORIA / CLOSURE #2 DAM / LAKE VICTORIA OVERFLOW AREA EASEMENT:

The ??-wide easement will extend from Lake Victoria through the 230-foot earth embankment structure also known as Lake Victoria Closure #2 Dam and continue 75-feet from the center of Peninsula Way Road into the Lake Victoria Overflow Area that proceeds the Lake Victoria Overflow Pond (locally referred to as "Wolf Lake".) The easement will be in line with the Peninsula Way Road culvert that runs through the Closure #2 Dam. With the exception of this easement area, no modifications will be made to the area between the Closure #2 Dam and the Overflow Pond.

Let me know if you can plug these recommendations into the County Drain Easement Form that I received September 23, 2009. Feel free to contact me directly on my cell at 517-231-0717 if you need me to describe the area or our request in more detail.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

December 2009

Dam Inspection for Dec 16, 2009 No Board Mtg.

12/16/09 11:19am Lake Level is 791'5" to top of ice.

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.

12/15/09 2:59pm..... Steven Simons (All Terrain) picked up the \$25,272.00 check (#2375) as final payment in full for the Dam Facing/Overflow Project. Steve also returned the gate key (LOAN#7).

12/14/09 3:53pm..... Talk with Wayne Baum (All Terrain) 517-202-0860, he said he had a crew ran a compactor over the ruts to flatten them out. Although the area is now covered with snow and cannot be viewed the Dam Facing/Overflow Project is now to be considered complete and ready for final payment.

12/05/09 2:55pm..... Talk with Clint Hawks (LVPOA Treasure) who has received the final invoice from All Terrain. The total cost for the Dam Facing/Overflow Project is \$45,727.00 (Dam Facing \$39,164.00) and (Dam Overflow \$6,563.00). All Terrain was paid \$20,000.00 as a down payment to start the project with the remaining \$25,727.00 to be paid upon completion.

12/04/09 9:12am..... Wayne Baum (All Terrain) called to ask if the Dam Facing/Overflow Project has been inspected and approved for final payment. Wayne was told everything has been completed and approved except for the deep ruts that run along the top of the C2D downstream side. These ruts still need to be filled or flattened out. Wayne said the plan is to take care of the ruts next week.

12/03/09 8:58am..... Tim Arrnst (Worthy Acres) plans to start placing the crushed concrete at the ends of the boat ramps, weather permitting. When he is finished he will return the loaner gate key that was given to him at the beginning of the summer projects.

11/24/09 1:50pm..... Sam from (Trinity) was at the dam to do some survey work for the county drain commission.

11/24/09 9:00am..... Opened the Dam Access Gate to let Sawdon Fencing on to the dam to erect the fence. The job was completed at 1:42pm. Payment was made with LVPOA check number 2379 for \$1,170.00. The invoice from Sawdon Fencing was for \$1,160.00 instead of \$1170.00 so Lee gave Duane Albright \$10.00 which will be given to Clint Hawks LVPOA Treasure at the January 2010 Board Meeting.

11/23/09 5:10pm..... Met with Steve Simons (All Terrain) cell: 517-202-2751 to review the items that need to be finished to complete the Dam Facing/Overflow Project.

- Some additional straw matting needs to be placed on the exposed dirt at the east end of the dam.
- Additional stakes needed to be added to the straw matting to help hold it in place.
- Some additional grading is needed.
- The logs and telephone poles that outline the parking area need to be put back in place.
- The deep ruts that run along the top of the C2D downstream side need to be filled or flattened out.

11/20/09 9:25am..... Frank Jacobs (USIC Underground Locating) 616-885-7918 has checked the east end of the dam for utilities and has placed the all-clear flags.

11/19/09 1:23pm..... Dropped off the Dam Paperwork Box to Kim Dutcher so he could gather some information for Gary Croskey.

11/18/09 3:59pm..... Contacted Miss-Dig (dial 811) to have any underground utility pipes and wires in the area of the new chain link fence marked. **Permit number B93220999.**

11/18/09 12:31pm..... Sawdon Fencing quote for Version (A) option #2 was \$1,170.00.

- After the review of all quotes Sawdon Fencing was selected to install the chain link fencing at the east end of the dam. The decision was based not only on the price but on the ability that Sawdon, weather permitting, could start by 11/24/09.

11/18/09 9:30am..... Met with Lee (Sawdon Fencing) cell: 517-202-0928 to quote on the dam fencing project Version (A) option #2.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

November 2009

Dam Inspection for Nov 17, 2009 Board Mtg.

11/17/09 10:58am Lake Level is 790' 10"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems have been observed at this time.
2. 11/17/09 7:53am the Clinton County Sheriff's office was contacted and a report of property damage to the Jason Rd. park was made to Officer Mark Vermillion badge #13. On several occasions this summer a vehicle has been driven off the road and on to the grass of the park making deep ruts. The vehicle has gone the grass alongside the road and also up into the park. Fresh tracks were noted again Sunday morning 11/15/09 which prompted the call to the Sheriff's office.
3. There is a need to install a fence at the east end of the dam to discourage people from cutting through private property and to restrict ORV traffic from accessing the dam and lake from the Overflow pond area.

Fencing quotes for the East end of the dam follow:

Version (A) - Sixty Six feet of four foot tall Chain Link fence.

Version (B) - Sixty Six feet of fence made of 5" to 6" wood post 8' tall with 5' of the post exposed. Posts will be placed every 8' with 3-strands of 3/16" braided wire with clear plastic coating.

1. Sawdon Fencing 517-803-2969. Lee has not called back.
2. DeWitt Fence 321-2356. Steve Bos sent quote.
 - Version (A) - 4' chain link fence \$1,162.00
 - Version (A) option #2 - 5' chain link fence \$1,270.00
 - Version (B) - will not quote the post & 3-wire strands style fence because of liability reasons.
3. Spartan Fence 351-1611 / 800-848-1611. Laura e-mailed quote.
 - Version (A) - 4' residential chain link fence \$1,080.00
 - Version (B) - Post & Cable fence \$1,710.00 5" round posts 5' above ground w/3-strands of 3/16 clear coated rope.
 - 3-rail post & rail PVC vinyl fencing \$2180.00 white 5x5 posts, 2x6 rails.
4. R&R Fence 655-9966. Rob has not called back.
5. Worthy Acres 819-4447. Tim Arnst delivered quote.
 - Version (B) - Post & Cable fence \$

11/17/09 8:39am..... Contacted Wayne Baum (All Terrain) He said he was out 11/16/09 to inspect the job at which time he noted they still need to do some additional work on grading, seeding and the straw mat before the job is complete. Wayne will be in contact with the LVPOA when it is completed.

11/14/09 12:35pm..... The MD Riser vent extension and clamp was installed by Clint Hawks and Duane Albright.

- Keith Putnam (Trapper) said he has trapped an additional 6-muskrat from the lake.

11/13/09 1:05pm..... Lake Level is 790'9". The water level is too low now for any water to flow through the C2D culvert.

- Keith Putnam (Trapper) said he has trapped 9-musk rats so far. He was told about a muskrat that has been hanging around the MD Riser. He is going to watch the area. He will not start trapping the overflow pond until it freezes and he can access the area.

11/13/09..... All Terrain is grading the dam and starting to seed and place straw matting. The unused large rocks staged in the parking area are being removed after which the parking lot will be re-graded as needed.

11/12/09..... All Terrain is topping the large rocks with the 1" to 2"-inch in size, crushed concrete.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 11/11/09 2:45pm..... Met with Wayne Baum (All Terrain) review the following 14 items left to do. Wayne said the crew will be back 11/12/09 and would like to finish the project.
1. Align top edge of large rocks on the face of the West End of the dam beyond the boat ramp to the overflow area.
 2. Place matting and a load of large rock at the East End of the dam by the large bolder in a triangle shape to fill in the area between the large rocks and the bolder.
 3. Top large rocks that have been placed along the entire water's edge with 1" to 2"-inch in size, crushed concrete to fill voids. (*Note: that on the far East End where it has been placed already there are some thin areas that need more to fill it better*).
 4. Back fill between the top edge of the large rocks and the grassy area of the so the ground is at an angle that can be mown.
 5. Along the East Side of the dam, just west of the boat ramp, a combination of cutting down the bank and the addition of dirt to back fill the area is needed to create an angle that can be mown.
 6. Along the West Side of the dam, beginning just east of the boat ramp, a combination of cutting down the bank and the addition of dirt to back fill the area to create an angle that can be mown.
 7. The area on the East Side of the Auxiliary Spillway starting at the water's edge going over the dam to the trail will need to be graded before it is seeded so it is smooth enough to be mown.
 8. Fill the ruts on the backside of the dam next to the West Side of the Auxiliary Spillway so it can be mown.
 9. 1" to 2"-inch in size, crushed concrete approximately 4 to 5-foot wide needs to be place from the top of the dam across the Auxiliary Spillway to create a walking path that will connect with the wood chip path on the East Side.
 10. Remove all large rocks from the grassy areas on the dam including those that have been squashed into the ground.
 11. Remove all 1" to 2"-inch crushed concrete spilled on the grassy areas of the dam.
 12. Fill level and seed all holes, tracks and ruts, created by equipment to return all grassy areas to a mow able surface.
 13. There is a depression in the parking area where the large rocks were dumped and staged. The parking area will need to be graded so that area will not trap water.
 14. All areas with exposed dirt will need to be seeded and a straw blanket applied.
- 11/11/09 1:16pm..... Told Tim Arnst (Worthy Acres) that the board approved his quote of \$140.00 for 2-yards of 1" to 6" in size crushed concrete to be placed at the end of both the north and south boat ramps. He is going to wait until after 11/15/09 when All Terrain should have complete the work on the dam and Tim can get his equipment in and do both ramps at the same time.
- 11/10/09..... Contacting fence companies to get quotes for the fencing needed at the East end of the dam.
- Version (A) - Sixty Six feet of four foot tall Chain Link fence.
Version (B) - Sixty Six feet of fence made of 5" to 6" wood post 8' tall with 5' of the post exposed. Posts will be placed every 8' with 3-strands of 3/16" braided wire with clear plastic coating.
1. Sawdon Fencing 803-2969. Lee will call back.
 2. DeWitt Fence 321-2356. Steve will call back.
 3. Spartan Fence 351-1611 / 800-848-1611. Laura will e-mail a quote.
 4. R&R Fence 655-9966. Rob will call back.
 5. Worthy Acres 819-4447. Tim Arnst will get a quote to me.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 11/09/09 8-5:00pm All Terrain continues the Dam Facing/Overflow Project.
- This project **DID NOT CHANGE the 794'2" Crest Elevation of the Auxiliary Spillway.** Water will still begin to pass when the lake impoundment is greater than 794'2". **The Crest is two foot five inches above the Lake Operating Level.**
 - The face of the dam was lined with a 6' mat and covered with large rocks.
 - A walkway from the shore to the Main Dam Riser was constructed using crushed concrete one to two-inch in size.
 - The Auxiliary Overflow has been covered with a mat material and topped with crushed concrete three to five-inch in size. The concrete extends over the top of the dam, from the large rocks used to face the dam, and stops at the large rocks that cover the remainder of the spillway from the leading to the overflow pond.
 - Workers will return 11/11/09 to continue the work. No work will be done on 11/10/09.
- 11/07/09 11:00am..... Met with Keith Putnam (Trapper) at north boat ramp to give him a gate key (LOAN#6) for the muskrat trapping season. **NOTE: Keith's truck will be parked on LVPOA property during the trapping season. It is a white Chevrolet pickup license number BJD 0102.**
- 11/06/09 12:00pm..... All Terrain has placed the mat material and covered it with rocks on all but approximately the last 75' of the dam face. A service walkway leading from the shore to the back of the dam riser was also constructed this week using crushed concrete. The workers have ended work for the day and plan to resume Monday morning 11/09/09.
- 11/03/09 8:00am..... All Terrain has started to deliver material for the Dam Facing/Overflow Project. They have started to grade and place the mat and rocks at the west end of the dam working their way to the east end.
- 11/02/09 4:00pm..... Lake level is 790'7". Closed MD Riser Valve. Met with Wayne Baum and Steven Simons to go over the project. Steve will be in charge of the project from here on.
- 11/02/09 9:29am..... Contacted Wayne Baum (All Terrain) and ask about the status of the project. Wayne said they're planning on bring material out to the dam this week and begin the project if weather permits. He will be contacting me when thing start moving.
- 10/31/09 8:20am..... Lake Level is 790'10". Because of the rain received in the last couple of days the MD Riser valve has been opened 8" to return the lake level to 790'3". This level is needed so the scheduled dam work can be done.
- 10/30/09 6:58pm..... Delivered Check to Rick Adams for the painting of the MD Riser. \$630.00 payment in full.
- 10/28/09 11:52am..... Rick Adams finished the MD Riser painting project and has returned the generator, unused paint (1-gallon part A & 1-gallon part B) and the wood borrowed from the pole barn was put back inside the pedestrian door.
- Some metal work still needs to be painted, some bolts will need to be replaced and the lake level and danger signs need to be painted on the sides yet. All these projects will wait until next summer.
 - The safety equipment needs to be purchased.
 - We have all the parts for the vent pipe extension project. The plan is to install it before the start of this winter.
- 10/28/09 9:46am..... Contacted Wayne Baum (All Terrain) to go over two items that were missing from his quote. He said to write them in on the contract. Picked up a \$20,000.00 check (#105) from Clint Hawks LVPOA Treasure 10/27/09 evening for the down payment to start the project. Picked up two gate keys (LOAN#6 & #7) from Dan Brown LVPOA President. The LOAN#6 will be given to Keith Putnam (trapper) and the LOAN#7 will be given to All Terrain. The two All Terrain signed contracts, check #105 and gate key (LOAN#7) will be delivered to Steven Simons tonight (gave to Steve 5:47pm). Wayne said All Terrain has scheduled the project to start the week of 11/01/09.
- 10/25/09..... Rick Adams has finished applying the paint to the MD Riser. He will leave the tenting up for at least another day while the paint dries.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

10/26/09 6:12pm..... Rick Adams constructed the tent over the MD Riser and has finished scraping and washing the sides. If weather permits he will begin painting Tuesday 27th.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 10/26/09 12:36pm..... Contacted Wayne Baum (All Terrain) to let him know I should be able to send the signed contract and the check by Wednesday 28, 2009. Wayne said he has already started ordering material and will be ready to go as soon as I notify him that I have the check.
- 10/23/09 11:26pm..... Rick Adams picked up the paint and generator from Duane Albright for the MD Riser paint project. In addition Rick was given some 2x6s and 2x4s from the association pole barn. This material will be used for the tent frame work needed to support the plastic sheeting. The plastic will surround the riser so it can be heated and shielded from any weather while work is being done.
- 10/21/09 12:56pm..... Contacted Wayne Baum (All Terrain) to let him know the LVPOA Board approved his bid. Wayne will need the (2)-signed contracts, a gate key and a check for \$20,000.00 up front. Clint will be out of town until late 10/26/09 so I will not be able to get a check until the 27th or 28th. Dan Brown asks that I make sure that when the rocks are placed that there aren't a lot of gaps. Wayne said he was planning to watch for that and address if needed. He said it should take 3-days weather permitting.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

October 2009

Dam Inspection for October 20, 2009

10/19/09 1:14pm.....Lake Level is 790'3"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems at this time.
2. Tim Arrnst (Worthy Acres) is billing \$500.00 for work he has completed:
 - A. \$120.00 - Mowing of dam this summer.
 - B. \$150.00 - 6x6 Timbers to line the parking area at the north boat launch.
 - C. \$180.00 - Move telephone poles from the association pole barn to the north boat launch and position them.
 - D. \$50.00 - Move gravel from the north boat ramp to fill holes at the end of ramp.
3. Tim Arrnst (Worthy Acres) is quoting \$140.00 for 2-yards of 1" to 6" in size crushed concrete to be placed at the end of both the north and south boat ramps. This would extend the area boat trailers can be driven into the water. It will also help stabilize the area from prop washout when members attempt to power load their boats.
4. Contacted four commercial painters to quote the prepping and painting the sides of the Main Dam Riser.

B&J Painting 484-5200, A-1 Superior Power Wash & Painting 669-7385, Parrish Painters 881-0079 and McCardell Painting, 339-3473. McCardell, Rich Adams LVPOA resident, Only Rick Adams turned in a quote for \$630.00 to do the project.
5. Quotes to face the dam with rocks and line the Closure 1 Dam Auxiliary Overflow.
 - A. +/- \$100,000.00 T&E Farms 989-288-3045 (Ed Vandenboss) to place large rocks on the face of the dam. This Quote did not include the lining of the Auxiliary Overflow.
 - B. +/- \$96,600.00 Contech 616-403-5525 which includes interlocking blocks and fabric mat material. This quote does not include any installation labor.
 - C. +/- \$45,700.00 All Terrain 655-5448 which includes 8"to14" stones over a mat material to face the dam. Crushed concrete over a mat material to line the Auxiliary Overflow. (LVPOA member company).
6. The following are the email correspondences between Gary Croskey (Dam Consultant) and Duane Albright in regards to possible modifications to the C1D Auxiliary Overflow.

Subject: Re: Lake Victoria auxiliary overflow modification

Date: Friday, September 25, 2009 12:05 PM

From: "Gary Croskey" croskeyg@gmail.com

To: "Duane Albright" redonred82@yahoo.com

Cc: "Kim Dutcher" gemlad@gmail.com, "Kim Dutcher LAKE VICTORIA" meg.dutcher@att.net, "Kim Dutcher LAKE VICTORIA" gemlad@att.net

We need to update my general consulting services contract, which I think expired on 9/1/2009.

I haven't really billed, though I've done some contact with Duane. I need to send that.

Meg Dutcher, suggested we meet to discuss some issues. I can do that sometime after next two weeks.

In the interim should I send Duane a new consulting services agreement?

I need Duane's address.

Thanks

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

Subject: Re: Lake Victoria auxiliary overflow modification

Date: Friday, September 25, 2009 11:59 AM

From: "Gary Croskey" croskeyg@gmail.com wrote:

To: "Duane Albright" redonred82@yahoo.com

Cc: "Kim Dutcher LAKE VICTORIA" gemlad@gmail.com, "Meg Dutcher" meg.dutcher@gmail.com

The auxiliary or "emergency" spillways are normally designed to start to flow for floods greater than 25-year or a 4% chance flood in any year to occur.

Why?

Especially for this auxiliary spillway its not "designed" to handle more frequent flows.

You have to couple this with the fact that lining the "principal" spillway outlet tube reduced its capacity. Therefore, for the floods or high flows between the "annual" or yearly flood to that flood that would activate the auxiliary spillway, may cause the lake level to rise higher when flows exceed the capacity of the outlet tube.

WHAT ABOUT THE RISER CUT?

The Association did the right thing to modify the riser, for it requires far less "operation" of the slide gate that really does not provide additional flow, i.e. NO GATE to open, and when you did the "control" transfer to the outlet tube.

IS THIS MAKING SENSE TO YOU?

Yes, you may get "complaints" for high water, BUT, this year has been one of the wettest on RECORD.

IT'S A HYDROLOGIC THING NOT HYDRAULIC. Hydrologic means the amount of water coming off the drainage area or watershed to your lake. YOU DO NOT CONTROL THIS, Mother Nature or GOD does.

You would think you should be getting "compliments" for a sustain "normal" level, BUT, its all perception of the riparian/lake front property owner.

Regarding flooding of basements, there should be a delineated "floodplain" for the subdivision plat. It has to be the 100-year or 1% chance flood elevation, and is based on the spillway(s) capacity of the dam. I.e. that floodplain elevation will reflect FLOW through the auxiliary.

To be blunt, the lake front property owner when constructing their home, and their builder had to abide by the floodplain elevation regulations. That is the first floor elevation must be above that elevation.

Check out their mortgage surveys.

OBVIOUSLY, if you build a basement of hole below the floodplain elevation, or in that fact any elevation below let say the top of the DAM, you can expect either flooding to the basement and or the surrounding groundwater level to rise, causing the foundation drains to fill leading to sump pump activity.

If the homeowner or builder did not address this, the homeowner should be prudent on their own to develop protection for their structure.

Sorry for the long explanation on basement or resident flooding.

BACK to shoreline erosion.

I would bet that some erosion is occurring because you lake level has been "abnormally" higher or actual at what its suppose to be because of the WET water year.

REMEMBER, the last 7-10 years MI, especially mid Michigan area has been in "DROUGHT" or dry conditions, resulting in your lake levels being lower (and requiring less gate operation).

SO what do you want to do?

I WOULD NOT LOWER THE EXISTING AUXILIARY SPILLWAY.

IF you want to PAY, a "new" principal spillway, with increase weir length and larger outlet tube can be designed and constructed.

IT MAY BE prudent to start considering this option, since the existing PRINCIPAL spillway has limited capacity, well at least slightly less than original design, and you could really do it right.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

Subject: Re: Lake Victoria auxiliary overflow modification

Date: Thursday, September 24, 2009 at 9:52 AM,

From: Duane Albright redonred82@yahoo.com wrote:

To: "Gary Croskey" croskeyg@gmail.com

Cc: "Kim Dutcher LAKE VICTORIA gemplad@gmail.com,

September 24, 2009

Gary Croskey

P.E. LLC

Morning Gary,

Since the auxiliary spillway is already a weir, would there be any reason not to modify it so it can relieve excess water sooner? At present, during heavy rain storms or flood conditions, after the Primary Spillway and the 24" Peninsula Way Culvert has reached capacity we can only set and watch the water rise. It isn't until the lake level has risen over two feet that it would reach the crest of the Auxiliary Spillway and start to give us some additional relief. This summer it's been halfway there. I have had to field several complaints from the membership about shoreline erosion and property damage. All I've been able to tell them is that "we have to ride it out because I have no way to increasing the amount of water leaving the lake during high water events." An example would be the home next to Kim Dutcher. The home would have had water in its basement if the last storm had continued. We were 12 inches above the operating level. If I'm getting complaints of damage when the water is 12 inches above our operating level I can only imagine the damage that would occur with an additional twelve and a half more water being held back. So what's the difference? I'd like to know, since we are talking about making changes to the Auxiliary Spillway anyway, why we shouldn't lower, flatten and widen the top of the weir so it functions sooner. Lower it to 792.3 (six inches above the operating level of 791.9), Flatten it to get rid of the bumps and curves and even out the flow over the top of the crest (as we've discussed) and make the crest area at least 25 foot wide. If this would not damage the dam I would think it would be a good way to increase the amount of water that could leave the lake before we have over two foot of water to deal with. I'm guessing this would also mean the 24" culvert, in the Price Road ditch that runs under the north boat launch access road should be replaced with a larger one to accommodate the additional water.

Is there any reason not to do this?

Would these additional modifications damage our dam system in any way?

Would we need an Engineer to draw up plans for this modification?

Thanks,

Duane Albright

LVPOA Board Member

517-231-0717

redonred82@yahoo.com

Subject: Re: Lake Victoria auxiliary overflow modification

Date: Wednesday, September 23, 2009, 2:35 PM

From: Gary Croskey croskeyg@gmail.com wrote:

To: "Duane Albright" redonred82@yahoo.com

Cc: "Kim Dutcher LAKE VICTORIA" meg.dutcher@att.net, "Kim Dutcher LAKE VICTORIA" gemplad@att.net

Date: Wednesday, September 23, 2009, 2:35 PM

The auxiliary spillway is a weir, as it is. My discussion with you on lining it with articulating block (ArmourLock, TriLok, AmourFLex all work on same concept) is the same as with Spicer, so what is the difference?

My discussion also pointed out that cost saving is using either articulating block or well graded heave riprap would do the job, especially starting at the downstream toe of the slope of the auxiliary spillway.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

Subject: Lake Victoria auxiliary overflow modification

Date: Wednesday, September 23, 2009 11:50 AM

From: Duane Albright redonred82@yahoo.com wrote:

To: Gary Croskey croskeyg@gmail.com

Cc: "Duane Albright" <redonred82@yahoo.com>, "dan brown"

<dannysfree@hotmail.com>, "Al Burnie" <imanetserfur@aol.com>, "Michelle Campbell" <mcampbell@sigmarep.com>, "scott danek" <scottmdanek@gmail.com>, "Kim Dutcher" <gemlad@gmail.com>, "Renee Gutzman" <RCGutzman@landolakes.com>, "clint hawks" <clint.hawks@gmail.com>, "Mark Langworthy" <mlangwor@cablespeed.com>, "Scott Westenberg" <scottwestenberg@broadstripe.net>

September 23, 2009

Good morning Gary,

I received good feedback from the Lake Victoria Property Owners Association board during our last meeting in regards to obtaining further information to line the auxiliary overflow on closure #1 dam.

As I've been collecting information, for the quoting process, I couldn't help but ask myself, if the plan is to line the overflow, would it be a good idea to take this opportunity and modify it to create a weir system. I began thinking more about this possibility after a short conversation with a contact from the Spicer Group. He felt a weir could be designed using the ArmorLock mat material. This is one of the products I'd been considering as a liner. My thought was that if this material could also be used for a weir system it might make a weir modification project affordable for the association and worth looking into. I would be very interested in hearing you opinion on this idea. If you feel it's something we should look into would be interest in engineering it for us?

Sincerely,

Duane Albright

LVPOA Board Member

517-231-0717

redonred82@yahoo.com

10/14/09 5:07pm..... Lake level is 790'3"

- The MD Riser Valve was closed. The lake level is down 18.5". Although the plan was to close the valve at 189.9" the water was beyond the end of the concrete at the north boat launch. This was level it was dropped to last year so it was determined that this was low enough.

10/12/09 12:43pm..... • Keith Putnam (Trapper 989-834-2334) will trap for muskrat during the season. He will need a gate key while he traps. Let people know he will trap for members.

- LVPOA is in Zone #3. The season runs from Nov. 10 to Jan. 31.

10/12/09 9:00am..... Lake level is 790'6"

- Met with Wayne Baum (All Terrain 517-655-5440) and Kim Dutcher to review adjustments to the quote for the MD Rock Facing / C1D Auxiliary Spillway Lining Project. He will have an adjusted quote ready for me in time for the Oct. 20 meeting.

10/09/09 11:43am..... Lake Level is 790'9"

- Walk along the water's edge of the dam and did not see any signs of muskrats.

10/09/09..... Because of the cold weather a commercial painter will be needed to finish painting the MD Riser. The temperature is too low to apply the paint. Some type of tenting will be needed to allow the area to be heated for painting. Message has been left with four commercial painters asking for quotes.

10/04/09 3:35pm..... Lake Level is 791'3"

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 10/01/09 10:20am..... Lake level is 791'6"
- **Conducted the Yearly Primary Spillway Valve Test.** The valve is operating correctly.
 - The MD Primary Spillway Valve has been opened 4" to begin the lowering of the lake. The valve will be left open until the lake level reaches 789'9" to assist in the yearend maintenance projects.
 - Tim Arrnst (Worthy Acres) has move a pile of unused gravel at the north boat ramp to fill the two holes at the end of the ramp where someone has power loaded their boat. He charged us \$50.00. Tim is going to put together a quote for some crushed concrete to be placed at the end of both of the boat ramps.
- 09/25/09 7:32am.....
- I've been in contact with Jon Morrison of the Clinton County Drain Commission. As requested by the board I've asked Jon for a written document describing how the LVPOA would be affected if we were to agree to allow the CCDC to include the area between the Peninsula Way culvert and the Culvert leading under Price road by the Primary Spillway drain culvert.
 - An email was sent to the board members with Jon's response (received on 09/23/09 11:39am) and a Drain Easement document for the board to review and modify if needed. I'm sure well want our attorney to review whatever we come up with. Jon is very willing to work with us. He is also going to try to join us at the October meeting to answer questions if his schedule allows.
- 09/23/09 2:43pm.....
- Left a message for Tim Arrnst (Worthy Acres) asking him if he is available to move some gravel from a pile at the north boat ramp to fill two hole at the end of the ramp in the water where someone has power loaded their boat.
- 09/23/09 11:50am.....
- Sent an email to Gary Croskey asking him for his opinion about modifying the Auxiliary Spillway and to see if he would be interested in engineering it for the LVPOA.
- 09/23/09 11:39am.....
- e-mail received from Jon Morrison (CCDC) about the county's drain easement request.

From: Morrison, Jon <MorrisonJ@clinton-county.org>
Subject: Standard Drain Easement Document
To: redonred82@yahoo.com
Date: Wednesday, September 23, 2009, 11:39 AM

Duane,

I've attached our standard Drain Easement document for your and the Board's review. Because the drainage pattern in the location is question has been established in a more natural manner this standard form might need to be altered slightly to better reflect the existing conditions as there is no intent at this time to confine or otherwise modify the flow pattern that exists currently. The goal is to define a general means of access along the existing flow path such that people and equipment can get in to keep the water flowing in the general location where it is currently. At this point I really don't know what the appropriate easement area might be, but we are certainly open to working with you and the Board to come up with it.

If this just seems to be too restrictive from the Board's perspective, then could consider a flowage easement that would actually encumber a larger easement area overall to allow the natural drainage pattern to continue to change over time, but allow our office the ability to get in and do work to enhance such flow as necessary. We haven't done this type of arrangement with any frequency so we still need to work out the language a bit, that's why I haven't included it.

Again, we are not necessarily pushing to obtain such an easement. But based our understanding of how things actually work now, this would be a good time to get our records to reflect the actual situation.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

The other viable option is to essentially eliminate this overflow path as part of the county drain and leave it to the Association to manage it as part of the Dam, which is what has kind of occurred historically. So the Board should really consider both scenarios as I believe will we be justified in taking the desired action regardless of which direction is agreed upon.

Feel free to have Board members contact me directly if they have questions.

Jon W. Morrison
Deputy
Clinton County Drain
Commissioner's Office
Ph: (989) 224-5212, Fax: (989) 227-6449
morrisonj@clinton-county.org

09/21/09..... • Placed 8 ½ x 11 printed flyer at each boat ramp gate lock and on the mailboxes of all lake shore property owners as a reminder that the association will begin to be lowered the lake level on 10/01/09.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

September 2009

Dam Inspection for Sep 15, 2009

08/15/09 10:18am Lake Level is 791'7"

1. • Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems at this time.
2. • During the meet with Jon Morrison on 8/17/09 Jon stated that the county has a drain partition in process and he would like to include the drainage ditch/creek that begins at the downstream side of the Peninsula Way road culvert, the overflow pond and the Price road ditch as part of the county drain system. This would give the county right of way into these areas and allow the county to use funds drainage projects to maintain them. Right now these areas are LVPOA's responsibility. Jon asked that the board consider approving this request so the CCDC can include these areas in the upcoming drain partition.
 - Jon is also looking into creating a weir to be placed in the channel leading to the Peninsula Way culvert as a way to control/maintain the lake level at 791'9". This would eliminate any need for a control device to be attached to the culvert. He will keep us posted on the possibility.
 - As of the meeting with Jon the plan is that the 24" Peninsula Way culvert will be replaced when the road work is planned for that area of the road replacement project.
 - Jon is planning on coming to the October board meeting with more details of the CCDC road/culvert/dry hydrant project.
3. • Two dam projects are presented to the LVPOA board.
 - #1. To place stones/rocks across the face of the dam.
 - #2. To line the Auxiliary Overflow on C1D or create a Weir system.Rough quotes will be presented to the board for an idea of the possible cost and to discuss the possibility of pursuing the matter further.
4. • A request for the board to approve Oct 1 as the day to begin to lower the lake level. It will be lowered to approximately 789'9" (This is the level it was lowered to last year for the maintenance projects). It needs to be this level to allow for the painting of the sides of the MD Riser and to assist the CCDC as they work to complete the dry hydrant projects.
 - An approval for the printing of a notice letter to inform the lake side property owners of the lowering of the lake level. A notice should also be placed in the E-Voice.
5. • Arrangements for our muskrat trapper will begin soon so a request for any information of muskrat sighting or areas of concern would be helpful. A notice in the E-Voice would be helpful.

08/12/09 4:30pm..... • Completed mowing of the back side of C1D.

- Duane Albright purchased five gallons of gas for \$12.25 to run mower. Copy of receipt given to the board for reimbursement.

08/28/09 12:26am..... **NOTE:** Kim Dutcher will be in charge of the lake level from 09/02/09 to 09/07/09. He has a key to the MD Rise Valve Lock.

- Talk with Kim Dutcher about replacing the bolts and we decided to remove the two loose bolts and fill the holes with 100% silicon to make them water tight. There are still enough bolts securing the metal work so no one can open it. The remaining bolts will need to be monitored to see if the ice that forms on the MD Trash Rack during the winter pulls out or loosens and additional bolts. This modification can be done while the painting/vent extension project is underway.

08/28/09 10:20am..... Called Dick Thornburg (Welder) to see if he could get new bolts to replace the bolts on the MD Trash Rack that has become loose. Dick said I could get them at Fastenal Co. (989)723-7942 2030 W. M-21, Owosso.

08/27/09 11:18am..... Jon Morrison of the Clinton County Drain Commission called. He is setting up the plans, quotes and schedule for road/culvert work that will take place with the new roads. He will be going around the lake 08/31/09 between 8:00 and 10:00am. It sounds like he "may" be able to help us out with a control device on the Peninsula Way culvert. We'll see what he can do. I will meet with him and report the findings back to Al. Al said he will be available by phone if Jon has any questions.

08/21/09 9:21am..... Call Jack Powell to ask the status of the Peninsula Way culvert. I left a message for him asking to return my call.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

August 2009

Dam Inspection for Aug 18, 2009 (No board mtg. this month.)

08/18/09 7:45am Lake Level is 791'9"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems at this time.

08/11/09 2:14pm..... Lake Level is 792'0". No addition rain since 08/09/09. Closed valve. New adjusted trash rack is working nicely. No debris to remove.

08/09/09 7:41pm..... Lake Level is 792'3". Received severe thunder storm with heavy rains. Small stream flood warning for the day. Lake has a 6" cushion over 791'9" so the valve was opened to 8".

08/06/09..... Received quote from All Terrain for proposed project to line the water's edge with stone to control erosion. The quote also included the grading of the overflow area to prepare for the placement of a liner. Information to be presented to the board for review and discussion.

07/22/09 7:30am..... Lake Level is 791'8". New locking pin plate was installed. Noted that 2-bolts (in S. East corner) that hold down the base of the MD trash rack are loose. Later in the day I asked Kim Dutcher for advice. He wants to contact the contractor about some concerns, so he will include this.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

July 2009

Dam Inspection for July 21, 2009 Board Mtg.

07/20/09 6:47pm.....Lake level is 791'8"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of C2D culvert inlet. No change or visual problems at this time.
2. Dam has been mown.

07/16/09 4:55pm.....Dick Thornburg (Welder) made a new locking pin plate. It will be installed as soon as I have a chance.

07/16/09 2:33pm.....Following email message was received from Dan Argentous (CCRC Director of Engineering).

I looked at the area and your proposed control structure.

I would recommend the lake association place a separate culvert just upstream of the road and use that to place your control structure on. If we replace the culvert under the road at some future time, having the control structure hooked to it could make things more difficult. With the road being a dead end, we would want to be able to replace the culvert under the road without the added problems the control structure would create.

I also believe the control structure should be placed outside to the road right-of-way so there is no confusion in the future that this structure is not under the road commission's jurisdiction.

I hope this helps

Dan

07/16/09 4:55pm.....\$860.00 invoice received from Tim Arnst for (invoice to be turned in at the July 21, 09 board meeting):

- \$90.00 for the placement of the telephone poles at the North Boat Launch Parking Area.
- \$270.00 for the C1D repair work to fill the holes made when the stumps were removed.
- \$500.00 for 30yds of screened sand for the South Beach. Cost includes the labor to spread and grade.
- Note: Tim still has gate key. He will be mowing the dam and he will need it to get in.

07/16/09 10:33am.....Received quote options from Ryan Loeprich (Contech) for the overtopping of the C1D auxiliary overflow and the shoreline protection of the MD and C1D.

07/15/09 4:46pm.....Lake level 791'9" Went to install the new locking pin plate but couldn't. An adjustment is needed.

- Left a message for Dick Thornburg (Welder) asking about the modifications that will be needed for the locking pin plate.
- Left a message for Tim Arnst (Worthy Acres) asking for invoices for the parking area & stump work.
- Left a message for Ryan Loeprich (Contech) asking about the status of the Armorflex quote.
- Left a message for Dan Argentous (CCRC engineer) asking about the status of the Peninsula Way culvert control device.

07/11/09 9:00am.....Lake level 791'11" Dick Thornburg (welder), Kim Dutcher and Duane Albright met at the MD spillway to install the modified trash rack base. Dick still needs to make a plate to go over the locking pin. For now the access grate is chained down. The vent pipe extension and clamp to attach the two sections will be installed when this fall when the water is lowered for the spillway painting project. The total cost of the project is \$240.00 parts and labor (Dick's Welding Service, LLC 989-277-0926). The invoice will be given to Clint Hawks for payment.

07/10/09 2:25pm.....Met with Ryan Loeprich (Contech 616-403-5525) to get a quote to line the auxiliary spillway with an Armorflex mat/block product. He will review the project with his team and set up a proposal.

07/09/09 8:25pm.....Lake level 791'9"

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 07/09/09 4:00pm..... The base of the MD spillway trash rack was removed and taken to Dick Thornburg (welder) to make the required modifications to complete the metal work on the MD spillway. The top of the access grate was left in place and chained to the front deflector grille to detour access. It is scheduled to be reinstalled 07/11/09 at 9:00am. At the same time a 5' extension will be added to the vent pipe. The extension is needed to raise the opening so water does not flow into the pipe at times of high water.
- 07/06/09..... Tim Arnst (Worthy Acres) has moved a set of telephone poles from behind the association pole barn to the north boat ramp parking area. The additional poles were used to finish defining the perimeter of the parking area.
- 07/01/09 10:55am..... Talked with Dan Armentrout (989-224-3274 ext.238 / armentroutd@ccrc-roads.com) about the Peninsula Way culvert. He will look at it and review the request. Resent my email with jpg image of the control device.
- 06/30/09 7:15am..... Noted that the stump holes have been seeded with grass and straw has been placed on top of areas.
- 06/29/09 12:27pm..... Called Dan Armentrout, Director of Engineering to follow up on an email I had sent him asking for his recommendations on adding a control device to the Peninsula Way culvert. Jack Powel had given me Dan's name as a contact at his office that could help decide if this could be done. I've also sent Dan a picture of an control attachment for culverts like our that can be purchased. I had to leave a message asking him to contact me.
- 06/29/09 11:55am..... Talked with our dam consultant Gary Croskey and ask for his recommendations to reinforce the auxiliary spillway on C1D. He said he would like to see a product use like Trilock or Armaflex. It should extend into the lake run over the dam and then extend into the overflow pond. Some soil (the thickness of the blocks) should be removing than a mat type product put down followed by the blocks.
- 06/28/09 12:30pm..... Met with Kim/Meg Dutcher and Dick Thornburg to review the modifications that will need to be done to the MD trash rack. Dick will schedule the project after the 4th of July holiday.
- 06/26/09 7:05pm..... Lake level 791.10" Went ahead and closed the MD Valve. There is a meeting set for 06/28/09 12:00pm with Dick Thornburg to evaluate possible modification to the MD trash rack.
- 06/25/09 9:20pm..... Lake level 791'11"
- 06/25/09 7:10am..... Lake level 792'0" Cleaned small amount of debris from MD trash rack. The MD Valve has been closed down to 3" and will be closed as soon as the lake level hits 791.9" so we can begin to modify the MD trash rack. Kim Dutcher will be contacting Dick Thornburg a welder that does work for us.
- 06/24/06 6:51pm..... Unlocked and opened gate by pole barn for Tim Arnst (Worthy Acres) to pull some of the telephone poles that line the baseball field. The poles have been moved outside the gate next to Jason road. Tim will be coming back to move them to the North Boat Ramp Parking Area.
- 06/24/09 9:25am..... Lake level 792.3" Cleaned debris from MD trash rack.
- 06/23/09..... Tim Arnst (Worthy Acres) filled in the stump holes, spread the black dirt graded areas needed on the dam and parking area. Grass seeding still needs to be done.
- 06/23/09 10:20am..... Lake level 792'6" Cleaned a large amount of debris from the MD trash rack. Kim/Meg Dutcher and I opened the valve approx. 12" to evaluate the effect.
- 06/22/09..... Tim Arnst (Worthy Acres) had hurt himself so was not able to get right to work on the holes and parking area. He called to say he will be back to working on the project 06/23/09
- 06/22/09 8:05pm..... Lake level is 792'7" Cleaned a large amount of debris from the MD trash rack. Valve open approx. 6".

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

06/22/09 9:15am.....Lake Level is 792'9" I met with Kim and Meg Dutcher this morning to take a boat trip out to the dam riser. We went to evaluate the trash rack and the debris that keep collecting on it. Kim has stated in the past that the rack would need to be adjusted because the current design does not allow it to operation properly. In addition it was observed that the vent stack will need to be extended up so water does not fill it during high lake level conditions.

- Kim has graciously offered to take the lead and contact Dick Thornburg to work out the redesign of the trash rack. In preparation of the work needed, the Main Dam Valve has been opened approx. 6". This will keep the flow at its maximum capacity as the lake level goes down. We will leave it open until the level is just below the cut on the dam riser. Approx 791.8". This will allow us to remove the trash rack and make adjustments or fabricate a new. During the time the old trash rack is missing, a piece of plywood will be bolted in its place as a safety measure.
- In addition a meeting will be planned with Gary Croskey to ask for his advice as to how we could reinforce the Auxiliary Spillway. The spillway is located on the southeast end of Closure #1 Dam. The idea is to reinforce this area so if we get a storm that does not let up, and the water begins to flow over the dam, the chances of a failure here will not be as great. Although we have never received that much water, now is the time to prepare for it. Possible options would be to line the spillway with a mat and cover it with crushed concrete to help keep the area from eroding as the water exits the lake. Gary is our dam consultant and will be able to give us some good recommendations.
- A big thanks should go out to Kim and Meg Dutcher for their time and help with these issues

06/22/09.....**LVPOA June 22, 2009 E-Voice / Dam Operation Article to help educate the membership follows.**

I would like to thank those of you who have contacted me to express your concern about the lake level following our last storm. Your question assures me that our members realize how important our dam system is.

I think it is safe to say most members are aware that the association has modified the dam riser to create a self regulating system. Prior to this someone had to open and close the control valve constantly in an attempt to maintain the lake level (My hat is off to all our previous Dam Operators.) Our last Dam Operator, Kim Dutcher and our Michigan Dam Safety Consultant, Gary Croskey has stated that opening the main dam control valve is no longer necessary to control the level. Now the more water that comes into the lake the more water that will flow out. This exiting water will increase with the rising water level until the Main Dam Spillway reaches its full capacity. Our last storm 06/19/09 is a good example of the spillway reaching full capacity. For those who are interested, now is a good time to look at the structure. The outlet is easy to view. It is the 27" resin lined corrugated steel pipe at the base of the dam next to the culvert that goes under Price road. It should be running at full capacity for the next few days.

It's at these times I'm often asked if I were to open the original main valve, would the water pressure increase and force more water through the pipe? I've asked and been told by our advisors that it could, but the amount would not be enough to justify doing it. In addition to adding more pressure, the stress on the mechanical elements of the dam would also increase. This could lead to unnecessary and premature problems.

I'm also asked if it would be a good idea to try to lower the level of water before a storm hits. My reply has been to remind people that even the finest Michigan weathermen and women have a hard time predicting when, where and how much rain any given area will receive. I can only imagine having to tell all our members that I lowered the lake fourteen inches because the weather report said we were going to get that much rain only to find out the storm missed us and now the lake is too shallow for boats to pass on either side of the main island. A mistake like that could cost the lake a entire summer boating season. Again this is part of the reason for the self regulating modification. The new design eliminates some of the guess work and the labor needed to operate the dam in the past.

We also have to remember the third element of our dam system, Closure #2 Dam, better known as the Peninsula Way culvert (most people don't realize this area is also a dam). It is a 24" culvert which allows water to flow out of the lake and into the overflow pond where it continues down the Price road ditch to another culvert that goes under the road by the Main Dam Riser Outlet.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

I would like to reassure everyone that just because the principle spillway is self regulating that doesn't mean that the system isn't being monitored. Just the opposite. You will probably see me checking the dam system at least twice a day during storm conditions making sure the trash racks and culvert screens are clean, the water is flowing freely and there are no signs of problems on the earthen structures. Unfortunately during the last storm surge someone who did not know how to remove and clean the fish screen that covers the Peninsula culvert (this keeps our fish from leaving the lake) decided that it was best to just crush the screen and get it out of the way. Now the culvert is without a screen until someone has the time to pick up another roll of material and make new one. Believe it or not that same day while checking the outlet side of the culvert I observed 24" fish (sorry don't know my fish species but Yes all of 24"). When I got too close it swam back into the culvert going against the flow. During my second visit for the day I observed a school of fish (more than I could count) again at the outlet side of the culvert. All small but to large to have passed through the chick wire screen that we used to have. My point is that there is a reason for the things that we do and how we do them. If anyone would like to help please ask before taking it upon yourself to do something. Better yet contact me and join my team. I'll show you how things are done and I'd welcome the help. Just like the rest of the board members there are more projects and research that needs to be done then we and our helpers have time to do.

Also, let's not forget that all lake front owners should keep in mind that we need to be prepared before times of high water conditions. Please remember that all docks should be constructed so they will not float away. We should also be sure our boats and yard items are secure from high water and winds during and after storm conditions. This may mean going out and raising our boat lifts or attaching a safety line to water craft to keep them from floating away.

If you find that this article leaves you with more questions than answer please join me at one of our monthly board meeting. I'm not afraid to say "I don't know" or that I might have to research your question before I can answer it. I'll always keep an open mind to the views and opinions of all our members and I intend to consider any recommendations or requests but please understand that I may not be able or allowed to implement them due to our operating protocol.

Thanks and enjoy the season.
Duane Albright, Dam Operator.

- 06/21/09..... Kim and Meg Dutcher Cleaned a large amount of debris from the MD trash rack.
- 06/20/09 8:29pm..... Lake level is 792' 11" Large amount of debris was removed from the MD trash rack. Conducted a visual inspection of the dam system which appears to be intact and operating properly.
- 06/20/09 12:19pm..... Had a good phone conversation with Art Philp and was able to answer his questions about the high lake level. Also received a call from Clint Hawks relaying a message from Randy Chasney and an e-mail from Scott Westenburg (from Don Bracke) both regarding the lake level.
- 06/20/09 11:50am..... Lake Level is 792' 11" Large amount of debris was removed from the MD trash rack. The Dam Riser appears to be operating as designed. Noted a small amount of water on the back side of the Closure #1 Dam auxiliary spillway. It appears as if it was from the runoff of water from the heavy rain the night before. The direction of flow could be seen in the grass, dirt and woodchips coming from the hillside that leading into the spillway. It does not look as if it is coming through the dam. I will continue to observe this area for a while. When inspecting the Closure #2 Dam I found that Dave Pursel had crushed the culvert fish screen to get it out of the way. I found it at the bottom of the culvert opening. It was designed so I could simply lift it out to clean and then be repositioned. Unfortunately the fish screen is damaged beyond repair and will need to be replaced. The flow of water through the culvert is almost at capacity. Five inches from the top of the culvert.
- 06/20/09 9:45am..... Dan Brown called to say Dave Pursel had meet with him before the 10:00am meeting time. Dan told Dave that the dam system is being operated using the guidelines and instructions that we have been given.
- 06/20/09 9:14am..... Dave Pursel came to my home. See 06/22/09 Log Entry for Dam Operator's response to membership He expressed concern that the lake level was too high and that the valve should be opened to let more water out faster. He feels the increased pressure will lower the water faster. He has also removed the screen that was placed on the Closure #2 Dam culvert. He said it was plugged. He ask if I was going to open the MD valve. I told him I was operating the dam system as I have been instructed and trained to. He said if I was not going to open the valve he was going to talk with Dan Brown about the mater. He said, based on his experience as a past dam operator, the valve should be opened. I called Dan and ask if we could meet with him. A meeting is set for 10:00am with Dan Brown, Dave Pursel and Duane Albright.
- 06/18/09..... It is noted that a load of black dirt has delivered to be used to top of the holes where

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)
stumps have been removed. Removed debris from Closure #2 Dam culvert screen.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

June 2009

Dam Inspection for June 16, 2009 Board Mtg.

06/16/09 4:22pm.....Lake level is 791'10" (removed small amount of debris from MD trash rack / cleaned Closure #2 Dam culvert fish screen)

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of Closure #2 Dam culvert inlet. No change or visual problems at this time.
2. Received invoice from Ferrall's for stump removal. Total \$500.00. Will give it to treasure at the monthly meeting to be paid.
3. Tim Arnst (Worthy Acres) has positioned the telephone poles around the perimeter of the new North Boat Launch parking area. Two have been placed to create a loading lane. Dan Brown asked that I get with Tim W. and have him take some of the telephone poles from behind the association barn and use them to finish surrounding the parking area. I'm in contact with Tim Arnst (Worthy Acres) to coordinate this new part of the project.
4. Received a set of keys from Dan B. for access to the barn and gates so I can open the areas Tim W. will need to work in.

06/09/09.....Met with Tim Arnst (Worthy Acres) to go over the stump/parking area projects on the dam. I also gave him the LVPOA gate key.

06/08/09.....Received a LVPOA gate key from Clint Hawks. It was given to Tim Arnst (Worthy Acres) so he can enter the areas that he will be working on.

06/05/09.....Ferrall's (989) 862-4453 (Richard & Carolyn) completed the removal of the stumps on the back side of Closure #2 Dam. I reported to the board that it would cost \$400.00. This was my error. The correct amount is \$500.00. I will receive the bill for the service to present to the board at the 06/16/09 meeting. The new mower was used to mow the back side of the dam so the work could be done. I had to purchase gas for the mowing in the amount of \$6.55.

06/05/09.....Quote from Worthy Acres for South Beach work. Opt #1. \$500.00 for 30yds of processed sand w/labor to spread & grade. Opt #2. \$400.00 30yds of bank sand w/labor to spread & grade. I recommend Opt #1.
The Westgate Park project will be \$175.00 which includes the removal of stump grindings and the filling of the hole with black dirt, grade and seeding. Three yards of black dirt at \$145.00. Seed and straw will be \$25.00.

06/03/09.....Met with Tim Arnst (Worthy Acres) to get quotes for #1. The cleanup of the stump grindings from the tree that was removed last year from the Westgate Park. #2. Sand for the South Boat Launch Park. 10' wide from the waters edge 2" to 3" thick. Tim will also be finishing up the work on the new parking area at the North Boat Launch. This work will be tied into the work to cleanup work the back side of the Closure #1 Dam where stumps are to be removed. This project has already been approved by the board at the last meeting.

05/30/09 11:59am.....Purchased used 8hp 24" walk behind brush mower from Everett McGinnis (517) 651-2078 for \$750.00. Received an association check from Clint Hawks for the purchase. Mower was taken to the association pole barn where it will be kept. (Thanks to Mark Langworthy for finding the mower).

05/31/09 7:31pm.....Lake level is 791'11" (cleaned debris for MD trash rack)
Installed a wire screen on the lake side opening of the Closure #2 Dam culvert to keep fish from pass through.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

May 2009

Dam Inspection for May 19, 2009 Board Mtg.

05/16/09 8:48pm.....Lake level is 792'1" (removed large amount of debris from MD trash rack)

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of the rusted bottom of Closure #2 Dam culvert inlet.
2. Four quotes have been received for the removal of the stumps on the back side of Closure #1 Dam. They ranged from \$400 to \$625 for the removal of the stumps only. My recommendation is to use either Ferrall's @ \$400 or Robinson @ \$600. Tim Arnst (Worthy Acres) will charge \$60 per hr to remove the old stump material and fill the hole with a gravel type dirt topped with black dirt to seed. Approximately 2-3 hrs labor, 3-4 yards of gravel @ \$12 a yd and 3-4 yards of black dirt @ \$15 a yd.
3. Will also have Tim position the poles on the north ramp parking area, grade the gravel as needed and bring in topsoil to fixed damaged areas so it can be reseeded.
4. Need approval to get a can of spray paint to mark the stumps to be removed. Board approved.
5. Need approval to get some type of wire to place over the Closure #2 Dam culvert as a temporarily stop fish from passing. Board approved.
6. MD Riser Trash Rack needs to be modified. Will need to contact Dick Thornburg (welder) to see if he can make the modifications.
7. BillyGoat Field & Brush Mower with a 24" cutting width (#1. BC2403C, 12hp Briggs, pull start), (#2. BC2403H, 13hp Honda, pull start), (#3. BC2403HEB, electric start). Add tax to all quotes.
Midwest Power Equipment.....#1. \$1999.99#2. \$2600.00..... #3.
\$2799.99
Countryside Lawn & Power#1. \$2200.00#2. \$2600.00..... #3.
\$2800.00
Capital Equipment#1. \$2355.00#2. \$2765.00..... #3.
\$2875.00

05/18/09 8:48..... Talk with Jack Powel to confirm that the Closure #2 Dam culvert that runs under Peninsula Way Rd. is going to be replaced. Jack said the plan is to replace the culvert when the water level is low enough to begin the work.

05/02/09Lake level is 792'6"

05/01/09Lake level is 792'6"

04/30/09 11:03am.....Lake level is 792'6"

04/29/09 8:14am..... An email from Kim Dutcher about the primary spillway.

Thanks Duane, I was going to send something but instead I will now just add to this. With the modifications I did to the structure, we have to change our mindset. We now have 9 plus feet of linear surface which the water can flow over vs. the 2 ½ feet previously. About 4 times as much. If the water is 8" above the newly cut height, that gives about 864 (108" x 8") square inches of water going over it!! This is the equivalent of having the valve wide open without actually having it open. The square inch area of the pipe is 660 inches (it is now 29 inch ID, not 27 Duane). But you now see that the area of the pipe is less than the area of the water going over the top! Is the structure full of water? The pressure of the standing water in the structure will accelerate the flow out of the pipe. However, with all this said, there still needs to be a "fix" to the grate sides. The grate openings are too small and catch debris too easily which plugs it up. We still need to open up the flow and cutting several sections of the side grate will do this. I had the opportunity to talk to Gary Crosky (Duane, I believe I mentioned this to you) and he said the same. We don't need that small of openings in the side grating. We can do this when the water level gets down this summer. Kim

04/28/09 6:32pm.....Lake Level is 792'7" because of the large amount of rain and flooding conditions in the Clinton County area. Contacted Gary Croskey to ask if opening the primary spillway valve would help lower the lake level faster. He said that the spillway has been designed to handle as much water as the piping system can handle. Opening the valve during these conditions would not increase the flow enough to mater. I received emails from Gary Karcher and David Pursel expressing concern about the levels. I sent both a reply letting them know how the dam system functions and the limits to the association's control.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 04/27/09 12:03am..... Gary Croskey's e-mail response was "Sounds like a good plan." Let Dan Brown know so he could move ahead with the fencing project.
- 04/27/09 11:02am..... Sent email to Gary Croskey requesting his recommendation on the replace and addition of new split rail fencing on the dam.
- 04/25/09..... The end of the culvert under the Price Rd. pedestrian crossing at the west end of the MD was blocked with cattails, dirt and debris. Some of the material was removed to allow water to drain. The ditch should be cleaned out to keep water from backing up.
- 04/25/09..... Began to remove the second row of old wire fence on the west end of the MD. The adjacent property owner stopped me and said if the board was ever going to replace the fence with a nicer style he would be interest in possibly paying for half. I told him I would bring it up with the board.
- 04/22/09 12:04pm..... The west end of the MD and the area on lot #57 in questions was checked and the excess water is not present although the ground is very wet and spongy. This may be due to the time of year and the rain from the day before. The area will be kept under watch as recommended.
- 04/22/09 10:32am..... Talked with Gary Croskey and explained what was observed. He said if there was not any real flow of water carrying material and no visible sloughing or boils it should be Ok. This time of year ground water and run off is more common. The area should be monitor and looked at during the next inspection.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

April 2009

Dam Inspection for April 21, 2009 Board Mtg.

04/21/09..... Lake level is 792'2"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of two concerns (see 04/13/09 8:39am., and 04/21/09 4:45pm notes).
2. Kim Dutcher said he had not heard any complaint from anyone about the paid in full check sent for the Dam Riser Modification. He was going to look in to it.
3. I will be looking into if we might be able to get our dam riser stoplog removal tool. Or at least get the drawings/plans so we can have a set made.
4. Now that the snow is gone I will get quotes for the stump removal on the back side of Closure #1 Dam.
5. If the board would like I can pursue getting quotes for walk behind brush mower.

04/21/09 5:04pm I called Gary Croskey our Dam consultant and left a message about the concern.

04/21/09 4:45pm..... It was observed that on lot #57 on the west end of the Main Dam there appears to be a large wet, soggy, soft area of ground that runs for most of the downhill slope leading to Price Road. While I was walking the area Chad ??? Introduced himself as a past owner of the lot. He told me that it is usually like that until a little later on in the year when it dries out. Note: It had rained earlier but it looked to be in excess of what might be expected from rain alone.

04/17/09 7:45am..... Duane attended the Michigan Dam Owners Workshop. Over 100 people attended with 40 people on a waiting list. It was an excellent class lots of information. Although the LVPOA Dams System is rated as low risk and does not need an Emergency Action Plan (EAP) Duane will begin to develop a plan using the information and materials from the workshop. The cost (\$30.00) was paid by Duane and will be turned into the treasurer for reimbursement.

04/16/09 11:21am..... Told Jack about Observation at the C2D culvert. He said he would go and look at it and that the county may place some temporary material there to reinforce it until a plan was developed to correct it. Any repair or replacement work would probably be done later this summer.

04/13/09 8:39am..... It has been determined that the culvert on C2D will no longer be used as a lake level control device. While removing the stop log fixture, it appeared that water was being pulled down the side of the pipe to the rusted slot on the bottom. There is also a strange churning of water about two foot into the opening. Jack Powell was called and a message was left to inform him. Jack, Duane and Al Burnie have already been in contact and have been looking into the repair or replacement of the culvert.

04/06/09..... Contacted Jack Powell and told him that he did not need to research changing the C2D culvert and that it was recommended to us by our dam consultant that if replaced it should be with the same design.

04/06/09..... Talk with Gary Croskey our Dam Consultant about enlarging the C2D culvert to allow more water to flow out of the lake during time the lake receives excess water. Gary said the road and dam setup limits what can be done so any change would be minimal to the flow. His recommendation was if replacement is called for that the same design is used.

04/04/09 11:18am..... The gravel on the MD access road and parking area of the north launch has stabilized enough for vehicle traffic. The secondary lock has been removed from the gate to allow member access.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

- 04/01/09 4:30pm..... Duane Albright, Kim and Meg Dutcher attended the FEMA meeting. It was more of an informal gathering to allow people in the area to review the information the county has and will use to create and map the 100 year flood plan. Kim has supplied some additional information to the county and their firm mapping the project that may assist in making the map more accurate. Some home may be recorded as being in the flood plan as it shows now. It is my belief that it would not be cost effective to have the Association participate in the funding of any surveys to better define the line. Only the lake shore owners with homes within the flood plan area would benefit from this by proving they are outside this area. One of the benefit to proving a home is not in the flood plan is that flood insurance may not needed. My recommendation would be that home owners that feel they could benefit by proving their home is not within the 100 year flood plan area join together as a group to hire a surveying company to pursue this.
- 03/26/09..... Duane Albright, Al Burnie and Jack Powel met to look at and talk about some of LVPOA culvert. It included the C2D culvert. Although there was approximately 18 to 20 inches of water flowing through the pipe, Duane explained that it was observed during this winter when there was not any water in the culvert a 4 X 24 inch section going back inside along the bottom had rusted out. Jack was going to look into the options. He said that the county may cover the cost of replacing it with the same type of setup. He was going to look into the possibility was asked if a control device could be built into the culvert and if it could be enlarged. He recommended that the Culvert not be used as a lake level control device as it is now and that it would be better to have some type of control in advance of the culvert but not attached to it. His recommendation is being taken under advisement at this time.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

March 2009

Dam Inspection for Mar. 16, 2009 Board Mtg.

03/00/09.....Lake level is: *NO ENTRY*

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly.

03/08/09 1:00pmLVPOA Annual Meeting. Set up at 12:30pm.

Annual Meeting Outline:

- Summary of Main Dam Riser modification project
 - Contractors payment
 - Metal work
 - Stop log removal tool
 - Painting
- Maintenance projects
 - Removal of tree and stumps
 - Riprap
 - Peninsula Way culvert stop log fixture
- Equipment to be purchased
 - Safety equipment
 - Walk behind style mower
- North Boat Launch and Parking Area
 - Part of Parks & Recreation report
- Vehicles & ORV on dam
 - Off limit areas
- Muskrat Control
 - 61 trapped
- Operation and Maintenance Plan
 - Documentation
 - Log
 - Consultant
- Begin to prepare for 2010 dam inspection
 - Inspection
 - Elevation Survey
 - Documentation

03/05/09 7:00pm..... Our trapper Keith Putnam returned the LVPOA gate key that he was given to access the lake while trapping. It was given to Clint at the pre-annual meeting.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

February 2009

Dam Inspection for Feb. 16, 2009 Board Mtg.

02/14/09.....Lake level is 792'4"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly.
2. The North Boat Launch Access Gate was double lock and a sign placed 02/08/09 to let members know access to the dam would be closed until the frost has come out of the ground. There is notable damage to the dam from vehicle and ORV that have been driving and parking on the dam in an attempt to avoid getting stuck on the access road and in the parking area. Signs and poles have yet to be placed to keep vehicle from entering the restricted areas so members may be unaware of the damage they are causing.
3. The Riser Valve was opened 4" from 02/01/09 to 02/07/09 during the thaw of a considerable 6" to 9" snow cover which prompted warnings of possible flooding. The lake level was dropped to and then maintained at a level of 791'5". During this time the riser was also completely frozen closed so the snow was removed from the ice on and around the riser to help the sun thaw the ice so the natural flow into the riser would begin. 02/07/09 the valve was closed.
4. 02/09/09 The lake level was holding at 791'5" so the Closure #2 Dam stop logs were reinstalled.
5. 02/10/09 another weather system brought Flood Warning and rivers around mid Michigan were flooding. The lake level was holding at 791'5" and the ice had thawed enough for water to flow into the rise so the valve was not opened. The system that brought the flood waters has raised the lake level to 792'4"
6. Before any stop log fixture is made or installed on the Closure #2 Dam Culvert it needs to be inspected. It was noted during an earlier inspections that the culvert bottom has rusted out at least 2" from the lake side opening going into the pipe

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

January 2009

Dam Inspection for Jan. 20, 2009 Board Mtg.

01/20/09.....Lake level is 791'11"

1. Monthly visual inspection completed. It appears to be intact and operating properly.
2. Noted snowmobile traffic entering from Price Road.
3. Monitoring ice formation on the modified Main Dam Riser overflow area and how it's affecting the water flow.
4. Two sets of Macro Epoxy paint was purchased from Concrete Cutting for \$202.28. It is being kept in my (Duane Albright) basement to keep it from freezing. The plan is to wire brush/power wash and clean the riser this summer so it is ready to be painted as soon as the water is lowered next fall 2009.
5. Joe Pulver the new Managing Director of the County Road Commission contacted me in regards to my request to have a county tractor mow the backside of Enclosure #1 Dam and the waters edge of the Main Dam. He said the county cannot operate their equipment on private property.
6. Waiting to hear the delivery status of the stop log removal tool.

2009 Dam Budget

1. Recommending the purchase of a walk behind brush mower for dam and trail maintenance (BillyGoat BC2403 HE13, 24" 13hp Honda electric start w/tax \$3153.50).
2. Recommending the purchase of 2-Safety Harness (\$140ea.) / Lanyard sets for the dam riser (\$100ea.).
3. Recommending the purchase of 2-Muskrat Traps. (Cage trap is \$25 to \$100) (Snap trap is \$5 to \$10)
4. Funds needed to pay Gary Croskey for his services as dam inspector/consultant. (\$200 retainer, \$100 per hour consultant fee).
5. Funds needed for a permanent stop log fixture to be constructed and attached to the upstream end of the Enclosure #2 Dam culvert. (Metal work by Dick Thornburg \$500) (Additional materials \$500).
6. Funds needed for Metal work on the Main Dam weir/trash rack needs to be modified to allow for better water flow. Modifications have not been designed yet so I'm not able to get a quote for the project.
7. Funds needed to remove several tree stumps on the back side of Enclosure #1 Dam and one on top of the Enclosure #2 Dam culvert. There is also a dead tree by the upstream side culvert opening that should be removed. Quote as soon as the snow melts.
8. Funds needed to remove brush and tall weeds from the upstream side of Enclosure #2 Dam. To be quoted.
9. Funds needed to hand mow the top third of the downstream slope of Enclosure #1 Dam with a weed whip. The top of the slope is too steep to use a machine and a tractor with a mowing arm is not available. It should be done 2-3 times each year as needed. Needs to be quoted.
10. Funds needed to install a fence to close off ORV access from Price Rd. to the downstream embankment of the main dam. Needs to be quoted.
11. Create a program to have a row of Rip-Rap placed along the water's edge of the Main Dam and Enclosure #1 Dam.
12. Create a program to place Tri-Lock on the Overflow area of Enclosure #1 Dam.

Muskrat Trapping

1. Trapper Keith Putnam has stopped trapping for the season and will be returning the gate key.
2. This season a total of 61 muskrats were trapped. 21 from the lake and 40 from the overflow pond.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

December 2008

Dam Inspection for Dec. 09, 2008 Board Mtg.

12/09/08.....Lake level is: *NO ENTRY*

1. Monthly visual inspection completed. It appears to be intact and operating properly.
2. Zak at Concrete Cutting will sell the two sets of Macro Epoxy paint to us for \$202.28. If I can get a check made out to them I will arrange to deliver it and pick up the paint. The plan is to wire brush and clean the riser this summer so it is ready to be painted as soon as the water is lowered next fall 2009.
3. 11-22-08 a Billy Goat brush mower was rented from Capital Equipment Supply for the day to mow the back side of Enclosure Dam #1. (Please reimburse Duane Albright in the amount of \$84.80 for the rental fee.) Also thanks to Dan Brown for running the association tractor to mow the tall grass along the water's edge and the extreme edge at the base of the dam along Price road.
4. There are several tree stumps on the back side of Enclosure Dam #1 and one on top of the Enclosure Dam #2 culvert that should be removed. We should rent a portable stump grinder this spring 2009 and remove them. We will also need grass seed and some dirt to fill the holes.
5. Spoke with Ron Armbrustmacher 989-224-3274 ext. 230 in regards to the possibility of having a county tractor mow the backside of Enclosure Dam #1 and the water's edge of the Main Dam / Enclosure Dam #1. He said he would have to contact Joe Pulver the new Managing Director for his input.

Recommendations

1. Purchase a walk behind brush mower for dam and trail maintenance, 2-Safety Harness / Lanyard sets for the dam riser and 2-Muskrat Traps.
2. Design, build and install a permanent stop log fixture to be attached to the upstream end of the C2D culvert.
3. Create a program to have a row of Rip-Rap placed along the water's edge of the MD and C1D.
4. Create a program to place Tri-Lock on the Overflow area of C1D.

Muskrat Trapping

1. The ice is now thick enough for our trapper Keith Putnam to begin trapping around the impoundment pond. He reports that as of 12-09-08 he has gotten two large adults and noted that the bait has been taken from some of the other traps. Because of the lack of activity Keith does not plan on setting any more traps on the lake itself.
2. I have a call into Earl Flegler 517-373-9358 of the DNR. The plan is to set up a year round trapping program for the dam area.

11/25/08 9:07am.....E-mail from Kim Dutcher to Jim Bliskey (Huron Consultants)

Jim,

This e-mail is to inform you I, as representative of LVPOA for this contract, wish to finalize the primary spillway modification project. I believe all the work is done except for the delivery of the stop log removal tool. After delivery of this, please send your final invoice. At this time I also request that items which had been performed and billed by Greg Hoffman and paid by LVPOA, then duplicated by Huron after Greg's departure not be included in this invoice.

This should have been a very simple project, but due to the lack of oversight and engineering which was to be provided by Huron Consultants, this contract has caused me far more time than necessary, with much miscommunication and countless delays. This poor performance has also been verified by e-mails received from Concrete Cutting. Our contract was with Huron Consultants, but Huron then turned it over to Concrete Cutting who had no engineering staff and had to rely on direction from Huron, which I feel was marginal at best. People from Huron came to the site to do work and had to borrow equipment from me. Then LVPOA got billed for the work which could not have been done without much help from me and other LVPOA members.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

An e-mail to Huron Consultants from Concrete Cutting was copied to LVPOA. It indicated a payment from Huron was being delayed. An invoice dated 3/11/08 was received by LVPOA with items by Huron that were in contention. One line item was the amount requested by Concrete Cutting. You asked in an e-mail that we "at least pay what is due the contractor" which was \$14,703.90. A check for this amount was immediately sent to Huron. The last invoice received by LVPOA was dated July 19, 2008. There were several items in that invoice in question. Some were to give instructions to Concrete Cutting for work that should have been in the original work last fall through Greg Hoffman.

Please go through your invoice files and get back to me as soon as possible. Concrete Cutting has done their work satisfactorily and should be compensated as soon as possible.

Kim Dutcher

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

November 2008

Dam Inspection for Nov. 18, 2008 Board Mtg.

11/15/08.....Lake level is 791'8"

1. Monthly visual inspection completed. It appears to be intact and operating properly.
2. New MD Boat Ramp official completed.
3. Need status of removal tools being fabricated
4. The Riser Sides are in need of paint
5. Contacted Zak at Concrete Cutting who said they have two Macro Poxy paint kits leftover from the riser modification job. This is what was used on the top and cut areas. He would sell them for \$103.00 for one set or \$205.00 for both. Sherwin-Williams also sell this paint as a special order. Their price is \$105.00 per set.
6. The areas of the Dam Riser that have not been painted will be wire brushed and cleaned this coming summer 2009. These areas will be painted when the water level is lowered at the end of the 2009 season.
7. C1D Shore line and downstream bank in need of mowing
8. Monthly inspection completed and it appears to be intact and operating properly.
9. C2D downstream side is in need of mowing.
10. There is a hole on top of the culvert that needs to be filled. There is also an old stump next to the hole that should be removed.
11. C2D Sstop logs have been removed for the season and will be reinstalled next spring.
12. Because the lake level is low no water is flowing though the C2D culvert at this time.
13. Dan Brown asked if a row of trees could be planted at the base of the Main Dam along Price Rd. to improve the look of this area.

11/15/08 11:39am e-mail to Gary Croskey our dam inspector

Afternoon Gary,

I met with you on the Lake Victoria dam earlier this year with Kim Dutcher and a few others. One of the conversations was about planting trees by the boat landing entrance along Price Rd. At that time you gave us a green light for trees in that area. Since then I've been asked to see if trees could be planted the rest of the way along the base of the dam on the lake side of the Price road ditch running east/west. I told them I didn't think there was enough room for any trees in that area but told him I would ask you for your opinion. If you could let me know I can be reached by e-mail or a call to my Verizon cell 517-231-0717.

Duane Albright

Lake Victoria Association

11/15/08 11:39am e-mail from Gary Croskey our dam inspector

No tree at the base of the dam!

A definite no.

Gary F. Croskey, P.E.

14. I contacted Earl Flegler's office in an attempt to get permission from the DNR to begin trapping early. He was on vacations so I dealt with Dave Dominick who told me he could issue a Nuisance Permit but no pelts could be kept. All animals trapped before the season starts would have to kill and destroyed.
15. Unable to begin early Keith Putnam our muskrat trapper began trapping on 11/11/08. As of 11/13/08 total of 21 muskrats had been trapped. Keith said most of the rats were young. It appears that last year's trapping has really lowered the population. Keith will be limiting his visits because of the lack of rat activity on the lake. Keith tried to access the impoundment pond but the muck was so deep he would only sink and get stuck when trying to move along the shoreline to set traps. He plans to wait until the ice forms at which time he can place his traps through the ice.
16. The gate key he was given to access the boat ramp will be returned at the end of the trapping season.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

October 2008

Dam Inspection for Oct. 20, 2008 Board Mtg.

- 10/19/08**.....Lake level is 789' 10"
- 10/30-08 Last Two sections of new MD Boat Ramp have been poured.
- 10/24/08 11:00am..... Three sections of new MD Boat Ramp have been poured.
- 10/20/08..... Work begins on MD Boat Ramp.
- 10/19/08 8:00pm..... MD Boat Ramp meeting to review plans and options for rebuilding the North Boat Ramp.
- 10/17/08 Met with Keith Putnam our muskrat trapper. When the season opens 11-11-08 he will begin trapping in both Lake Victoria and the impoundment pond. He was also given a gate key so he has access for his boat.
- 10/05/08 10:57am The water level is now low enough to have the north ramp removed. Meg and Kim Dutcher walked by it on their walk Friday and noticed that the concrete is now out of the water.
- 10/03/08 4:39pm..... E-mail from Kim Dutcher to Jim Bliskey (Huron Consultants)
Rick Olson and I will be on-site on Tuesday to do a final inspection of the outlet structure and area for completion of Concrete Cutting & Breaking Co.'s work. Kim could you, or one of your committee meets us at the gate to let us in with our boat to inspection on Tuesday, October 7, 2008?
Huron's crew will be the end of the week to work on the stop logs. I will contact you on Monday to let you know which day they will be in to do corrective work on the stop log bolt heads. Likely, it will be Friday, October 10th. But, I will verify this. This should stop the leaks that you mentioned.
1. 10/03/09 monthly inspection completed and it appears to be intact and operating properly.
 2. The Lake level is being lowered to approximately the 788' 6" level to allow for the scheduled maintenance work on the North Boat Ramp and areas of the Lake Shoreline. An additional notice was placed on the mailboxes of all shoreline property owners as an additional notice to alert them and ask them to take appropriate action with a watercraft. The MD boat ramp approach has two potholes that will be repaired as part of the work on the drive and parking areas.
 3. The cattails and all other vegetation needs to be removed from the shoreline per the dam inspection recommendations. This will help with the visual inspections and discourage borrowing animals.
 4. During the riser modification work there was some damage to the shoreline, slope and crest that had not been repaired. Kim Dutcher is available to answer any questions about the status and schedule.
 5. A small amount of debris was removed from the MD Riser trash rack.
 6. Some of the Riser metal work will be modification to comply with the dam inspection recommendations. Kim Dutcher is available to answer any questions about the statue and schedule.
 7. The Cedar stop logs were removed, cleaned and reinstalled. In addition two metal bolts were added toward the ends to assist in their removal if needed.
 8. The Annual Test of the Main Dam Riser Slide Gate was conducted and the valve is in operational order.
 9. An adjustment was made to correct a small binding problem with part of the MD Riser grate and the control shaft.
 10. The lower metal work has been modified with a hinge and latch for access to comply with the dam inspection recommendations.
 11. The Riser Sides will need to be painted with epoxy paint. Paint will need to be purchased.
 12. We will be receiving two metal removal tools. They are in the process of been fabricated
 13. The ground cover on the C1D slopes should be cut and then maintained on the same schedule as the Main Dam.
 14. There is at least one tree that is within the 10' downstream embankment toe that should be removed.
 15. The remains of the woodchip pile by the spillway should be removed and the area seeded.
 16. The C2D stop logs have been removed for the season and will be reinstalled next spring.
 17. There is a hole in the downstream slope directly above the culvert that will need to be repaired. Some fill dirt will be needed. Not sure if it is from an animal or just washout.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

18. The ground cover to either side of the C2D culvert on the downstream slope should be mown when the park is maintained so it is clear for inspections and maintenance.
19. Action needs to be taken to remove the borrowing animals from the dam. An elevation survey will need to be done for the 2010 dam inspection to check for any settlement.
20. A maintenance plan is being developed. (The dam is not a high risk dam so an Emergency Action Plan is not needed).

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

September 2008

Dam Inspection for Sept. 16, 2008 Board Mtg.

09/16/08.....Lake level is 792'00"

1. Monthly visual inspection completed. It appears to be intact and operating properly.
2. Huron Consultants bill – board voted to hold off on paying invoice until the work is done. Kim & Duane to work with Huron Consultants regarding the dam and the bill.
3. Dam's doing dam well after the 6.5" of rain... just like it should (except for the issues with the contractor). Run through list from consultant Gary Croskey.
Kim and Dave went Sunday to check the dam/water level. Duane opened peninsula way valve. Water going over top like it should, pipe is getting filled and taking out maximum water. Last week contractor has put on epoxy and hilte bolts, but they didn't put the bolts back on – epoxy must cure. We were perturbed with this. Huron has not been guiding the subcontractor, and they have until Friday (Sept. 19) to get this straight or they will be fired from this job. Subcontractor has called Kim with new plans, drawings, etc. They cannot get on the dam until late this week (when it dries out). Plan to let down lake now (once we can safely close the valve) – down to 788'6" or so (792 now), to do the repairs on the north boat launch. (each 1" of the lake is about 4 million gallons. We are losing about 750,000 gallons per hour going downstream over the top of the spillway.)

09/17/08 10:10am.....E-mail from Kim Dutcher to Jim Bliskey (Huron Consultants)

Jim

A few observations about the drawing.

1. It shows the grate dimension at 55". This is the total width of the spillway and the grate is not that wide. The lower grate is about 5" short of the spillway on each side which would make the 55" dimension actually about 43"!
2. The inspector indicated he wanted the grate sides sloped. LVPOA will do this after this contract ourselves if necessary. However, to do this, the hinge will have to be shortened by 8" on each end.
3. The hinge arrangement is attached to the vertical grate. If ice should damage the lower grate, it would then also damage the vertical grate. Suggestion?? : Attach the grate/hinge to the lower grate platform? ! ? ! ? !

Kim

09/16/08 9:22am.....Letter to Jim Bliskey (Huron Consultants) from Kim Dutcher. Cc: Daren

McLaughlin; rolson@concut.com

Kim,

Attached is the hinge arrangement that is being proposed by Concrete Cutting. I will be reviewing today for approval. You will be copied on the reply correspondence regarding this item.

Also, once the hinge arrangement is accepted for fabrication, I will get a timeline from CC&B for the schedule of installation for completion. The stops logs will be taken care of after this work is completed and the water level is lowered. A log puller will be provided for the stop logs.

If you have any questions call, or e-mail me.

jfb

09/15/08 5:07pm.....E-mail from Rick Olson (Concrete Cutting & Breaking Co.) to Jim Bliskey (Huron Consultants)

Jim,

Attached is a sketch of our intended hinge access. We will pre-fab the hinge at our facility and attach it to the structure once on site. As with the current items these will be painted with a galvanizing product and all bolts, nuts, washers will be stainless steel. Let me know as soon as possible and we will proceed with the fabrication.

Thanks,

Rick Olson

DAM LOG

Lake Victoria Property Owners Association

**Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)
Concrete Cutting & Breaking Co.**

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

09/15/08 12:55pm..... Letter to Jim Bliskey (Huron Consultants) from Kim Dutcher.

Jim,

Attached are 5 pictures showing the original valve gearbox attachment and the new reattachment of the gearbox. The threaded gearbox shown in close-up of #1 was originally bolted to channels near the top of the riser before it was cut down to the new height shown in original attachment. The design for the reattachment of this should have been the responsibility of Huron Consultants (Greg), but either Huron did not do this design or they did not relay this information or Concrete Cutting did not follow directions. From what I am experiencing, it seems that that is the way this whole project is going.

I gave Huron a drawing with instructions of what and how I wanted the riser to be modified and how it should function. Huron was to do all the detail work and have the project completed. Again my conclusion is that either Huron did not do this or Concrete Cutting did not do what they were instructed to do. It is now way past the time this work should have been completed, and we have been left with an inoperable valve. This is totally unacceptable. The control boards are also inoperable. They were installed last winter by one of Huron's people (with assistance by two lake residents), but they still haven't been finished by Huron so they can be removed for lake level control, as specified. Two of us had to fix them after they were installed, since they leaked excessively when the retaining boards were removed. We would have called Huron back about this, but were in no position to leave them as they were.

I have yet to see what Huron is proposing for repairing the grate that is over the shaft. Concrete Cutting apparently has no engineer on staff, and that is what Lake Victoria hired Huron Consultants for. Huron was hired to be the consulting engineering company to oversee this project and does the construction design. I have spent way too many hours checking this work and finding too many errors. Huron has given virtually no guidance to their subcontractors on this project other than send bills for time spent without satisfactory results.

I (representing Lake Victoria Property Owners Association) expect to see a schedule for completion of the work, as well as drawings of the proposed design for the rework of the grate for access to the spillway and a schedule for the completion of the control board work by the end of this week, September 19, 2008 or I will terminate the contract with your company.

Kim Dutcher

President

Lake Victoria Property Owners Association

09/15/08 8:02am..... E-mail from Kim Dutcher to LVPOA Board.

After what I have gone through and what we found last night I am about to fire the contractor and hire another to finish the job. Any thoughts? Approval?

Kim

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

09/14/08 8:58pm.....E-mail from Kim Dutcher to Jim Bliskey (Huron Consultants)

Jim,

The first part (lower section) of this e-mail was sent to the Lake Victoria board Sunday evening concerning the rising water level at Lake Victoria and copied to Gary Croskey, our dam inspector. The second part is the follow up and is being sent to you for your information. Thought you should know this.

Kim

Duane and I went to the dam and after some evaluation decided that we would NOT open the valve for now. There is a lot of water going over the spillway and is about 6" - 8" above the new cut.

It is fortunate for now that we decided not to open the valve as the contractor has removed the nuts from the top of the bolts holding the grate which the valve is attached to and has not reattached them. This leaves us **no way** to operate the valve at the present time. It also appears that the new larger bolts which were supposed to be installed have not been installed. The top of the dam is saturated and very soft so vehicle traffic should be prohibited except for emergencies.

When the level gets a bit lower and the bolts are installed so we can operate the valve we will then open it to relieve the water faster.

Duane and I will be monitoring the level frequently.

Kim

09/14/08 6:53pmE-mail from Kim Dutcher: The lake has risen over 11" since Friday and will continue to rise over the next 24 - 48 hours. At 7 pm this evening, Duane and I will be going out to the spillway to relieve some of this. To expedite the lowering, we will open the valve for the next few days. This will be monitored around the clock.

- We would normally be starting the drawdown in October, but due to the rapid rise, we are starting now. It is approximately at elevation 792'-6" and flowing over yards. With the anticipated extra rise, we believe this is the best action.
- Thankfully it looks like the rain will be letting up so we don't get soaked.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

August 2008

Dam Inspection for Aug. 19, 2008 Board Mtg.

08/19/08.....Lake level is: *NO ENTRY*

1. Monthly visual inspection completed. It appears to be intact and operating properly.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

July 2008

Dam Inspection for July. 00, 2008 Board Mtg.

07/00/08.....Lake level is: *NO ENTRY*

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

June 2008

Dam Inspection for June. 17, 2008 Board Mtg.

06/16/08.....Lake level is 791'11"

The Lake level is 2" above the 791.9 mark. It has been determined that this is within operational limits

Main Dam

1. The main dam boat ramp approach has two potholes that need to be filled.
2. During the riser modification work there was some damage to the upstream shore, slope and crest that had not been repaired. Kim Dutcher is available to answer any questions about the statue and schedule.

Dam Riser:

1. Appears to be intact and operating properly.
2. A small amount of debris was removed from the trash rack.
3. Some of the Riser metal work was not completed when the modification were done. Kim Dutcher is available to answer any questions about the statue and schedule.
4. The Annual Test of the Main Dam Riser Slide Gate will be scheduled for the beginning of fall. This way if a problem occurs while opening or closing the gate there will be less of an impact than if the test is conducted during the peak boating season.
5. There are plans to install a solar marker light.

Dam Closure #1

1. It's recommended that the waist high ground cover on the downstream slope be cut.
2. There is a trash pile at the end of the dam. I am not sure if it is on the dam or private property. If on the dam it should be removed. I will need to find out where the dam ends.

Dam Closure #2

1. The ground that was disturbed during the installation of the dry hydrant has been taken care of and grass is beginning to appear.
2. Adjustments have been made to the stop board to allow water to flow over the top during times of high water or flood conditions.
3. Still looking into a permanent stop board fixture.
4. There is a hole in the downstream slope directly above the culvert that will need to be repaired. Some fill dirt will be needed. Not sure if it is from an animal or just washout.

Signs of borrowing animals:

1. Keith Putnam, the trapper who was trapping here last muskrat season, came out and looked at the areas in question. Although he didn't think the holes were active he still placed traps. Nothing was caught. I would like to thank Keith for his help with this matter.
2. The final report will be completed and returned to Earl Flegler at the DNR.

Recommendation from the 2005 inspection:

1. An elevation survey will need to be done in 2010 during the next dam inspection to check for any settlement.
2. Develop an Emergency Action Plan.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

May 2008

Dam Inspection for May. 20, 2008 Board Mtg.

05/20/08.....Lake level is: *NO ENTRY*

Deficiencies found during the 2005 inspection:

1. Develop a written Operation & Maintenance Plan. - Yet to be done.
2. Develop a written Emergency Action Plan. - *Yet to be done.*
3. By 2006 conduct a video inspection of the Principal Spillway. - *Done January 2006.*
4. Remove trees & brush from the downstream slope and toe of the Main Dam Embankment and Price Rd. ditch. - *Done but will be an ongoing project.*
5. Remove trees & brush along the downstream slope and toe of Closure #1 Dam least 10' from the toe of the downstream slope. - *Done but will be an ongoing project.*
6. Principal Spillway can be modified. - *Most of the project has been done but it is still a ongoing project.*
7. Install Air Vent Pipe within the Riser. - *Done by Dick Thornburg.*

Recommendation from the 2005 inspection:

1. An elevation survey should be done at the time of the next dam inspection to check for any settlement. -*To be scheduled for the 2010 inspection.*
2. Main Dam Riser Slide Gate should be tested annually. - *A maintenance schedule is being created.*

Visual inspection of the dam system was conducted on May 17, 2008:

1. As part of the developing Operation & Maintenance Plan a visual inspection of the dam system will be performed once a month ideally the week before each board meeting.
2. The lake level was within operational limits. - *A method or standard to report a monthly lake level will be developed.*
3. Early this month a visit to the Main Dam Riser was conducted at which time the Riser appeared to be intact and operating properly. As an ongoing project some of the final modifications have not been completed. - *Kim Dutcher is in charge of the project and can respond to any questions.*
4. Damage from the Riser modification work to the crest and upstream shore on the Main Dam is noted and is in need of repair. - *Kim Dutcher is addressing this issue as part of Dam Riser modification project.*
5. Two potholes are noted in the approach of the Main Dam Boat Ramp that need to be filled and repaired. - *Because of the continues wear from vehicles in this area we may want to discuss the possibility of extending the concrete boat ramp up to include the approach also.*
6. There are signs of borrowing animals on the upstream side of the Closure #1 Dam and in the Price Rd. Ditch. If possible these animals should be trapped and removed.
 - *A permit has been obtained and is good for the month of July 2008.*
 - *A report will need to be filed with the DEQ at the end of the month logging any animal taken.*
 - *A trap is needed.*
7. To maintain the 791.9 impoundment level three new 2"x6" boards were purchased to make a new stop logs. It was put in place earlier this month and will block the flow of water through the Dam #2 Closure culvert spillway.
 - *After a better understanding of the spillway operations it is apparent that the stop logs need to be modified so water above the 791.9 level can flow over.*
 - *These adjustments will be made before the next board meeting.*
 - *I would recommend that a permanent fixture be made that will be attached to the Dam #2 Closure culvert. It should hold Stop logs and include a trash rack or catch of some type.*
8. The grading and seeding of the new dry hydrant area by the Closure #2 Dam needs to be completed by CAFR.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

April 2008

Apr. 15, 2008 Board Mtg.

04/21/08.....Lake level is 792'2"

1. Monthly visual inspection completed. The dam system appears to be intact and operating properly with the exception of two concerns.
2. 4/13/09 8:39am. While removing the stop logs from the culvert extension on the lake side of Closure #2 Dam it appeared that water was being pulled down the side of the pipe to the rusted slot on the bottom. There is also a strange churning of water about two foot into the opening. Called Jack Powel to inform him. I have been working with Jack and Al Burnie about fixing or replacing this culvert. I contacted Jack 04/16/09 11:21am and discussed what I had observed. He said he would look at it and that the county may place something there as a temporary reinforcement before any needed repairs are done later this summer.
3. 04/04/09 11:18am. The access road and parking area of the North Launch has stabilized so the extra lock was removed. Until the poles have been positioned a set of stakes with flags have been place to outline the area **vehicles are not allowed.**
4. **04/21/09 On Lot No. 57 on the west end of the Main Dam there appears to be a large wet, soggy, soft area of ground** that runs for most of the downhill slope leading to Price Road. While I was walking the area I Chad ???? Introduced himself to me as a past owner of the lot. He told me that it is usually like that until a little later in the year when it dries out. This area should be watched. 04/21/09 5:04pm I called Gary Croskey our Dam consultant and left a message about the concern.
5. 04/01/09 4:30pm. Duane Albright, Kim and Meg Dutcher attended the FEMA meeting. It was more of an informal gathering to allow people in the area to review the information the county has and will use to create and map the 100 year flood plan. Kim has supplied some additional information to the county and their firm mapping the project that may assist in making the map more accurate. Some home may be recorded as being in the flood plan as it shows now. It is my belief that it would not be cost effective to have the Association participate in the funding of any surveys to better define the line. Only the lake shore owners with homes within the flood plan area would benefit from this by proving they are outside this area. One of the benefits to proving a home is not in the flood plan is that flood insurance may not be needed. My recommendation would be that home owners that feel they could benefit by proving their home is not within the 100 year flood plan area join together as a group to hire a surveying company to pursue this.
6. 04/17/09 Duane attended the Michigan Dam Owners Workshop. Over 100 people attended with 40 people on a waiting list. It was an excellent class lot of information. The cost was \$30.00 that will be turned into Clint for reimbursement.
7. Kim Dutcher said he had not heard any complaint from anyone about the paid in full check sent for the Dam Riser Modification. He was going to look in to it.
8. I will be looking into if we might be able to get our dam riser stop log removal tool. Or at least get the drawings/plans so we can have a set made.
9. Now that the snow is gone I will get quotes for the stump removal on the back side of Closure #1 Dam.
10. If the board would like I can pursue getting quotes for walk behind brush mower.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

March 2008

Mar. 18, 2008 Board Mtg.

03/18/08.....Lake level is: *NO ENTRY*

1. Review of new invoice – will call to discuss them. We haven't touched the valve this year – yes! Kim described how the lake flows.

Mar. 11, 2008 Annual Mtg.

03/11/08.....Lake level is 79'???"

Dam committee - Randy Chesney, Dan Brown, Ken White, Meg Dutcher, & Scott Danek
15" deep to bottom of Lake

Bids options - to fix dam

1. Change structure - cut top level
2. DEQ - maintenance & operation plan
3. Modify Structure

Bids from:

1. Northern Boiler - declined to bid.
2. Spicer \$64,000
3. Huron Consultant - \$58,200

This of course is more than 1 year of our total budget. A special assessment of \$50.00 per lot over 5 years would cover it. Discussion followed:

Mike Kessler - Check with CV's - Army Corp engineer group and need an insert to prevent wear? Kim
- hand wheel will be detached so no one can just open the dam

Mike Roberts Leaky boards?

Can go to 793' by law

Core drilling? - Not much of structure left

Elaine Brown/Bartholic - Structure integrity?

Kim - checked to see if floats after cutting off top

Brian Kirtz - Dam Needs Safety features for boats not to run into

Dave P - Rainbow Lake collapsed because valve failed to operate

Roberts - Rainbow was 5 feet above flood level

Clint Hawks - what about the dry hydrants?

Dan answered fire chief says soon as ice breaks they will be in and done.

Jim Resh asked what is a dry hydrant. Kim explained.

Don Bracke - will we need to reduce lake level to put in Hydrants? Kim - No.

Clint --when in, check with your home insurance - it might help with your rates.

Moved and seconded to accept the Dam report. Passed.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

February 2008

Feb. 19, 2008 Board Mtg.

02/19/08.....Lake level is: *NO ENTRY*

1. Kim and Dam committee met with Huron Consultants this morning. Raised concerns and questions of work not done, etc. Cut off at 791'9". Getting quote to epoxy-coat entire structure. Huron said they are going to fix things. They had transition of people and sub's, so we are cautiously optimistic that they will fix the issues we have with the work. Need access to the interior without a whole lot of heavy lifting and work. Work will be completed before bills will be paid. Probably another \$20,000 or so to be billed. Also plan to add reflective tape and solar lights. Randy: thinks it's important to protect the concrete as much as possible. Don't have to operate the valve now.

Meeting Minutes Of the February 19, 2008 Lake Victoria Project Status Meeting

The following is a listing of the punch list items that must be addressed by the contractor for the outlet improvement to the control structure for the Lake Victoria Home Owners' Association.

The expanded metal grating must have suitable anchors installed. The anchors shall be at least 5-inch deep; the old anchors installed in the fall of 2007 must be removed. **Use holes/locations from existing bolts for new bolts and holes. Drilling of structure shall be kept to a minimum.** The bolt for the anchors should be at least ¾ inch diameter. These **bolts, nuts and washers** shall be coated to resist rust (**S.S?**). The contractor shall submit data on the proposed bolts and anchors for approval prior to installation. **Bolts should be installed in a cored hole, inverted and sealed with watertight adhesive such as epoxy material and installed in a manner as approved by the product manufacturer Bolts shall have sufficient reveal so as to fasten the grate with washer and nut.**

A shop drawing for the grating as installed shall be provided listing materials and coatings. The lower grate (horizontal) shall be hinged per the proposal. A shop drawing of how this will be hinged shall be provided for approval prior to installation. This drawing shall depict how the moveable grate section will be held back for safe entry into the channel way and valve chamber.

The cut concrete sections shall be epoxy coated as previously agreed to.

The anchors and bolts used to reset the trash rack shall be provided for the as-built plans.

The ladder provided for the structure needs to have a suitable **modification/** treatment or appliance for the top vertical angle section to prevent injury to users.

The dirt fill that was placed in the fall needs to be removed from around the structure. This is not an acceptable material to remain in the lake. **This work shall be done when earth on the dam is stable and not water saturated when more damage to the dam may be caused.**

The disturbed grass area on the bank adjacent to the structure needs to be restored.

The rusted metal **grating** ends **and any other damaged galvanized metal** need to be cleaned and properly coated with galvanizing paint. Provide brand and unused paint in opened containers for the Home Owners use in maintaining the metal grates and ladder in the future.

Additional items:

Create a beveled edge to the top edge of the concrete horizontal surfaces. This is to eliminate the sharp edges **and limit Spaulding. This should be performed at NO additional cost.**

Need a cost to epoxy paint the vertical surfaces of the concrete structure, or cost of the paint material for the Association to secure and use.

Will need unconditional lien waivers from Concrete Cutting & Breaking Co., grating

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D) fabricator and the subcontractor that supplied and placed the soil material for the walkway to the structure.

January 2008

Dam Inspection for Jan. 00, 2008 Board Mtg.

01/00/08.....Lake level is: *NO ENTRY*

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

February 2007

2007 Spring Dam Report

A committee comprised of Randy Chesney, Dan Brown, Ken White, Meg Dutcher and me has been formed to evaluate and make recommendations for the life extension of the Lake Victoria dam and the spillway. Do you realize these structures are nearly 50 years old?

A concern is the spillway and its design. The spillway is the white concrete structure on the north end of the lake which is used to control the water level. The design of the spillway makes it hard to have a controlled release of excess water requiring someone to continually monitor and regulate the lake level by opening and closing the valve. There are level control boards in the face of the spillway for this same purpose. However water pressure on these boards makes it difficult to remove or add boards and they have to be accessed from the top of the spillway which is 6 feet above the boards. The opening for these boards isn't sufficient to allow enough water through for a controlled lake level in the event of heavy rain or snow melt.

Both of these methods can be quite dangerous as someone has to climb onto the spillway to access them in what many times is inclement weather.

Another concern is there is **NO** emergency back up in the design if the valve fails, either closed, or open. We really don't want to be like Rainbow Lake.

The 2005 Dam inspection mentions modification to this structure to avoid overuse of the valve. The committee has asked for quotes from 3 engineering consultants to make changes to the spillway which will address these concerns. The quotes have been returned and will be examined by the committee. The findings will be presented at the annual spring meeting.

Kim G. Dutcher

LVPOA Dam committee chair
President LVPOA

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

January 2006

Jan. 00, 2006 Board Mtg.

01/00/06.....Lake level is: *NO ENTRY*

Lake Victoria Property Owners Association
9513 Buckingham Circle
Laingsburg, Michigan 48848

January 30, 2006

Mr. Paul T. Wessel, P.E.
Dam Safety Program
Land and Water Management Division
Michigan Department of Environmental Quality
P.O. Box 30458
Lansing, Michigan 48909-7958

Dear Mr. Wessel:

In response to your letter dated December 5, 2005, I am providing a written summary of the items included in the 2005 dam inspection and the schedule in which Lake Victoria Property Owners Association (LVPOA) will be completing these items.

Develop a written Operation and Maintenance Plan:

The writing of this plan will be worked on by me and several other board members in the near future. Presently there are at least two board members that monitor the condition of the dam. Water level is monitored daily and the condition of the spillway structure is inspected monthly if not more frequently. Presently, LVPOA has one other board member helping with monitoring so that someone is always 'on duty'. Several other members are near the dam and also help us monitor the dam. LVPOA has a Parks and Recreation and Water Quality positions that assist in the monitoring. The spillway structure has control boards that can be removed to maintain water level and if these can't relieve the volume needed in an emergency situation, there is a 30" knife gate that can be opened. This valve stem is greased and test operated two times a year. Item 5 in the 2005 report is an area that I am following up on since it will greatly enhance the safety of the water level operation and minimize if not eliminate the use of the valve for maintaining water level.

Within the next year, conduct a video inspection of the principal spillway outlet tube:

This was done on January 6, 2006. I am consulting with Gary Croskey, P.E. with the results.

Trees and brush must be removed from the downstream slope and toe area of the Main Embankment Dam and the Price Road ditch. The LVPOA should contact Clinton, etc.

Clinton County Road Commission was contacted and they removed all brush on the Main Embankment Dam along Price Road. LVPOA will have the brush removed from the remaining Dam Embankment East of closure #1 early this spring.

Continue to limit foot traffic and ORV traffic on the crest and slopes of the earth embankments along the entire dam.

Signs prohibiting vehicles **beyond this point** are placed at the edge of the launch site. Access at the end of Peninsula Way has logs placed to prohibit vehicle traffic. Residents use the top of the dam as a safe route to walk around the lake rather than along Price Road. The use is quite infrequent.

DAM LOG

Lake Victoria Property Owners Association

Record of activities for the Main Dam (MD), Closure 1 Dam (C1D) and Closure 2 Dam (C2D)

The principal spillway can be modified to reduce the frequency of the knife gate operation.

LVPOA will be contacting an engineering firm to look into what can be done for these modifications and will be contacting the DEQ and consulting with Gary Croskey as these findings progress.

An air vent for the outlet pipe should be installed within the riser. The vent pipe would provide smooth flow transmission to the tube and minimize the potential of air entrainment that can lead to vibration and stresses to the pipe.

This was completed January 19, 2006.

At the next dam safety inspection, conduct an elevation survey to detect any settlement of the earth embankment dams. The crest of the Main and Closure #1 Dam should be compared to the survey conducted in 2000.

This will be included in the specifications for the 2010 Dam Safety Inspection.

If there are questions or comments about this report, please feel free to contact me.

Kim G. Dutcher

LVPOA Dam committee chair
President LVPOA

Ph. 517-651-5120
9513 Buckingham Circle
Laingsburg, Mi. 48848

cc: Mr. Gary Croskey, P.E..