

**AMSTON LAKE HEALTH COMMITTEE**  
**Regular meeting August 18, 2020, 7:00 PM**  
**Minutes**  
**Zoom meeting**

**Call to Order:** 7:03 PM

**Roll Call of members:**

Attending: Jeff Arpin, Joyce Clark, Al Fichtel, Frank Hoisl, Les Parlin

Absent Kathy Feldman, Kathy Garvie

Attending Guest: none

**Approve May Meeting Minutes**

1<sup>st</sup> Frank Hoisl, 2<sup>nd</sup> Joyce Clark, Minutes unanimously approved

Meeting minutes are put on ALH website after comment resolution of member present at meeting

**Beaches and ROWs**

- Updates to ongoing or future efforts
  - Joyce noted there was a lot of sand that was removed from the detention basins and piled on the side that needs to be removed. Al noted that this area is an issue with a lot of sand that keeps filling the detention basins. We need figure where the sand is coming from and resolve. (Al, Action 139)
  - Frank mentioned that we need to coordinate better with Beaches and ROWs (B&R) there will be overlap as far as our activities such as placing silt fence on beaches to keep sand from washing into lake over the winter and coordinating the lowering of the lake to do wall repair at Oakland ROW.
  - Jeff met with Teri Nixon about trimming brush on lollipop. Jeff worked with AER and the committee to provide recommendations.

**Erosion Control**

- **Manion Road Catch Basin design modification**
  - July meeting results with Lebanon town Officials, Jeff Arpin
    - 7/22 Jeff issued meeting summary to ALHC detailing the town meeting discussions
    - 8/10 Town of Lebanon provided a letter from their engineer summarizing the meeting. Letter dated 8/6
    - Jeff noted that there were differences in the meeting summaries in that during the meeting the town took ownership of the effort and noted they needed to contribute due to the Lebanon roads significant amount of area that dump into the lake with no sediment control. (see attachments at the end of these minutes)
    - Jeff to set up meeting to discuss the plan going forward and the differences in the information documented at the meeting by the parties.
- **Plunge Pool Design progress**
  - Civil Engineering A2 Survey progress for Lollipop, Frank Hoisl

- **Lebanon land conservation interface**
  - Attempt to get preliminary copy before public comment, and who to coordinate Amston lake comments. Les Parlin
    - Will wait until draft is issued for public comment (August, September), Les will monitor Lebanon website and ask for notification from the town when issued.
- **Barley Straw**
  - Inspections H11, H16
    - H11 – 2 tubes lost most of the straw, 4 tubes still holding together but starting to grow vegetation
    - H16 -, 6 tubes still holding together but starting to grow vegetation
    - Discussion on removal resulted in Al Fichtel moving the tubes to the ROWs so Jeff can load into a truck and remove from the lake area. Al to set a date for the removal. Les and Joyce noted they are willing to assist. (Action 136)
    - Frank noted he was ready to accept the unused barley straw and tube netting. We will combine with the dam efforts following.
- **Dam**
  - Maintenance of emergency gate valve plan
    - Plan to open inspect and grease, Frank to determine date
  - Installation of lake level gage
    - Automatic lake level working but needs to be set to be the same as the fixed lake level indicator gauge once installed. Frank to set date and most likely with the barley straw and emergency valve efforts.

## 2020 Water Test Program

- Algae discussion
  - Minimal algae this year all around the lake, Algae in 2019 was very bad and there was a lot of algae. In 2019 it could have been due to the continuous heavy rains we did not get in 2020. We were unable to see if the new Barley straw installation technique would reduce the algae.
- Cove road area Aquatic plant update, (AER, Al Fichtel)
  - AER could not locate the plant we saw earlier in the year
  - Al inspected the site and also could not find any indication that the plant was still in the lake
  - Will keep a close eye out for this in the future.
- AER Plant Survey 7/18/2020 preliminary discussion, AER Report
  - AER noted the lake was very healthy with no nonnative plants
  - AER noted due to some of the types of plants we had in our lake we could be open to some invasive plants. AER will provide details in their report.
  - AER will be providing their report in the coming weeks, Jeff to get an approximate date of the draft report. (Action 137)
- Deepwater tests performed on 5/7, 5/20, 6/2, 6/17, 7/2, 7/13, 7/29
  - Good results this year to date, secchi on last test was 4 meters, the lowest this year but this is typical for our lake
  - Jeff provided the AER phytoplankton report for 7/29 for review and comment. Jeff had one comment that was implemented by AER and issued as final. This is the 2<sup>nd</sup> of the reports AER has issued, the 1<sup>st</sup> was 6/5. AER will provide one more report covering August and September and described the scope in the July report.
- Stormwater testing performed on 4/9, 5/1, Limited rain fall to collect
  - Still waiting for rain
- North cove *E. Coli* testing completed update on results, Cove health
  - Results from the Phoenix labs was good and no issues found. AER reviewed results and saw no issues. All well within state guidelines.

- Need to get GIS coordinates so they can be added to the AER final report so they are captured for any future efforts if needed. (Action 138)
- North cove versus other lake areas sediment measurement plans,
  - Jeff sent sediment sampling email to ALHC 7/8/2020.
    - Contained AER writeup on Assessment of sediment accumulation 3/8/2020
    - Need plan with trigger point, Reasonable and Acceptable results, other Lake Areas to monitor, how to define causes....
    - Much discussion on this topic resulting in a volunteer team to measure a few spots in the lake to see differences. Jeff noted he did a quick test and determined there was approximately 20 inches of muck in the front of his cottage.
    - Al noted the muck moves around in the lake, Les noted we should prioritize the items we need to do and this is far down the list. Joyce noted if we do any testing in should cover the past dredged areas

#### **Remaining sewer hookup status** (Tracking Spreadsheet updated)

- Lebanon WPCA update, Jeff Arpin
  - Joyce noted the property on the WPCA newly connected property was not on the initial list and will ask LWPCA for an explanation. The town meeting minutes are available on their website and not repeated here.
  - Joyce will attend next LWPCA meeting

#### **Lake Health Historical documentation**

- Update on responses from Web proposal, Jeff Arpin
  - Discussed the comments on the new ALHC web site layout and it was agreed to move forward with implementing the version sent to the committee

#### **Future activities**

- Amston Lake Home Owners Guide update, Kathy G
  - Ordinances review and enforcement, remind us all of our rules

#### **Other Items discussed**

- Lebanon Roads
  - Need more than a one person Lebanon roads committee, Will help with the Erosion control interface with the Health Committee

#### **Action Items, review and new**

**Adjournment:** 9:19 PM

1<sup>st</sup>, Al Fichtel 2<sup>nd</sup> Jeff Arpin

Submitted by Jeff Arpin

Attachments and Action item list follows

Attachments:

- 1 Meeting Summaries from in site Manion catch basin design meeting
- 2 ALH final website layout
- 3 Meeting Action items

Attachment 1 Meeting Summaries from in site Manion catch basin design meeting

ALHC meeting summary with Town of Lebanon by Jeff Arpin

July 21,2020 1:00 PM

**Attendees:**

ALHC – Jeff Arpin

Lebanon -

Phil Chester, Town Planner,

Jay Tuttle, Highway Foreman,

Brandon Handfield, Civil Engineer Yantic River Consultants LLC. Engineer for Town of Lebanon,

Kevin Cwikla, First Selectman

**Prior to meeting Jeff sent Attendees Meeting attachments**

Lollipop Design Drawing snapshot 2020.pdf

Manion Catch Basin Design email discussions 2020.pdf

Stormwater Drainage Improvements Sediment trap at lollipop beach site Plan view and construction details JEP.pdf

20200219\_80 DEEPWOOD Drainage Improvement Review Letter.pdf

**Discussion**

Reviewed location of Catch basins (JEP CT-L-101-2019 August 2019), Town officials did not want any catch basins used for erosion control of Amston properties on Lebanon town properties and requested any such basins be installed on Amston District or private properties.

The town noted that the pipe changing from 15 inches to 12 inches at the discharge of the culvert under consideration was most likely an addition from a property owner. They noted the town would typically install the catch basin discharge onto a property to limit the flow into the lake and then the property owner most likely added to the pipe extending to the lake for land use purposes but failed to use the correct size.

Town noted that they did not see that they need to do anything to the current culvert due to the existing catch basin layout.

Jeff showed the attendees that there was a lot of town drainage that emptied into the culvert we were proposing being modified. After walking up Deepwood drive to Spafford Jeff showed the attendees that there was a lot of road area from Spafford and Deepwood Drive that emptied into the culvert and the catch basin at the road intersection that did not have any sump. Any material from that area would enter the catch basin and exit at the Manion Ln open culvert.

After some discussion Brandon noted that there should be a modification to the open culvert near Manion Ln. He expected that a catch basin be added in the road on the Manion side between the existing open culvert and the catch basin on the Lake side to help catch material from the Lebanon roads.

Also discussed was the addition of a 25-foot apron where Manion Ln meets Deepwood Drive. This is a town requirement and it should be added to all dirt and town road intersections. Jeff noted that we too have limited financial resources but agreed that if we add the catch basin to the Amston property that should be part of the effort.

Jay noted that some of the detention areas on the top of Manion Ln. were filled and could be better maintained. (After the meeting I took a ride around Kellys Corner and Manion Ln and could not see any issues but the Lebanon Roads Committee should investigate.)

Phil noted that Brandon should summarize our discussions and send a letter to the town so it can be shared with Amston Lake District and our engineer.

#### **Possible Next Steps**

- Receive the letter from the Town of Lebanon on their result of the meeting
- Send Lebanon letter to JEP and discuss within ALHC
- Respond to the Towns meeting summary, if needed
- Have an open discussion with the land owner about the addition of a catch basin or a detention basin at the intersection of Deepwood Drive and Manion Ln. Discuss tree removal, and the towns input from letter and JEP.
- Modify Design as appropriate and tie to Towns effort
- Resubmit for town comment review and approval cycle
- Go out for bid



August 3, 2020

Mr. Kevin Cwikla, First Selectman  
Town of Lebanon  
579 Exeter Road  
Lebanon, CT 06249

RE: Amston Lake Association (ALA) Drainage Improvements  
80 Deepwood Drive, Lebanon, CT

Dear Mr. Cwikla,

This letter is a follow-up to our original review letter dated 2/19/20 for the proposed Amston Lake Association Stormwater Drainage Improvements located at #80 Deepwood Drive. On Tuesday, July 21, 2020 I met at the project site with you, Phil Chester, Jay Tuttle and Jeff Arpin of the Amston Lake Health Committee to observe existing conditions and discuss the proposal. Following please find our recommendations and follow-up comments:

#### RECOMMENDATIONS

At the site meeting, Mr. Arpin confirmed that the purpose of the work was to collect stormwater runoff from Manion Drive, which is a private unimproved (gravel) road and provide sediment removal within new catch basin structures prior to discharging into the culvert beneath Deepwood Drive and ultimately, Amston Lake. The original plan proposed to install 2 new catch basins within the Town of Lebanon Right-of-Way.

As discussed in the field, the installation of structures within the Town of Lebanon Right-of-Way for treatment of stormwater runoff from private property and/or development is not recommended due to ongoing maintenance, repair, replacement, and other issues. After observing existing conditions it appears that placement of the new structures within the Town ROW is the best option to collect and treat stormwater runoff from the private road and an exception may be warranted in this situation. I recommend that following be incorporated into the plan.

1. The new catch basin to be installed on the east curbline of Deepwood Drive in front of #83 should be set to align the curb face as close as possible to the edge of pavement for ease of maintenance during the fall and winter seasons. Transition curbing should be incorporated in both directions to eliminate the blunt end of the Type C catch basin top.
2. Instead of one basin on the south edge of Manion Drive, two catch basins appear to be necessary to collect runoff from both sides of the private drive, which is crowned. Each catch basin should be set on the edge of the apron radii and interconnected with HDPE pipe.
3. The Manion Drive apron should be paved from Deepwood Drive up to the edge of the Town ROW.
4. The Amston Lake District or legal owner (ALD) of Manion Drive shall be responsible for all costs associated with the design, permitting, and installation of the proposed drainage improvements.
5. The ALD shall be responsible for all costs associated with the maintenance, repair, and replacement of the two new structures at the intersection of Manion Drive with Deepwood Drive

Mr. Kevin Cwikla  
August 3, 2020

Amston Lake Association Drainage Improvements  
80 Deepwood Drive, Lebanon, CT

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and the drainage connection to the new basin in Deepwood Drive. The Town of Lebanon will take ownership of the new catch basin in Deepwood Drive and assume future maintenance responsibilities after installation by ALD and acceptable by the Town.

#### GENERAL COMMENTS

A revised plan incorporating the above recommendations should be submitted for review and approval. The following comments should also be addressed prior to resubmission.

1. Property or street lines should be shown on the plan to determine the limits of the Town ROW, Manion Drive limits and abutting private properties.
2. Existing utilities should be located and shown on the survey to coordinate new crossings without conflict.
3. Existing and proposed easements should be noted on the plans.
4. A draft maintenance agreement between ALD and the Town should be submitted for legal review.
5. A detailed construction estimate should be submitted for review for obtaining a performance bond in an amount equal to the construction estimate.

Should you have any questions, please don't hesitate to contact me at (860) 367-7264.

Sincerely,



Brandon Handfield, PE  
Civil Engineer



Attachment 2

Final Amston Lake Health Website update (Changes in red font)

Proposed Level 1	Level 1 Details	level 2
What You can Do to protect our Lake	ALH Mission Long Term health Plan (TBD) Items from the Candlewood lake Items from the Amston Laker Any similar items, Links to Amston laker Be a volunteer	
Analysis and reports	Yearly lake reports, by year Bathymetry Reports, by year Fish Reports, Summary and each report Plant Surveys, By year Aquatic Nuisances, Links to DEEP, Possible level 2 Current Year Testing activities and results, Updated monthly, level 2 Limnologist Communications Lake data spreadsheet, Updated quarterly (July, November)	Phoenix, ALHC, AER formal monthly results lakes in CT with water quality Issues
Committee Activities	Agendas, minutes ALHC testing Efforts (will need breakout detail) Lake management Guidelines (when published) Barley Straw History and Effectiveness Historical Document Management Spreadsheet Lake Management History Spreadsheet This Year in summary Level 2	Lake level Algae Plants ??????
Erosion Control	Stormwater control - 2 major documents (Stormwater Conveyance, Les) ROW and Detention Basin efforts Manion Catch basin Design Lollipop Detention Basin design Catch basin measurements Lebanon Roads Interface Major erosion control projects	

Attachment 3

Action Item List (Updates in red font)

Action Item No	Action Owner	Action Description	Date Assigned	Action Closure	date completed	reviewed with Committee	Print for minutes
31	Jeff Arpin	Implement Action item 22 comments to Amston Lake Guide for lake management procedures and planning	5/12/2018	5/29/2020 - Changed Action owner from ALHC to Jeff 5/7/2020 - Agree to meet after Lake history efforts are completed 12/31/19 AI responded to resolutions, Jeff sent info and resolutions to ALHC	Hold until COVID 19 Passes	Yes	Yes
45	AI Fichtel	Work with DEEP to get fish tagged during fish count	10/11/2018	7/28/20 Jeff Arpin updated the fish spreadsheet which now contains all the data from 1994 to present. 7/28/20 DEEP provided table documenting fish surveys from 1994 to present	7/28/2020	Yes	Yes
67	Jeff Arpin, Joyce Clark	Continue to meet with Lebanon WPCA to get homes connected	6/5/2019	7/23/20 - LWPCA motion was made and passed unanimously Due to hardships being faced by the Covid-19 Pandemic the deadline to obtain a permit will be extended to December 31, 2020 with the connection to be completed by April 2, 2021. 6/1/20 - Confirmed #326 Deepwood Dr. Lebanon connected		Yes	Yes
74	Geoffrey Bright	Compare Fish counts for each period to see what can be learned	7/3/2019	7/28/20 Jeff Updated the fish spreadsheet to include all DEEP data and updated graphs	7/28/2020	Yes	Yes
78	Kathy Garvie	Review Candlewood lake home owners guide to see if we want to issue similar information about Amston Lake	8/30/2019	7/7/2020 - Kathy Garvie noted she would draft an Amston Lake Home Owners Guide based on the applicable items in the Candlewood version and send to the committee for comment		Yes	Yes
93	Frank Hoisl	set up a meeting with the town of Lebanon to discuss the phased approach of the Manion Catch basin	12/11/2019	8/18/20 – Jeff to set up meeting to discuss differences in meeting notes and future efforts 7/21/20 - Jeff Arpin met with Lebanon town officials and sent summary on 7/21 to ALHC, waiting report from Lebanon on meeting		Yes	Yes

Action Item No	Action Owner	Action Description	Date Assigned	Action Closure	date completed	reviewed with Committee	Print for minutes
101	Robert Bielert	As a licensed Surveyor, Robert could survey the areas identified by AI that needed attention Action item 98. Robert would start with the highest priority item and work through them.	1/7/2020	8/18/20 – Surveyors did survey lollipop in the past days, frank to see when they will complete the effort. 7/7/20 - Frank noted Pins located, Needs to continue with the town of Lebanon land document review, will check on surveyor progress.		Yes	Yes
106	Jeff Arpin	How to monitor lake boating for Amston Lake stickers, state registrations and boating certificates (all motored boats)	1/25/2020	July - ALD email blast on boat rules issues and sticker for violators defined. 6/2/2020 - Frank sent a note to web master to send a boating safety message out to the district.	8/18/2020	Yes	Yes
113	Joyce Clark	prepare future steps for Lollipop and Elsmere ROW designs and send to JEP engineering	3/3/2020	7/21/20 - Lebanon had no input to the designs because not on town property, Amston to provide via normal permitting process.	On Hold	Yes	Yes
114	Les Parlin	5/7/20 - Added Les to get an update of Lebanon's progress Initial - Add Watershed to the Lebanon Conservation Plan and send email describing the information he has captured through AER, Hebron and Lebanon	3/3/2020	7/7/2020 - town expected to issue in August / September for public comment	Initial closed 5/7/2020	Yes	Yes
116	Frank Hoisl	During the AER visit concern was raised over brush removal at Cove ROW near the area where water flows to the lake. The brush stabilizes the land so it does not wash into the lake. Frank will send the beaches and ROWs committee the lake	3/3/2020	8/18/2020 – Jeff noted he met with Teri (Beaches and ROWs by their request so this communication is working 7/7/2020 - Frank will discuss with new beaches and ROWs chair Teri Nixon 6/2/2020 - Noted at May BOD meeting. Frank to discuss with Brandon (Beaches and ROW lead) about erosion control with the contractors so they are aware of our concerns	8/18/2020	Yes	Yes

Action Item No	Action Owner	Action Description	Date Assigned	Action Closure	date completed	reviewed with Committee	Print for minutes
		health items we need to be contacted for					
120	Frank Hoisl	get other committees to post agendas and minutes on the website	5/7/2020	8/18/2020 – Frank noted Beaches and ROWs posting minutes 6/2/2020 - Currently Finance, Beaches and ROWS produce meeting minutes	8/18/2020	Yes	Yes
121	Kathy Feldman	Kathy Feldman previously shared information about pet waste with the committee and will ask the author if we can share with the community	5/7/2020	7/7/2020 - Information will be sent to Frank to post on the lake health website 6/29/20 - Received permission from the CT River Costal Conservation District to distribute the Brochure. We should discuss how this should happen. I got a quote from Staples to copy the 2-sided color brochure for \$0.57/copy. Possible distribution options: give out copies next year with boat tags; hand deliver to houses; email blast	6/29/2020	Yes	Yes
122	Frank Hoisl	Maintenance of emergency gate valve, contact Carl Wool to assist in the maintenance because they have performed this function before	5/7/2020	8/18/2020 – Frank to determine date to inspect and grease 7/7/2020 - Plan to perform in July		Yes	Yes
124	Frank Hoisl	Action to coordinate between Jeff and Web master on how to get historical documentation available to ALHC, BOD, General public as applicable (Old action 6)	5/7/2020	8/18/2020 – ALHC agreed to final layout, Jeff Arpin to meet with Web lead to get implemented (Liz Bowen) 7/7/2020 - Committee reviewing Proposed Lake health Web format 6/25/2020 - Jeff sent Historical records update to ALHC that provides an example of a categorization		Yes	Yes

Action Item No	Action Owner	Action Description	Date Assigned	Action Closure	date completed	reviewed with Committee	Print for minutes
				scheme for review prior to next meeting for discussion.			
125	Frank Hoisl	Remove the Ryan Terrace grass matting that is causing a tripping hazard	6/2/2020	7/7/2020 - Frank Removed tripping hazard and confirmed with the contractor that the netting will dissolve over the year. Frank has the specification for the netting	7/7/2020	Yes	Yes
126	Jeff Arpin	Bring Lollipop design to the Lebanon Manion design review meeting	6/2/2020	7/21/2020 – Jeff noted the Lollipop design efforts and seeing not on Lebanon property the noted to submit the design for formal review.	7/21/2020	Yes	Yes
130	Frank Hoisl	Contact Brandon about discussing Erosion control with the contractors doing work so they meet the intent of AER recommendation of not removing plants around water courses.	6/2/2020	8/18/2020 – See action 116 7/7/2020 - Frank will discuss with new beaches and ROWs chair Teri Nixon	8/18/2020	Yes	Yes
132	Frank Hoisl	Provide Jeff the AER approved offer to be scanned into the historical records	7/7/2020			Yes	Yes
133	Kathy Feldman	Investigate other labs that can perform Chlorophyll testing	7/7/2020			Yes	Yes
134	Frank Hoisl	Assign a BOD member to review Ordinances and provide Input send by Jeff Arpin	7/7/2020			Yes	Yes
135	Frank Hoisl	30 Deepwood Drive Lebanon is using a weed killer as they did last year, need to see toxicity and if they in Ordinance compliance	7/7/2020	8/18/202 – Frank confirmed owner using vinegar and water to kill weeds. The committee noted the complete shoreline was killed and property owners are not to do this on the lake shore line. Frank will see the owner who is now on the BOD.		Yes	Yes

Action Item No	Action Owner	Action Description	Date Assigned	Action Closure	date completed	reviewed with Committee	Print for minutes
136	Al Fichtel, Jeff Arpin	Removal of Barley tubes, in Al Fichtel moving the tubes to the ROWs so Jeff can load into a truck and remove from the lake area. Al to set a date for the removal. Les and Joyce noted they are willing to assist.	8/18/2020				
137	Jeff Arpin	Find out when AER will issue Vegetation survey report	8/18/2020				
138	Kathy Feldman, Jeff Arpin	Need to get GIS coordinates of the E. Coli locations so they can be added to the AER final report so they are captured for any future efforts if needed	8/18/2020				
139	Al Fichtel	Lollipop detention basin is an issue with a lot of sand that keeps filling the detention basins. We need figure where the sand is coming from and resolve.	8/18/2020				