

Bare Hill Pond Watershed Management Committee
Town of Harvard
Harvard, MA 01451

August 13, 2007

Conservation Commission
Town of Harvard
Town Hall
Harvard, MA 01451

Re: Proposed Fall 2007 Drawdown and 2007 Report

Dear Commissioners:

On behalf of the Bare Hill Pond Watershed Management Committee, we are submitting our annual data collected since August 2006 and requesting authorization to proceed with the Fall 2007 drawdown. Last year we conducted what we believe was a very successful pump assisted drawdown and our goal is proceed incrementally and prudently to assure the protection of the watershed. Last year we drew 5 feet from the Pond. As discussed below, our proposed plan is to increase the drawdown depth by up to 1 foot to 6 feet after examining the shoreline conditions when the five foot level is reached. We believe it would be prudent to ensure that before proceeding past 5 feet, that we confirm the health of the mussel population we observed last fall and that the population is adapting to the drawdowns. It is not feasible to get a good look at the mussel population until the water level is lowered, and we can do this in early November. As in prior years, attached as Exhibit A, is a record of the drawdown and refill data.

The results of the drawdown this summer have exceeded our expectations. Monthly observations show a significant decline in the fanwort and milfoil prevalence in areas that were very heavily infested in prior years. Attached as Exhibit B are emails we received from Pond users on their observations. In our monthly observations we found the following. The area between the beach and the dam as late as early August has growth but far less density than in prior years. The swimmers at the beach report a significant reduction in the swim area as compared to the last few years. The area between Ministers Island and Clapps Brook (which was the location of the milfoil photo on the Committee webpage) that was had to transit by boat in prior years at this time is now relatively clear of milfoil and fanwort. Our goal is not to remove plants entirely but to control the invasion. In addition to a reduction in plants, it also appears that the growth started later this year than in the past, and resulting in less plants reaching the surface zone. ENSR will be conducting the 3 year transect measurements in early September and we will have actual point to point comparisons to compare to 3 and 6 years ago.

In late January we had a hard freeze that lasted until the end of February. This worked in our favor. In addition, when the refill occurred, the exposed bottom was still

frozen in many places and floated to the surface causing further disruption to the invasive species.

This year's monitoring results are consistent with our observations over the past 6 years. We have not observed any significant impacts and continue to support the efficacy of utilizing drawdowns. We are pleased to report that we have also enhanced our amphibian monitoring capability this year as well as performed the downstream wetland monitoring contemplated by our order of conditions. Jeff Ritter organized a team of six volunteers who were trained by Jack Whalen. We had a number of frog counts and were pleased with the efforts. Michele Girard continued to lead our efforts on the down stream wetlands.

The ability to control the drawdown and the refill has been assisted by the pump which makes it easier to regulate the downstream flow. Our observations of the downstream wetlands indicate that the plant diversity is consistent with prior years and quite healthy. The photos attached in Exhibit C show two of the monitored areas below the dam, and the growth of grasses just below the outflow indicates that the area with highest flow has become a seedbed for the wetlands. The areas not directly impacted by the flow have grown substantially and the species diversity is comparable to that in prior years. Michele is compiling the data and we will submit her report once it is completed.

We also continued to take secci disk readings to evaluate turbidity. The results were consistent with last year ranging from 5.5 feet on windy days or days with high boating activity to 6.0 feet early in the morning when there is light wind and traffic on the pond. On April 22, we counted reptiles. Fifty-five (55) turtles (as compared to thirty (30) turtles in 2006) were counted during the survey over 45 minutes. The turtle count was in the Clapps Brook area, like prior years. This area was fully drained by the drawdown and it appears the turtle population was not significantly impacted.

Frog counts were conducted in April and May during breeding season. Counting sites were near the Town Well on Pond Road, Barba's point, at the Dam, on the Scorgie Land, and Bowers Road. These areas were used in prior years and were also identified as good sites because they were locations that were drained during the drawdown. If the drawdown had a significant adverse impact on amphibians, then we would expect to notice a population change. Frogs breed in sequence. First peepers, then pickerel frogs and then green frogs and bull frogs. During the scheduled counts, the species present were in large numbers and the sounds were frequently at the chorus level and could not even be counted. Attached as Exhibit D are the data sheets from the counts. We are pleased to have re-invigorated these efforts and expect to improve our knowledge each year.

Beaver activity was high this winter during the drawdown frequently blocking the flow in the RT110 culvert and the stream in the downstream wetlands. I have observed mink during November and early March on Sheep Island as well on the shore near Sheep Island this summer. Once again, we observed a fox family (on our shoreline property)

during June that reared 7 kits. They all appeared very healthy and fish, wild turkeys, geese, ground hogs and other small mammals were a regular part of their diet.

Attached as Exhibit E are summaries of fish counts from fishing derbies that were held this year. As noted on some of the reports, fishermen continue to find Bare Hill Pond to have a thriving fish population Susan Hardy continues to conduct and lead bird counts and reports that she is finding similar species and diversity from year to year.

Copies of the 100' segments of shoreline (Exhibit F) are also submitted for your review at the sites established in 2003. The photos were taken the week the drawdown was achieved. When one compares the photos to last year, one does not see much change. As in prior years, we continued to observe a greater exposure of glacial till which would result from the washing of the silt into deeper areas during the drawdown. Significant restoration of rocky shoreline and glacial till habitat appears to be a result of the drawdown; restoring habitat for crayfish that can now be found under rocks along the shore.

We have continued to comment on ZBA permit approvals in the watershed and the ZBA has been very responsive in prohibiting the use of phosphorous fertilizers and requiring shoreline restoration.

We received no reports of impacts on wells. We were requested by the crew team to limit the drawdown to 4 feet until after the Head of the Charles Regatta to allow for crew practice to continue until the end of crew season. We believe this should not be an issue based on the pumping capability observed last year.

Taking this into account, we propose the following plan for the Fall 2007 pump assisted drawdown:

1. Initiate the gravity drawdown September 20 and limit the drawdown to 2" per day per the Order of Conditions. Initiate pump assistance when the rate of drawdown drops below 2" per day to maintain the 2" per day rate. This would be expected to begin about October 1 like last year. The gravity driven flow rate through the dam is high for about 10 days based on historic data and once the "head" at the dam is reduced the rate drops off to about 1" per day or less.
2. Allow for the drawdown to increase by an increment of up to 12 " from the 60" gravity drawdown to up to 72". We have chosen this increment for several reasons. First, it offers us the opportunity to extend the drawdown to a critical area of invasive species growth without assuming inappropriate risk. There are critical areas of the Pond that are still being adversely impacted by invasive species and this increment could help make another step in achieving this goal. We recognize the importance of incremental progress, and believe this increment affords important protection against proceeding too aggressively.

In the event that the drawdown reaches 4 feet prior to October 21, we will hold at 4 feet until after October 21. We would then continue until we reached the same level as last year of 5 feet. At that point we would survey the mussel population to confirm that it was migrating beyond the drawdown zone, and proceed only to the extent that it was consistent with protecting the mussel population up to 6 feet.

As in prior years, we would halt pumping in the event of a freeze to ensure that the winter habitat for amphibians and other animals is preserved.

3. Initiate the Refill on February 1, 2008. Our objective is to bring the Pond to the level of the gravity drawdown on or before the date we have historically initiated the gravity drawdown refill. This was the course of action last year. The refill started slowly but we were able to capture the snowmelt during that time and fill the Pond as planned. In 2006, the prior year, the refill missed the snowmelt contribution to the refill, which occurred in early February, and then was delayed by the delay in spring rains. By starting the refill by February 1, we would have met this goal and perhaps exceeded it. The ENSR 2002 Report that was submitted in connection with our 2002 NOI submission provided data supporting this approach. As noted in the report, historic climatological data shows that a 4 foot drawdown should refill on average within 27 days and could be as long as 54 days in low flow years and with extreme drought 81 days. Our monitoring data shows just that. In our normal years we refilled in about 27 days. This year with no snowmelt during the refill and no rain we filled about halfway without rain and completed the refill in about 80 days. In prior years it generally refilled in the 27 day timeframe. The report estimates that a six foot draw down the average refill would take 40 days (another 2 weeks), and in low flow years would take 81 days and extreme drought 121 days. Our proposal is to continue to start on February 1 to catch the snowmelt and to limit the increase to 5 feet. This means the average time to refill should be about 35 days.

The other benefit is that we want to fill the Pond before amphibian breeding begins, and our frog counts suggest we were successful this year in doing so.

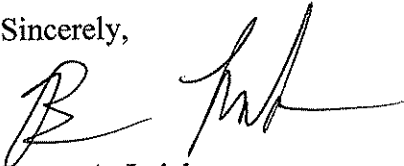
On balance, we believe it is important to move incrementally and based on the mussel survey, increase the depth up to 1 foot to 6 feet.

The efforts we have undertaken on this project offer the opportunity to protect and maintain Bare Hill Pond and its watershed. We are very pleased with the level of improvement and stabilization of the invasive species we have observed this year. Still, much more needs to be accomplished in future years in the watershed, and this project is key to future funding of the watershed protection follow on activities.

Conservation Commission
August 13, 2007
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We appreciate the time the Commission has take, and the effort made to understand, and help manage the project. We look forward to the meeting on September 6 and will do our best to answer and address your questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bruce A. Leicher', written over a horizontal line.

Bruce A. Leicher
Chair, Bare Hill Pond Watershed Management Committee

Cc: Conservation Commission Members
Pond Committee Members
Selectmen

Exhibits (1 filed paper copy) plus CD ROM –to be posted on Pond Committee page of
Town of Harvard Website

Exhibit A – Drawdown and Refill Data
Exhibit B- Email observations of Invasive Species
Exhibit C – Photos of Downstream Wetlands
Exhibit D- Frog Count Data Sheets
Exhibit E – Fish Count Data Sheets
Exhibit F - 100 Foot Segment Photos

2006-07
Drawdown and Refill Data

Pond Normal Height = 18"-20" below top surface of Dam.

Date	Inches From Top of Dam	Comments
9/16	18"	High for September -
9/20	21"	Remove Boards
9/22	28"	High Flow
9/24	32"	High Flow
9/28	39"	High Flow
9/30	42"	Fast Flow - Start Pump
10/2	47.5	Slower flow
10/4	50"	Slow flow at dam
10/8	58"	50" on wetlands side
10/12	62"	50" on wetlands side - prior gravity DD level
10/16	70"	54" on wetlands side of dam
10/18	73"	56" on wetlands side
10/21	78"	65" on wetlands side
10/24	79"	
10/25	80"	5' level reached
Jan		Warmer than normal
1/28-2/25		Heavy Freeze
2/1	80"	Refill started - pump slowed to 3 hrs per night (12% of capacity)
2/3	80"	Very cold limited precipitation
2/10	80"	8-28 degrees limited melting
2/19	79.5"	"
2/25	79"	28 degrees
2/28	79"	40 degrees
3/3	73"	40 degrees 1-2" rain
3/10	69"	
3/16	61"	
3/18	59"	1 foot snow
3/24	53"	Light snow and rain
3/29	46"	Clear
4/1	43"	
4/7	36"	Snow on 4/5
4/13	29"	
4/16	12"	2" rain and overflow
4/20	12"	full
5/1	16"	Approaching normal

2003-2006
Bare Hill Pond
Drawdown Refill Data

Pond Normal Height: 18-20" below the top of dam

Date	2003	2003 Notes	2004	2004 Notes	2005	2005 Notes	2006	2006 Notes
2/4	48.5	1.5 foot drawdown						
2/6	47.75							
2/8	47							
2/10	47.25							
2/12	45.75							
2/14	45.25		62"	3.5 foot drawdown				3.5 foot drawdown
2/16	45		-					
2/18	-		-				60"	Started refill
2/20	44.25		-				59"	Solid ice
2/22	-		-				-	No precip
2/24	40		-				-	Very cold week
2/26	39		-				58"	20's or less
2/28	37.5		62"	Refill started 3/1	58"	Refill started 2/27	-	Continues cold
3/2	36.5		-		-	Solid Ice	-	
3/4	-		-	Solid Ice	-	Solid Ice	56.5	
3/6	33		57"	Solid Ice	55"	Solid Ice	-	
3/8	32		-	Solid Ice	-	Solid Ice	-	
3/10	30		-	Solid Ice	-	Solid Ice	-	
3/12	29		-	Solid Ice	49"	Solid Ice	54"	First days above freezing
3/14	-		54"	Solid Ice	-	Solid Ice	-	
3/16	27		-	Solid Ice	-	Solid Ice	-	28-36 deg
3/18	26		-	Solid Ice	-	Solid Ice	-	No precip
3/20	22.5	Spacers removed from boards	50"	Solid Ice	44		50.5"	
3/22	19		-	Solid Ice	-		-	No precip
3/24	17		-	Solid Ice	-		-	40-50's
3/26	-		47"	Solid Ice	40		48"	
3/28	18	Pond Full	-	Very	-	4" + rain during week	-	
3/30			-	Heavy rains	-		-	
4/2			30"		20	Pond Full	46"	40-60's no precip
4/4			-		13.5		-	
4/6			23.5		-		-	
4/9			23		-		43"	0.5-1.0" rain
4/14			16	Pond Full	16"	Normal height	-	
4/16							41"	No rain
4/23							41"	No rain
4/30							38"	No rain
5/7							36"	No rain
5/12							33"	Lite rain
5/14							23"	4-5" rain
5/21							14"	Pond overfull 4-5" rain
6/17							16"	Pond above normal

1

Molecular Biology Core Facilities..
Dana-Farber Cancer Institute.....
<http://mbcf.dfci.harvard.edu>
21 Burlington Ave..... 617-632-3082
Boston, MA 02215..... fax 632-4814

Bruce Leicher

From: Mark Hastings [mdhastings@yahoo.com]
Sent: Friday, July 20, 2007 8:03 PM
To: Bruce Leicher
Subject: RE: FYI a few observations

Bruce,
I am fairly sure that they are native. At the very least they are not nearly so aggressively invasive. They are also easy to control with drawdowns and harvesting.

My comments on these plants was motivated by the almost non-existent presence a few weeks ago, and the sudden appearance in the last couple of weeks. In any event, these plants are still very limited. They are only evident in the extreme southern end of the pond.

BTW what is happening with the harvester this year?

Regards,
Mark

--- Bruce Leicher <BLEicher@altus.com> wrote:

> Mark,
>
> Do you consider Water Lilly, Curly Leaf Pond Weed
> and Water Sheild
> invasive or native?
>
> -----Original Message-----
> From: Mark Hastings [mailto:mdhastings@yahoo.com]
> Sent: Friday, July 20, 2007 2:06 PM
> To: Bruce Leicher
> Subject: FYI a few observations
>
> Bruce,
>
>
> I took a brief tour of the Great South bay today. I
> noticed that the typical pond weeds were much more
> evident that even a few weeks ago. Water Lilly,
> Curly
> Leaf Pond Weed and Water Shield were the most
> prevalent.
>
> Interesting phenomenon - Off the southern shore of
> Clinton Shore the water is bubbling like a glass of
> soda pop. I figure it is the usual decomposition of
> plant matter on the bottom, I would expect the
> emergence of a mat in the next few days.
>
> Using my power boat as a high vantage point, I was
> able to scan a fairly wide area. I found about 6
> Water
> Chestnut plants about 50 yards from Bowers Brook.
> (BTW
> the power boat, used in this manner, has potential
> in
> weed control. With one or two spotters on the bow,
> each pass can scan a swath about 60 feet wide. This
> technique has limitations though, it cannot be used

> too close to shore due to shallow water, and it is
> sub
> optimal as a pulling platform. Still it does have
> advantages for covering a large area quickly. This
> might be very useful in keeping watch on large areas
> that are mostly under control.)

>
> Regards,
> Mark
>
>
>
>

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<http://tv.yahoo.com/collections/222>

Bruce Leicher

From: Dan Justicz [djusticz@bostonpostpartners.com]
Sent: Thursday, August 02, 2007 4:21 PM
To: Bruce Leicher
Subject: Successful Pond Draw-down

Bruce,

Just a note from a family of pond-goers that last winter's draw-down seems to have tangibly reduced / stunted the growth of the weeds in the pond.

I remember noting very early in the season last year just how thick and close to the surface the weed was in the swimming area and in the south end of the pond. This year I have only very recently noticed the weeds, and not even close to the surface yet. What a difference!

Clearly this is a multi-year task, but very well done so far. Our young kids are enjoying the pond like never before.

Best Regards,

Dan

Dan Justicz
20 Woodside Road
Harvard, MA 01451
Tel: (978) 456-9150
Cell: (978) 807-8991
Email: dan@justicz.com

Bruce Leicher

From: Mark Hastings [mdhastings@yahoo.com]
Sent: Friday, August 03, 2007 9:39 AM
To: Rick Dickson
Cc: Bruce Leicher
Subject: Re: Last Water Chestnut Weed Pull this Saturday 1-5pm

Rick,

It is great to see the effort you are putting in to keep the weed pulls going. Thank you!

FYI I have been trying a new technique for finding weeds. Using my power boat I have moved at headway speed, back and forth across the pond. Because I can stand up in the boat, I can see much farther and can cover a 60 foot swath with each pass.

I did this in the Great South bay this past week and found about 1/2 of a 5 gallon bucket full of weeds. The area i covered ran from the southern tip of Clinton shore across the pond due east. I made multiple passes moving south until the water level was too shallow for my boat.

Assuming you will be doing some pulling in Great South bay, please let me know how many weeds you find, and where you find them. If i did a good job, you should only find them in the mouth of Bowers brook and along the shore boundaries where the water is shallow.

This technique has pros and cons:

Pros: can cover large areas, and scour the pond of outlying individual weeds.

Cons: not effective on weeds in shallow, or rocky areas. Not efficient at pulling large amounts of weeds due to difficulties in maneuvering. (This might be countered by combining power boat with canoes.)

Regards,
Mark

--- Rick Dickson <rick@PowderHouseRealtyGroup.com>
wrote:

> Good day,
>
> This is a reminder that the last water chestnut weed
> pull will occur this
> Saturday Aug 4th from 1-5 pm.
>
> There is a sign-in table at the town beach.
>
> We will be working in Clapps Brook area of the pond,
> behind Minister's



E-1





Amphibian Monitoring In and Around Bare Hill Pond

Observer: Bruce, Rudy, Don, Ted, Jack Route: Town Dam

Survey Date: 4/20/07 Run Number: 1 Point Number: 2

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
8:40	50	1/NE	0	Y/1	8:45

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing *Below freezing*

Has there been precipitation in the past 48 hours? (circle one)

No precipitation Some precipitation Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

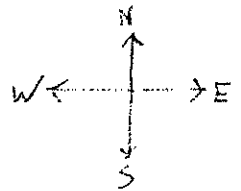
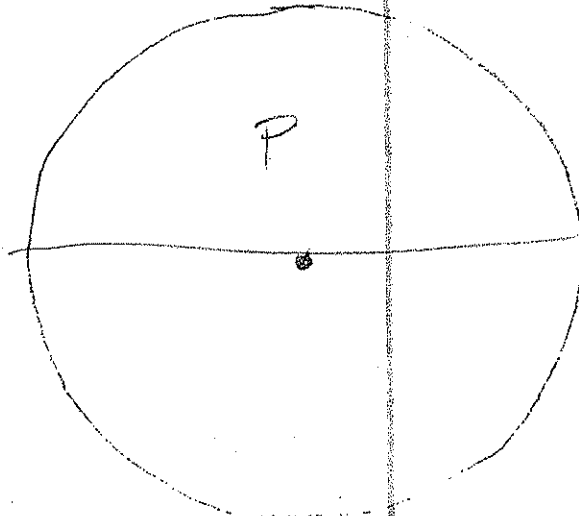
Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

[illegible]

M=Mink frog



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper.

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Bruce, Judy, Dan, Ted, Jack Route: Bruce Leicher's House

Survey Date: 4/20/07 Run Number: 1 Point Number: _____

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:15	56	1/NE	0	Dogs	9:20

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

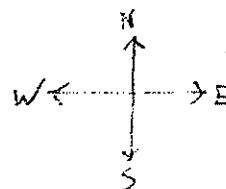
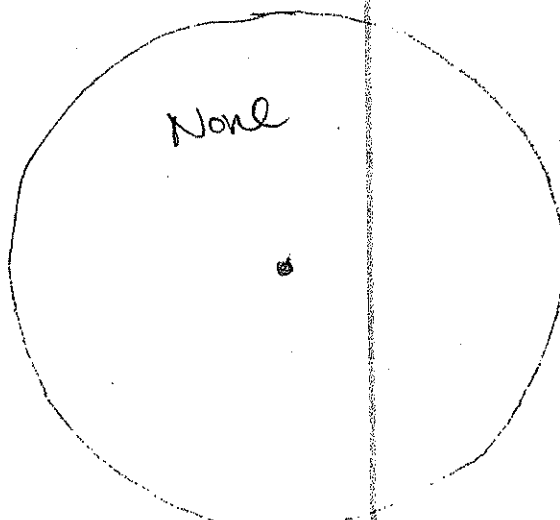
Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

[illegible]

M=Mink frog



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

[The page contains faint horizontal lines, suggesting it was part of a lined notebook or document.]

4

Survey Date: 4/20/07 Run Number: 1 Point Number: 5

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
8:20	57	1/NE	0	N/D	8:25

Above freezing

Below freezing

No precipitation

Some precipitation *Much precipitation*

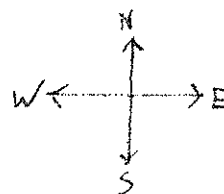
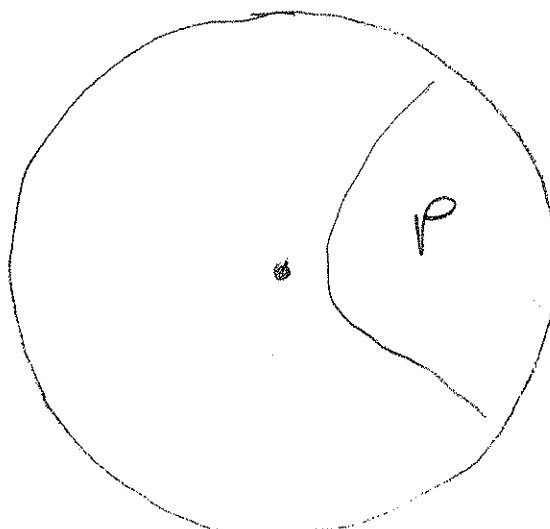
None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Call Index:

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

[illegible]

M=Mink frog



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

1

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Judy, Phyllis, Jack Route: Scorgie

Survey Date: 4/24/07 Run Number: 1 Point Number: 1

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
8:30	62°	1 / N	0	N / 0	8:45

The temperature in the past 48 hours has primarily been: (circle one)
Above freezing Below freezing

Has there been precipitation in the past 48 hours? (circle one)
No precipitation Some precipitation Much precipitation

Precipitation during visit: (circle one)
None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping
 C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Don't guess at the time. Make sure it is exactly 3 minutes. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
Pickeral	A	13
Peapets	C	Chorus

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

T=Gray tree frog

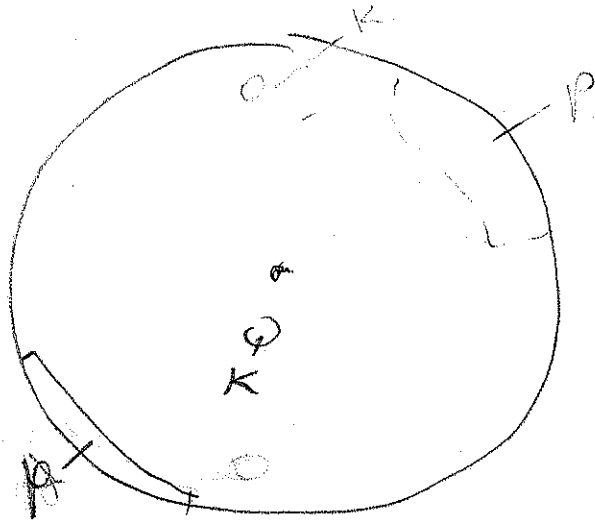
A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog

K= Pickerel



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

Heard Pack of Coyotes Howling

Heard Banded Owl

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Judy, Phyllis, Jack Route: Town Idwell
 Survey Date: 4/24/07 Run Number: 1 Point Number: 4

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:28	59.0	1/SW	0	N	9:31

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation Some precipitation Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

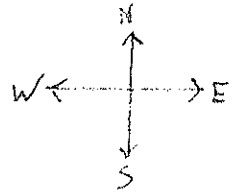
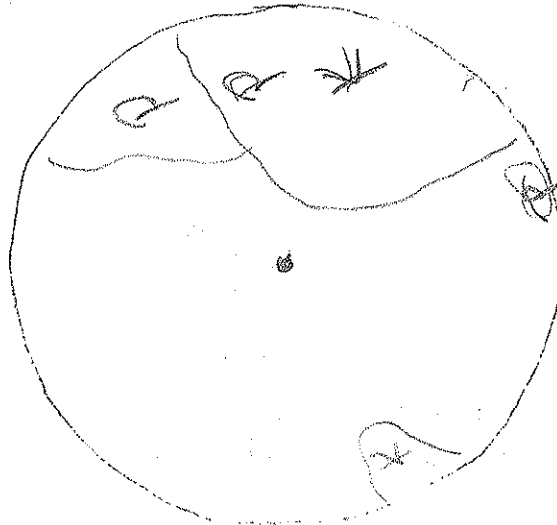
A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
Pinkered	Balmst C	86
Peeper	C	Full Chorus

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog
G=Green frog
W=Wood frog
P=Spring Peeper
T=Gray tree frog
A=American toad
F=Fowler's toad
E=Eastern spadefoot toad
M=Mink frog



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

Beaver Splashing in distress
Car leaving parking lot quieted the Pickeral Frog chorus
Largest chorus of Pickeral frogs I've heard.

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Angels, Judy, Jack Route: Bowers Rd
 Survey Date: 4/24/07 Run Number: 1 Point Number: 7

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
10:163	59	0	0	2/N	10:06

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation Some precipitation Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
Pickered	C	178 ?
Peep or	C	

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

T=Gray tree frog

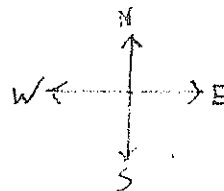
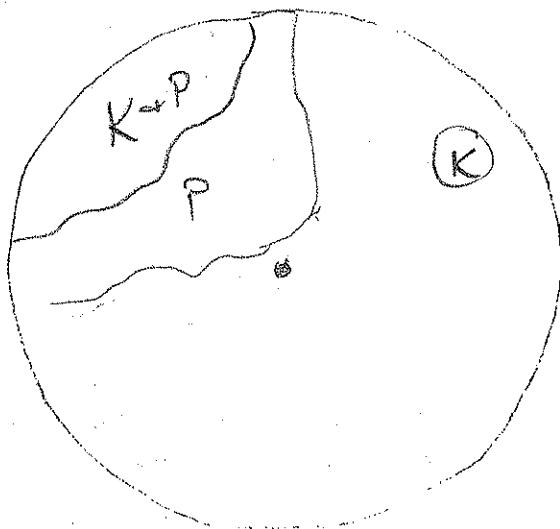
A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog

K= Pickerel frog



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

Ambient Noise = train, truck, dog barking

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis Clawson

Route: Bowers Rd

Survey Date: 4-24-07 Run Number: 1 Point Number: 7

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
10:03	59	0	0	N - 22	10:02

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None

Fog/Mist

Light rain/drizzle

Medium rain

Hard rain

Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>peepers</u>	<u>C</u>	
<u>pickers</u>	<u>C</u>	

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

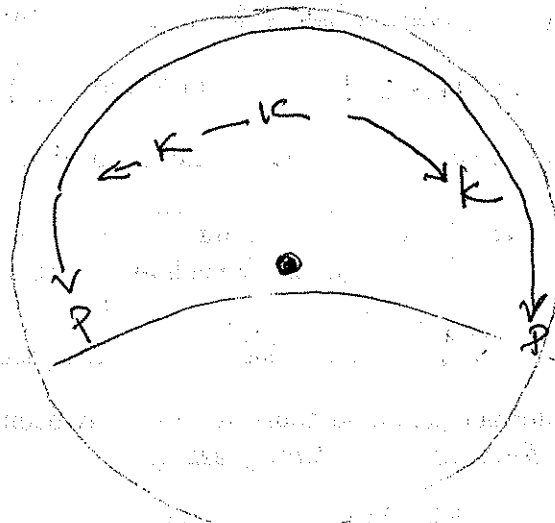
T=Gray tree frog

A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

train whistles

dog barking

truck traffic noise

pickered calls seem to come in waves

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis Clawson Route: town well

Survey Date: 4-24-07 Run Number: 1 Point Number: 4

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N& Index)	End Time
9:28	59	1 SW	0	N-0	9:31

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None

Fog/Mist

Light rain/drizzle

Medium rain

Hard rain

Hail

Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>pickrel</u>	<u>B almost C</u>	<u>86</u>
<u>Peepers</u>	<u>C</u>	

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

T=Gray tree frog

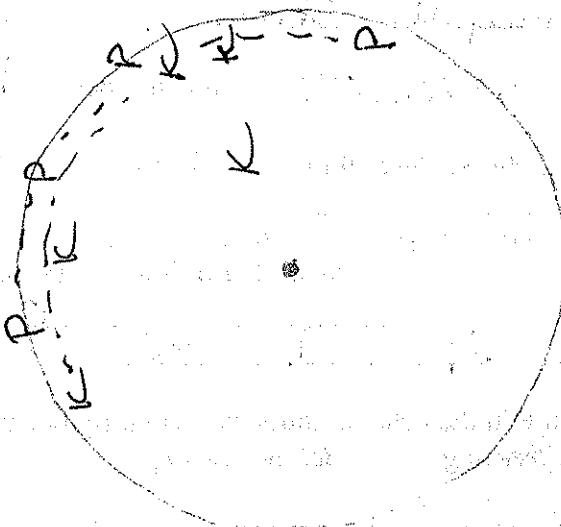
A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog

K= pickerel



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

some headlights across cove from soccer field area library!

some distress calls

1/2 moon

2 beaver splashed after count

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis Clawson Route: 1 *Scorgie*

Survey Date: 4-24-07 Run Number: 1 Point Number: 1

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)°	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
8:30	62°	1 N	0	0	8:45

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None

Fog/Mist

Light rain/drizzle

Medium rain

Hard rain

Hail

Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>Pickering</u>	<u>A</u>	<u>13</u>
<u>Spring Peepers</u>	<u>C</u>	<u>full chorus</u>

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

T=Gray tree frog

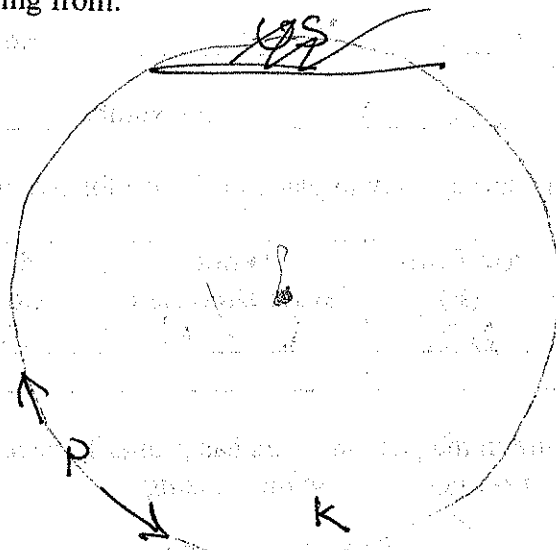
A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog

K=pickrel



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

1. train in distance
walking down heard coyotes to north
occasional goose call in cove to west

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis Clanton Route: _____

Survey Date: 5-1-07 Run Number: 2 Point Number: 1

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
8:29	66°	#1 N	1	1	8:32

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
leopard pickerel peepers	B not countable	31 (16 close)

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

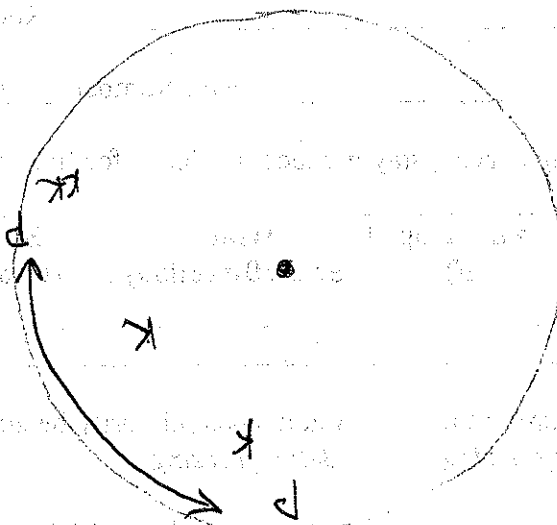
T=Gray tree frog

A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

geese noisy prior to count

dog barking softly across cove

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Bruce, Ted, Phyllis, Jack Route: _____

Survey Date: May 1 Run Number: 2 Point Number: 7

Before starting survey, stay in place in silence for five minutes.

Bowers Rd.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:04	64	1 N	2	N	9:07

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>Peeper</u>	<u>C</u>	<u>Not countable</u>
<u>Pickereel</u>	<u>C</u>	<u>Not countable</u>

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

T=Gray tree frog

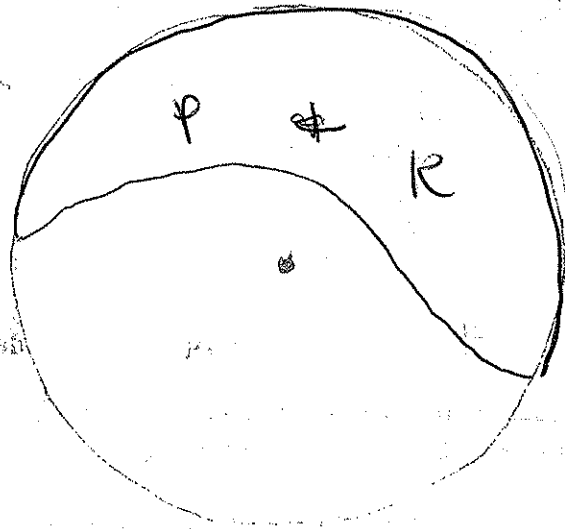
A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog

K= Pickerels



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

Distant Coyotes

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Jack, Phyllis, Ted, Bruce Route: _____

Survey Date: May 1 Run Number: 2 Point Number: 1

Before starting survey, stay in place in silence for five minutes.

Sprague

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
8:29	66°	1 N E	2	Y / 1	8:32

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None

Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>Peepers</u>	<u>B</u>	<u>Not Countable</u>
<u>Pickered</u>	<u>A</u>	<u>3/</u>

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

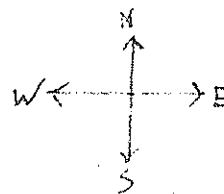
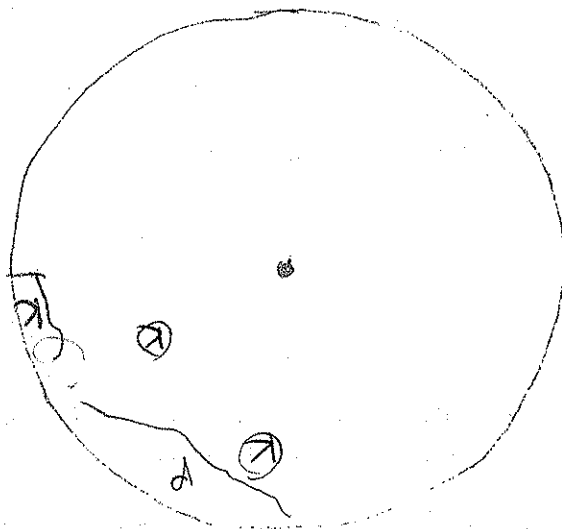
T=Gray tree frog

A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

Seems to be

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Bruce, Ted, Phyllis, Jack Route: _____

Survey Date: May 1 Run Number: 2 Point Number: 2

Before starting survey, stay in place in silence for five minutes.

Pen
well heard

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:32	60°	1 N	2	N 2	9:35

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None

Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Don't guess at the time. Make sure it is exactly 3 minutes. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
Peepers	C	
Pickering	C	

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

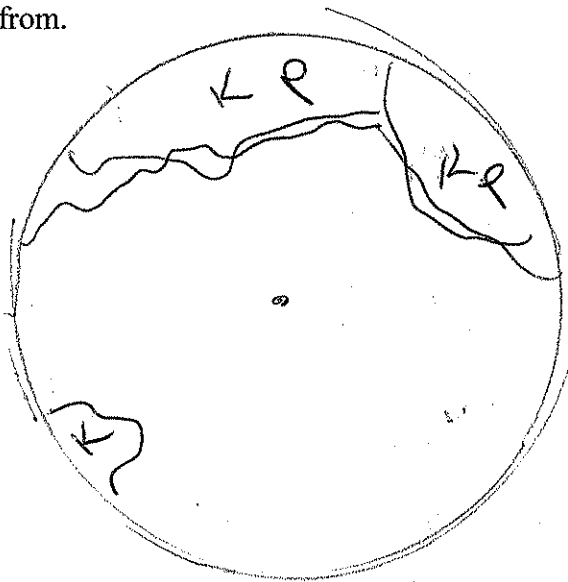
T=Gray tree frog

A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog



Additional Notes and Observations: *(Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).*

Coyotes in distance
Many Barred Owls

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis Clawson Route: _____

Survey Date: 5-1-07 Run Number: 2 Point Number: 7

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:04	64°	1 N	2	N	9:07

The temperature in the past 48 hours has primarily been: (circle one)
Above freezing Below freezing

Has there been precipitation in the past 48 hours? (circle one)
 No precipitation *Some precipitation* Much precipitation

Precipitation during visit: (circle one)
None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>Peepers</u>	<u>C</u>	
<u>Pickers</u>	<u>C</u>	

Amphibian Monitoring In and Around Bare Hill Pond

Observer: P. Clawson Route: _____

Survey Date: 5-1-07 Run Number: 2 Point Number: 4

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:30	64.60°	1 E	2		9:33

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>peepers</u>	<u>C</u>	
<u>pickers</u>	<u>C</u>	

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

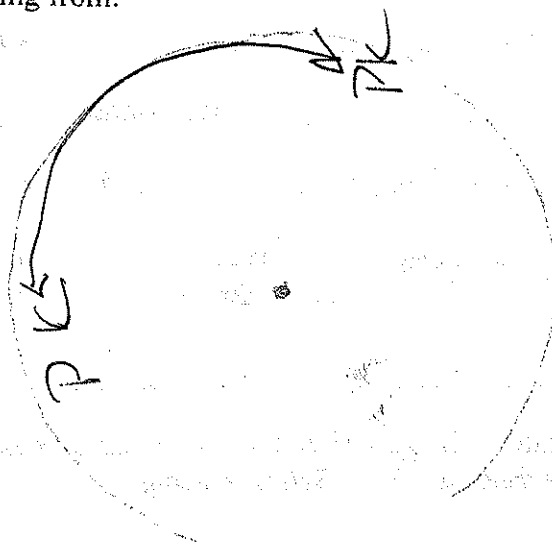
T=Gray tree frog

A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

air traffic

train noise

owls

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis + Rob Clawsen Route: _____

Survey Date: May 11, 07 Run Number: 2 Point Number: 7

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:27	69°	#1 NW	2	1	9:30

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None Fog/Mist Light rain/drizzle Medium rain Hard rain Hail Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>peepers</u>	<u>C</u>	
<u>pickers</u>	<u>B/C</u>	<u>65-140</u>

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

T=Gray tree frog

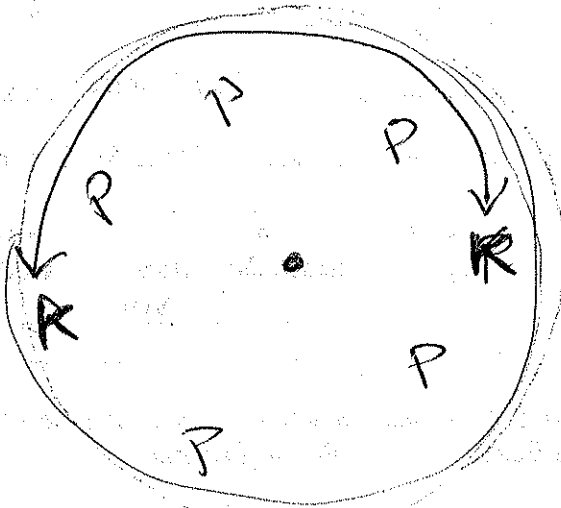
A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog

K = pickerel



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

2 planes, overhead

1 train

spotlight on house across cove

splash to left, fish? frog?

some distress calls

Amphibian Monitoring In and Around Bare Hill Pond

Observer: Phyllis + Rob Clawson Route: 2

Survey Date: May 11, 07 Run Number: 2 Point Number: 4

Before starting survey, stay in place in silence for five minutes.

Start Time	Air Temp (F)	Wind (Scale/Direction)	Sky (Code)	Noise (Y/N & Index)	End Time
9:57	71	0	1	1	10:00

The temperature in the past 48 hours has primarily been: (circle one)

Above freezing

Below freezing

Has there been precipitation in the past 48 hours? (circle one)

No precipitation

Some precipitation

Much precipitation

Precipitation during visit: (circle one)

None

Fog/Mist

Light rain/drizzle

Medium rain

Hard rain

Hail

Snow

Frog and Toad Observations:

Call Index:

A=Calls can be counted, no overlapping B=Calls can be distinguished, some overlapping C=Full chorus, continuous and overlapping

If the call index is A or B, count the number of calls for each species in a 3 minute period. Record the species followed by the number of calls.

Species	Call Index	Number of Calls
<u>Poo Pers</u>	<u>C</u>	
<u>Pickerel</u>	<u>C</u>	
<u>green</u>	<u>A</u>	<u>5</u>

If the observer is facing north in the point in the middle of this circle, mark by frog species where the calls are coming from.

B=Bullfrog

G=Green frog

W=Wood frog

P=Spring Peeper

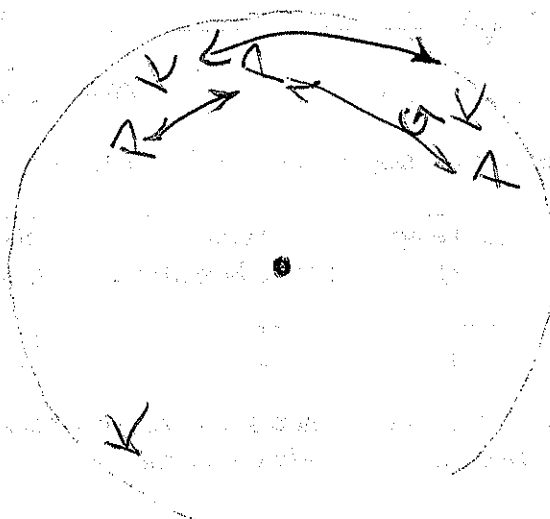
T=Gray tree frog

A=American toad

F=Fowler's toad

E=Eastern spadefoot toad

M=Mink frog



Additional Notes and Observations: (Use this space to record sightings of other animal species, or other facts about your visit to this point that you think are notable).

airplanes

train incl. horn

lights from cars going across cave

voices from school

distant traffic.

RI State Bassmasters

Rhode Island Bass Federation Club

April 30, 2007



2007 Standings

BARE HILL POND 4/29/07

Menu

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[Rules](#)
[Hall Of Fame](#)
[Anglers](#)
[Live Well](#)
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Nex Tournai

May 20, 1
John's
Mashpe
7am -
Direct

June 3, 2
Singletar
Mashpe
6am -
Direct

	Angler	Tournaments	# Fish	Penalties	lbs/fish	Weight
1.	Doro, Mike	1	5	0.00	3.31	16.55
2.	Horne, Greg Jr.	1	5	0.00	2.92	14.62
3.	Hinkley, John	1	5	0.00	2.20	11.00
4.	Worden, Steve	1	5	0.00	2.19	10.95
5.	Donato, Jimmy	1	5	0.00	1.87	9.33
6.	Frazier, Dave	1	4	0.00	1.94	7.75
7.	Gabortault, Tom	1	5	0.00	1.4	7.00
8.	Donato, Tony	1	5	0.00	1.21	6.03
9.	Bettencourt, Mike	1	3	0.00	1.88	5.66
10.	Alves, Roger	1	5	0.00	1.05	5.26
11.	Horne, Greg Sr.	1	5	0.00	1.02	5.09
12.	Picard, Paul	1	4	0.00	1.08	4.34
13.	Curry, Mike	1	3	0.00	1.41	4.23
14.	Carter, Niles	1	1	0.00	2.91	2.91
15.	Waddell, Bryon	1	2	0.00	0.86	1.73
	Totals :	0	0	0.00	0.00	0.00

Average fish : ~~0.00~~ lbs **62** **112.45**
1.81 lbs

Rules • Anglers • 2007 Schedule • 2007 Standings •
2006 Schedule • 2006 Standings

For additional information, contact RIStateBassClub@aol.com



Commonwealth of Massachusetts

Division of Fisheries & Wildlife

Wayne F. MacCallum, Director

Massachusetts Bass Tournament Creel

Club: X-STREAM Date: 04/22/07

Tournament Location: BAREHILL Town: HARVARD

Public Access Permit # (if applicable): N/A

Start Time: 7:00 AM ☒ PM ☐ End Time: 3:00 AM ☐ PM ☒

Number of Anglers: 12

Number of Anglers Weighing Bass: 10

Number of Anglers with Bass Limit (5): 1

Total Number of Bass Weighed In: LMB 26 SMB 1

Number Over 5 Pounds: LMB 1 SMB 1

Number of Bass Returned Alive: LMB 26 SMB 1

Total Weight: 61-1302

Winning Weight: 11-902 Number of Fish for Winning Weight: 3

Big Bass: LMB 5 lb 10 oz SMB 1 lb 3 oz

Comments: BRUCE, IT'S THE ONLY FORM I HAD, ANY

FURTHER INFO NEEDED PLEASE CALL.

RON MATTHEWS 978-249-5894

Questions please contact Richard Hartley @ (508) 792-7270 ext. 132

Please Mail To: Richard Hartley
MassWildlife
Route 153
Westborough, MA 01581

www.masswildlife.org

Division of Fisheries and Wildlife
Field Headquarters, One Rabbit Hill Road, Westborough, MA 01581 (508) 792-7270 Fax (508) 792-7275
An Agency of the Department of Fisheries, Wildlife & Environmental Law Enforcement



MassWildlife

Commonwealth of Massachusetts

Division of Fisheries & Wildlife

Wayne F. MacCallum, Director

Massachusetts Bass Tournament Creel

Club: BLACKSTONE VALLEY BASS ANGLERS Date 5/19/07

Tournament Location: BAREHILL POND Town: HARVARD

Public Access Permit # (if applicable): N/A

Start Time: 7:00 AM PM End Time: 3:00 AM PM

Number of Anglers: 10

Number of Anglers Weighing Bass: 10

Number of Anglers with Bass Limit (5): 10

Total Number of Bass Weighed In: LMB 50 SMB 0

Number Over 5 Pounds: LMB 0 SMB 0

Number of Bass Returned Alive: LMB 50 SMB 0

Total Weight: 116.47 lbs.

Winning Weight: 16.47 lbs. Number of Fish for Winning Weight: 5

Big Bass: LMB 4 lb 8 oz SMB 1 lb 1 oz

Comments: I THANK YOU FOR THE USE OF YOUR LAKE.
AS ALWAYS, I'LL TAKE PRIDE IN KEEPING IT CLEAN FOR
FUTURE GENERATIONS TO ENJOY AS I DO. PAUL MERO
978-562-1895

Questions please contact Richard Hartley @ (508) 792-7270 ext 132

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N.H. Fish and Game Department
Fisheries Division
11 Hazen Drive, Concord, NH 03301

BASS TOURNAMENT RECORD FORM

Complete and mail to above address
Within 30 days of tournament date.

CLUB NAME:	Forge Pond Bassmasters		
CONTACT NAME AND ADDRESS:	Robert Goss		
TOURNAMENT LOCATION:	Bare Hill		
TOURNAMENT DATE:	May 20-2007	← Please fill in one sheet for each date of your contest	
TOURNAMENT HOURS:	START: 7:00	END: 3:00	
TOTAL NUMBER OF PARTICIPANTS:	16	TOTAL TOURNAMENT HOURS:	8
TOTAL ANGLER HOURS:	128	MINIMUM BASS LENGTH:	12
TOTAL NUMBER OF LARGEMOUTH ENTERED IN TOURNAMENT:	52	TOTAL NUMBER OF SMALLMOUTH ENTERED IN TOURNAMENT:	0
TOTAL NUMBER OF LARGEMOUTH RELEASED ALIVE:	51	TOTAL NUMBER OF SMALLMOUTH RELEASED ALIVE:	0
TOTAL WEIGHT OF ALL LARGEMOUTH:	140.63	TOTAL WEIGHT OF ALL SMALLMOUTH:	0
AVERAGE WEIGHT OF LARGEMOUTH:	2.70	AVERAGE WEIGHT OF SMALLMOUTH:	0
WEIGHT OF LARGEST LARGEMOUTH:	4.52	WEIGHT OF LARGEST SMALLMOUTH:	0
TOTAL TOURNAMENT WEIGHT:	140.63	MAXIMUM NUMBER OF BASS ALLOWED TO BE WEIGHED IN PER ANGLER:	5
WINNING WEIGHT	15.25		

COMMENTS: Please use the comments section to give us any other relevant information, ie: weather, conditions, etc

**MR. & MRS. ROBERT B. LOVELACE
BOB & MARY
23 LAWTON ROAD
SHIRLEY, MA 01464
(978) 4254376**

June 3, 2007

**Mr. Bruce Leicher
58 Warren Avenue
Harvard, MA 01451**

Dear Mr. Leicher:

Bare Hill Anglers held their tournament Saturday June 2nd and we wanted you to know that most of us have fished Bare Hill for many years, myself for at least 40. We wanted to compliment the Harvard Parks and Recreation Commission on their conservation of this fine pond.

As you can see by our tournament report, the fishery at Bare Hill is excellent! We as individuals and as a club look forward to many more years of fine fishing. Please keep up the good work.

Regards,

A handwritten signature in cursive script that reads "Robert Lovelace". The signature is written in dark ink and is positioned to the left of the printed name and title.

**Robert Lovelace
Tournament Director
Bare Hill Anglers**

Enclosure (Tournament Report)

BARE HILL ANGLERS TOURNAMENT TALLY SHEETTOURNAMENT LOCATION: BARE Hill PondDATE: 6-2-07

ANGLER	Weight		TOTAL WEIGHT	Minus Penalty Weight	FINAL WEIGHT	LUNKER WEIGHT	Tournament Standing
	Large Mouth	Small Mouth					
Boisseau, Curt	5	-	8.80		8.80	4.13	7
Garey, Dave	5	-	18.80		18.80	4.79	①
Hurley, chris	5	-	15.81		15.81	4.11	4
Lovelace, Bob	5	-	18.58		18.58	4.71	2
Lovelace, Mary	5	-	8.22		8.22	2.67	8
Mead, John	5	-	15.44		15.44	4.66	5
Prescott, Fred	5	-	14.98		14.98	5.01	6
Rockwell, Sheldon	5	-	18.15		18.15	6.23	3
Watts, Jim							
TOTALS	40				118.78		

PENALTIES:

SHORT FISH: Weight of fish does NOT count. In addition subtract 16 ounces (one pound) for each short fish weighed in.

DEAD FISH: Weight of fish COUNTS for part of total weight. Then subtract .125 pounds (2 ounces) per pound of DEAD FISH weight from total weight.



Commonwealth of Massachusetts

Division of Fisheries & Wildlife

Wayne F. MacCallum, Director

Massachusetts Bass Tournament Creel

Club: Chelmsford Bass Tacklers Date: 5/26/07

Tournament Location: Burchill Pond Town: Harvard

Public Access Permit # (if applicable): N/A

Start Time: 7:00 AM/PM End Time: 3:00 AM/PM

Number of Anglers: 24 - (12 Teams)

Number of Anglers Weighing Bass: 24 (12 Teams)

Number of Anglers with Bass Limit (5): 24 (12 Teams) 8 Fish Limits

Total Number of Bass Weighed In: LMB 96 SMB X

Number Over 5 Pounds: LMB 2 SMB X

Number of Bass Returned Alive: LMB 94 SMB X

Total Weight: 288.9

Winning Weight: 28.96 Number of Fish for Winning Weight: 8

Big Bass: LMB 6 lb 05 oz SMB X lb X oz

Comments: Air Mostly Sunny Low 80's - Water temp Low-Mid 70's

Water Level High

Questions please contact Richard Hartley @ (508) 792-7270 ext. 132

Please Mail To: Richard Hartley
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An Agency of the Department of Fisheries, Wildlife & Environmental Law Enforcement

Location

Exhibit F

November 16, 2003

Teri 100' Segment Sites

WILDLIFE, HABITAT AND VEGETATIVE ASSESSMENT
OF BARE HILL POND, HARVARD (MA)

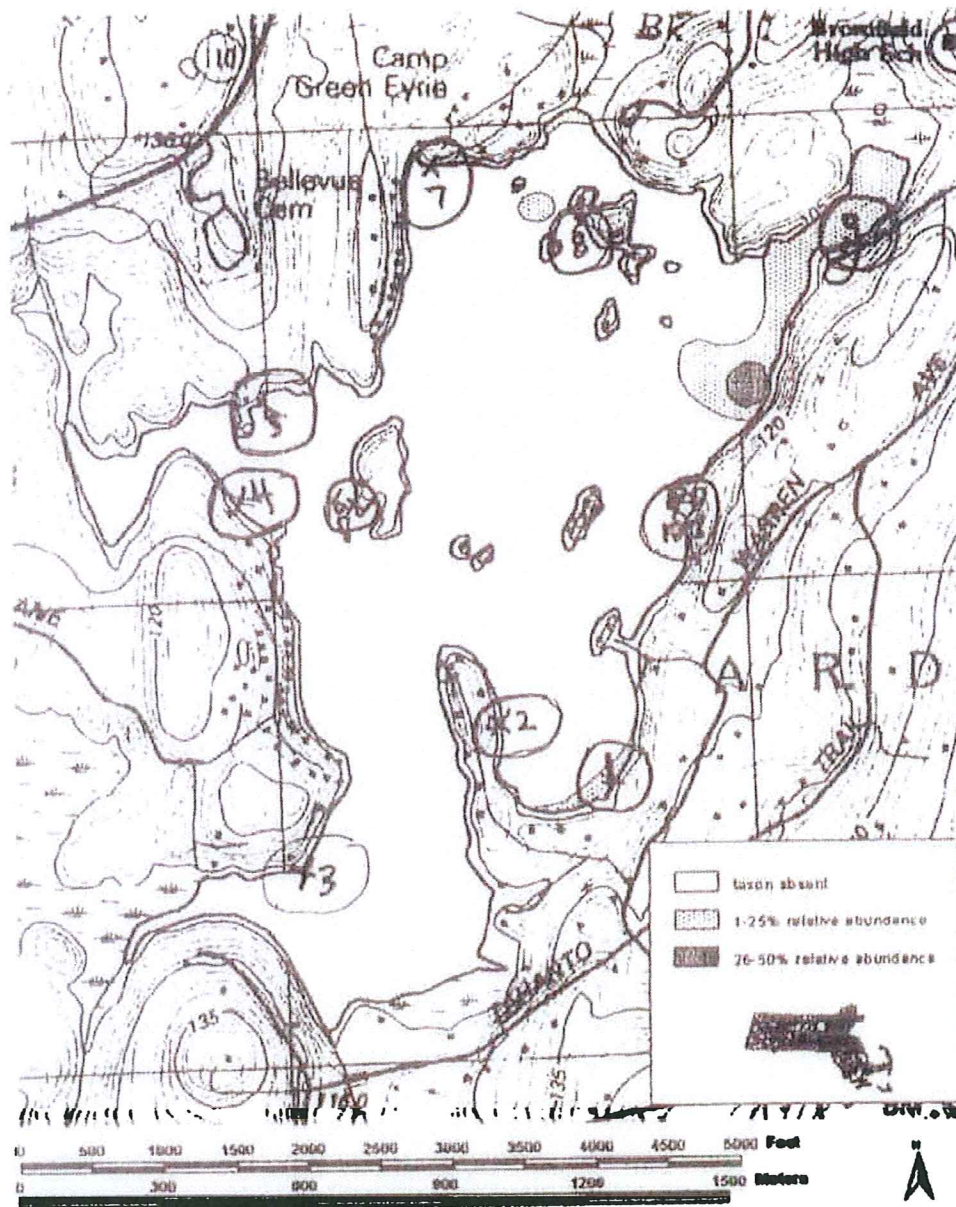
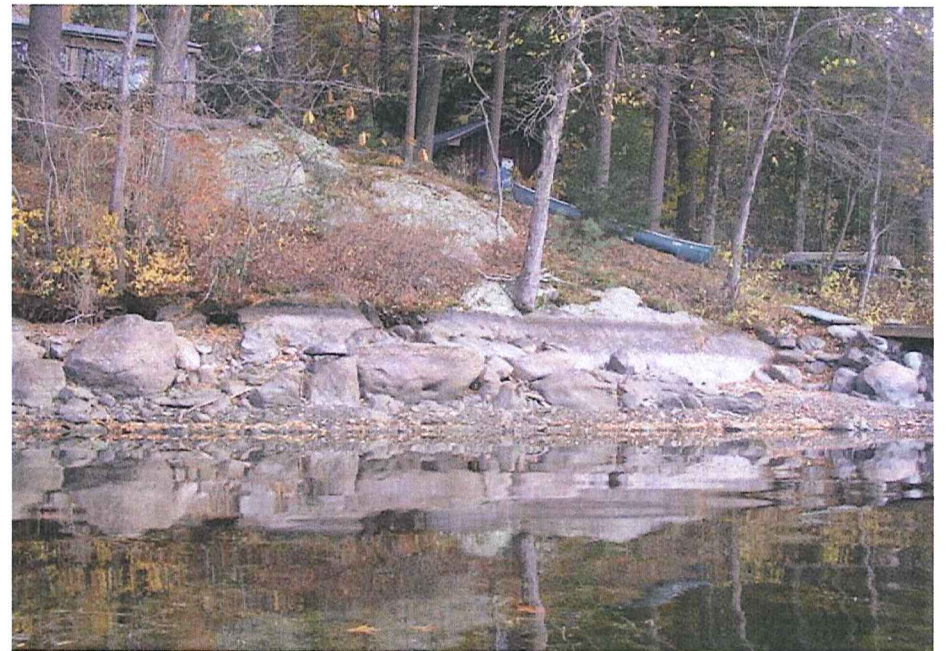


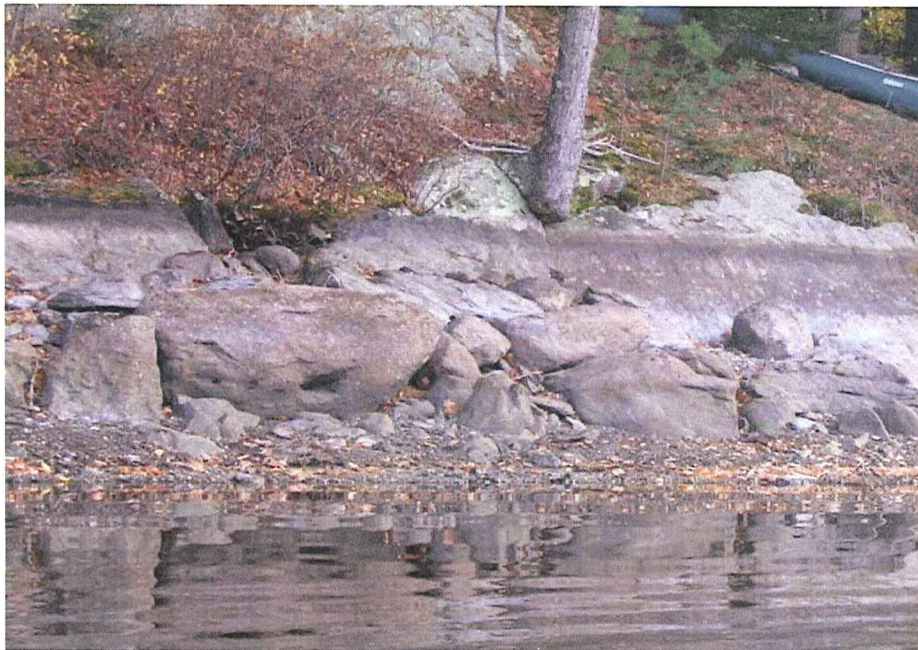
Figure 6. Distribution and relative abundance of farwort (*Cabomba caroliniana*) in Bare Hill Pond in October 2001, from data in Appendix A.

Site 1

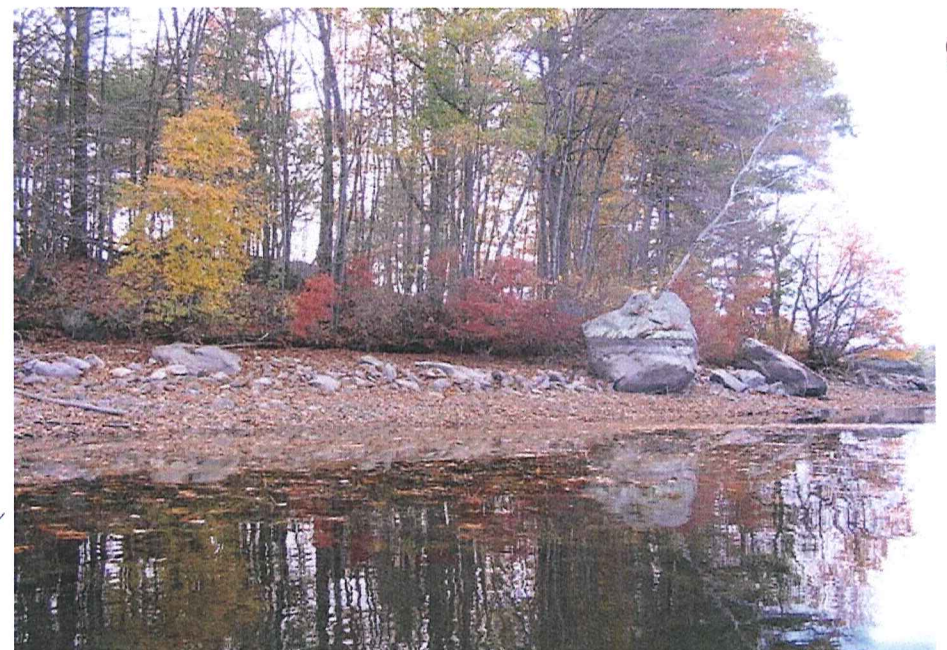


F-2

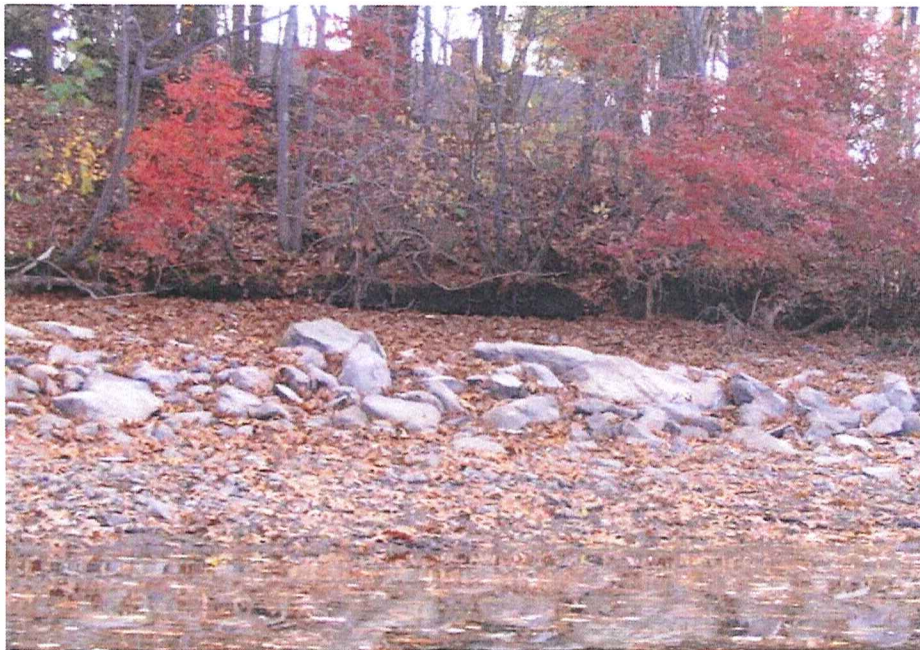
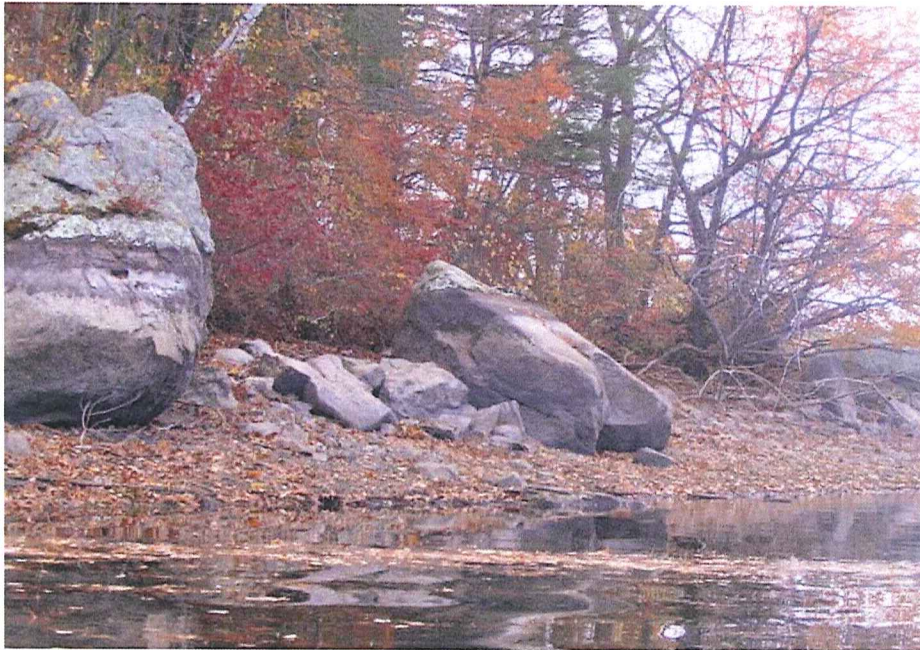
Site 1



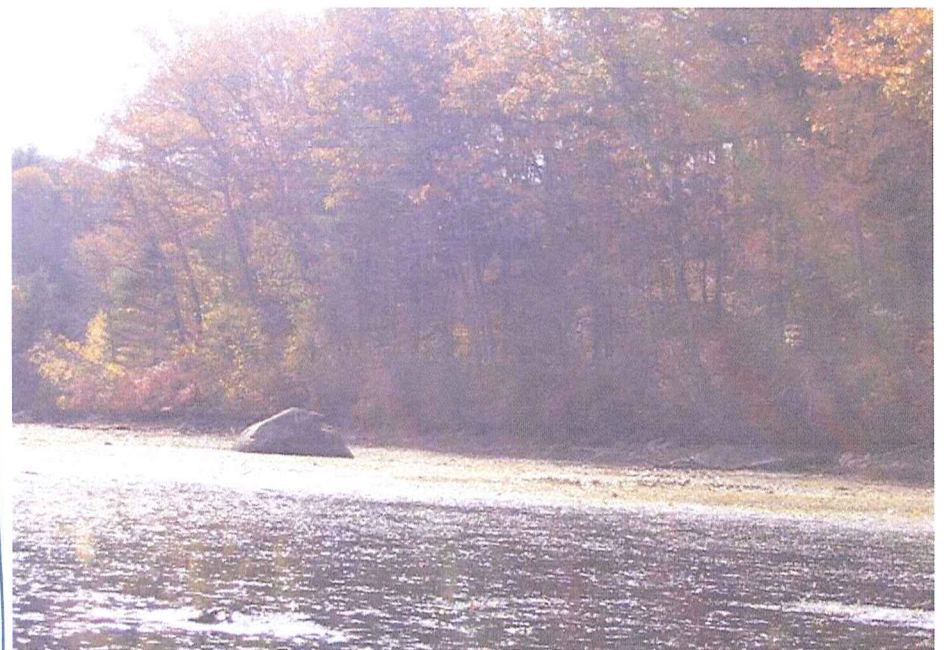
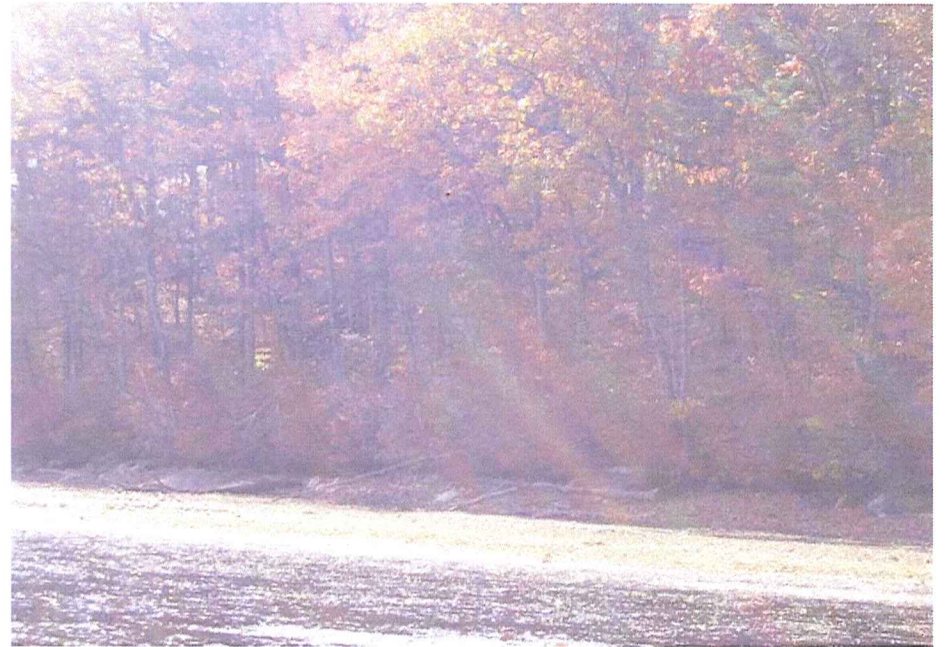
Site 2



Site 2

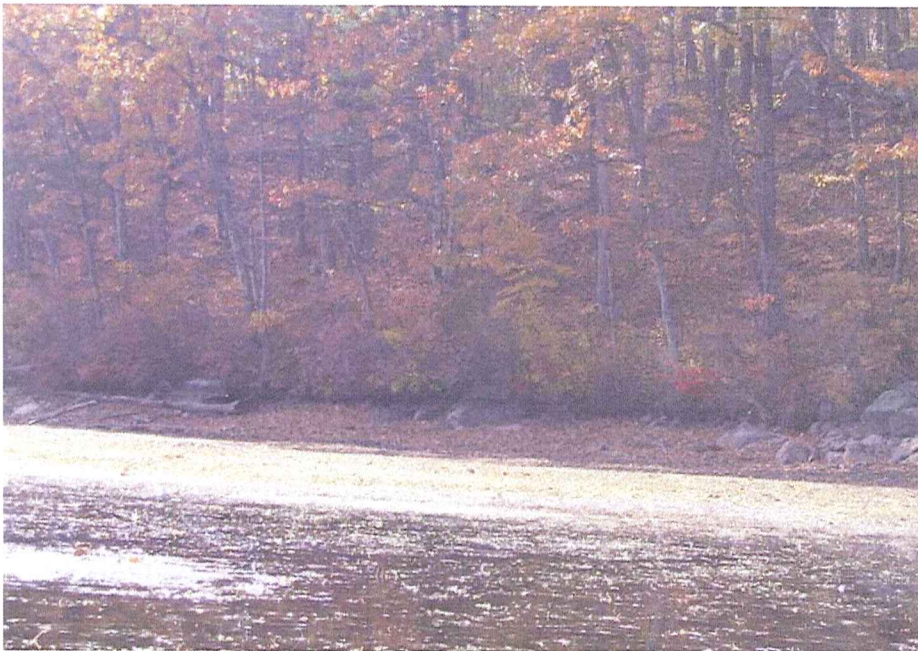
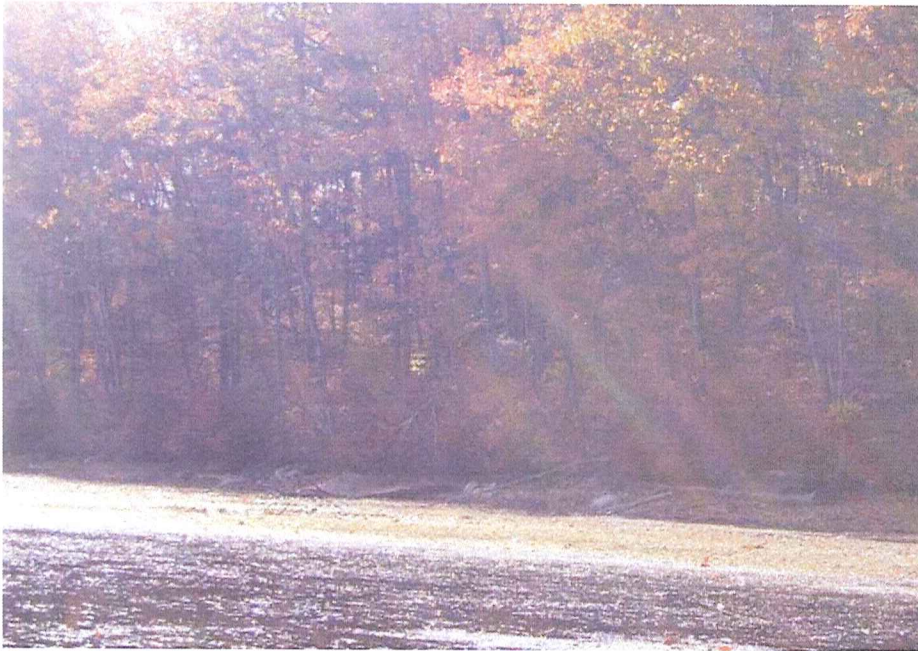


Site 3



f-4

Site 3



Site 06



F-5

~~Site 5~~ Site 5 From Shore Outer Clapps Brook



F-6

S. 15

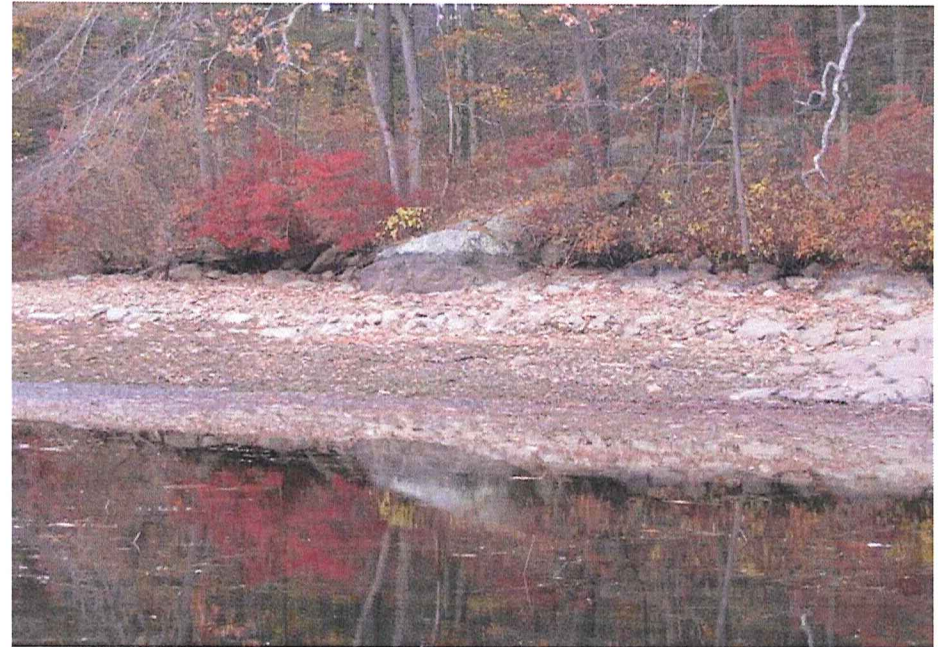


F-7

Site 5

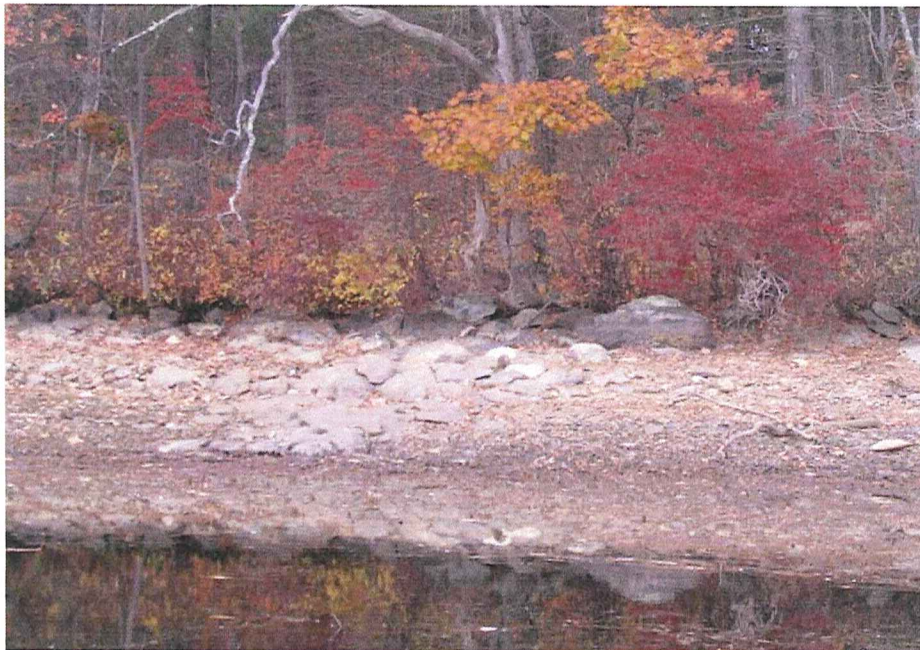


Site 7



8-1

Site 8 J



~~Site 8 J~~

Site 8



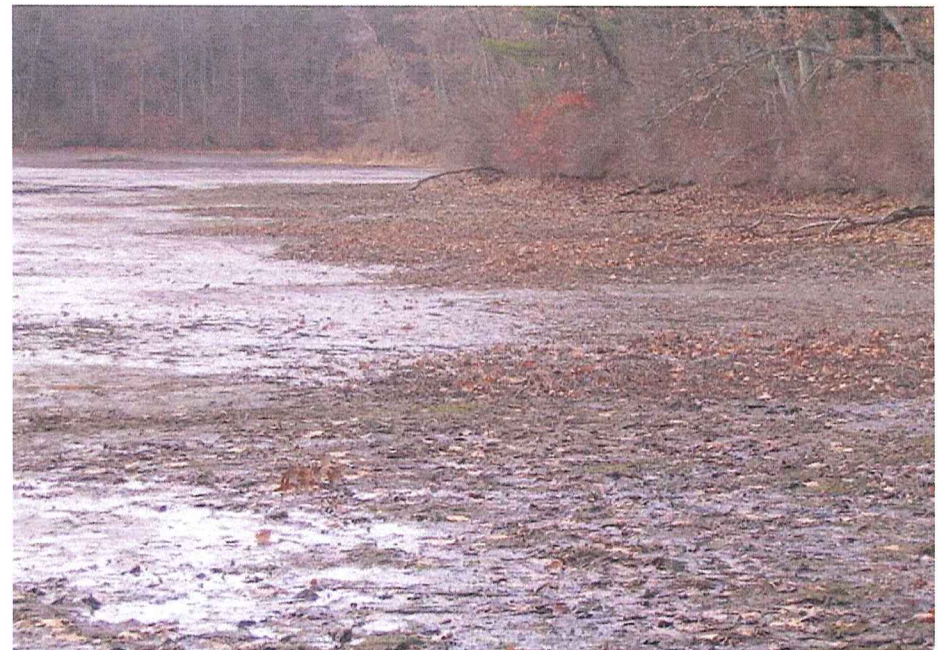
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Site 9



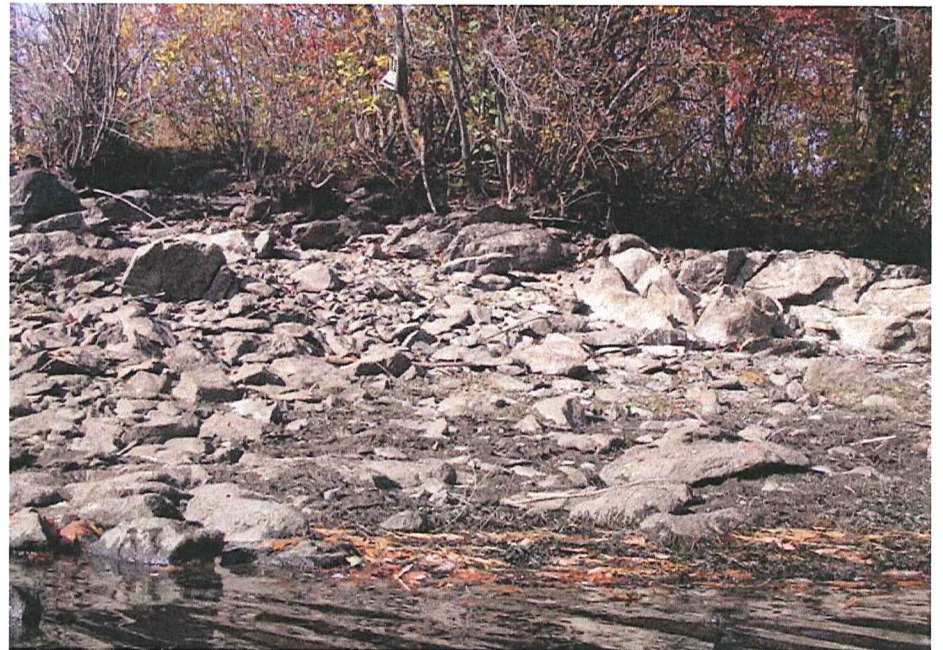
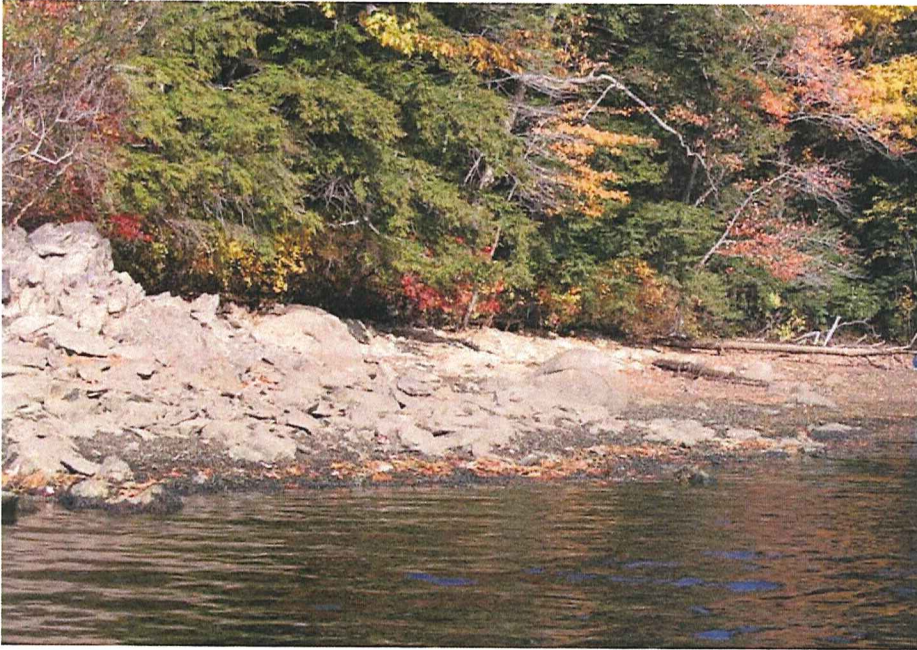
11-11

Sta 9



F-12

Site 10



F-13