



The Yoho Echo

Newsletter of the Yoho Lake Association

Volume 13, Issue 1

February 2013

Update on Water Monitoring Program

Kim Lipsett with Warren McLaughlin

As some of you know, dedicated volunteers with the Water Committee of the Yoho Lake Association spent many days from June to October 2012, testing the water quality of Yoho Lake.

Those volunteers were Warren McLaughlin, Darren Chamberlain, Jim Hallett, Victor Hendricks, and Michèle Roussel.

The volunteers used equipment purchased with grant money from the New Brunswick Environmental Trust Fund. After being trained in June by staff with the Department of the Environment, they tested water every two weeks at four carefully selected sites on the lake.

By October they had accumulated a total of ten data sets. This is a real accomplishment, given that they shared the equipment with other lake associations. And that we had a very windy summer.

The raw data gathered through their efforts is now available in table form. The Water Committee wants to keep all Yoho residents informed about how the monitoring program is progressing. Therefore, we have included the raw data on pages 5 and 6 of this newsletter.

When more data is collected, we may be able to notice trends and to assess changes in lakewater quality over time.

As the monitoring program continues, we would greatly appreciate help from other people around Yoho Lake. We need more committed volunteers willing to offer their time and, if possible, their boats.

We will provide all the necessary training and water testing equipment. We cannot promise perfect weather for every outing (!), but we guarantee you will have a lot of fun joining us in this important work.

If you can help with our water monitoring program, please call Kim at (506) 474-8008.

Upcoming Events Around Yoho Lake

What Adopt-a-Highway Spring Cleanup
When Saturday May 25, 2013

Details Meet at the mailboxes on the Yoho Lake Road at 9 a.m. to 'get' your area. Garbage bags, collector-item hats (only a few left), and smiles provided.

What Spring Septic Pump-Out: Group Rate
When Dates TBA in early spring.

Details Pump out your Yoho septic or holding tank this spring for a reduced, group rate.

What Annual General Meeting for YLA
When Sunday August 18, 2013
1:30 p.m.–3:30 p.m. or so

Details Meet at the Main Lodge of the Yoho Scout Reserve, Yoho Lake. Agenda TBA later.



Fox track intersecting red squirrel track, Yoho



**Yoho Lake Association
Executive and
Committee Chairs**

President

Bonny Hoyt-Hallett

Vice-President

Sean Haley

Secretary

Ann Bridges

Treasurer

Mark Roach

Director-at-Large

Walter Bidlake

Scout Camp Representative

Dean Munde

Water Committee

Kim Lipsett, Victor Hendricken

Adopt-a-Highway Committee

Larry Somerville

Communications Committee

Gwen Martin, Michèle Roussel

Membership Committee

Ann Bridges

Zone Representatives Committee

Walter Bidlake

Constitutional Review

Dean Munde

Zone Representatives

- Zone 1 Sean Haley
- Zone 2 Victor Hendricken
- Zone 3 Walter Bidlake
- Zone 4 Mark Roach
- Zone 5 Jack MacDougall
- Zone 6 Richard Hanson

The Yoho Echo

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President's Message

Another winter has almost passed and, in a few months, the loons will return to our beautiful lake.

Those of you who take advantage of winter at Yoho may have enjoyed great walks in the woods and on the lake. You might even have seen moose tracks along the Scout Camp trail.

These are the kind of things we all appreciate as Mother Nature brings her seasons to Yoho.

The Yoho Lake Association (YLA) executive and committees have held many meetings since the end of summer 2012, working on behalf of all Yoho residents. (We gratefully acknowledge YLA secretary Ann Bridges for taking and transcribing all the meeting minutes.)

Here is a partial list of what we've been up to.

- Water monitoring continued into October, as Warren McLaughlin and Darren Chamberlain sampled the lake for temperature, water clarity, and oxygen level data.

Many thanks to Warren, Darren (with his excellent boat) and other volunteers for their diligence. They tabulated results every two weeks and ensured that the equipment was ready to share with Davidson Lake.

- We submitted a second joint application to the Environmental Trust Fund in December 2012 to seek more water monitoring equipment for 2013. We will learn in April whether the application is successful.
- The YLA executive continued to meet with four of our neighbouring lakes (Harvey, Magaguadavic, George, Davidson) to share ideas and concerns. The group has expanded since last summer to include Oromocto Lake.
- In February 2013 a group of people (including me and Kim Lipsett, co-chair

Bonny Hoyt-Hallett

of the YLA Water Committee) from New Brunswick lakes met to discuss the possible formation of a provincial lake association. The conference received great media attention and generated much interest in water monitoring. We will discuss this concept further at the Annual General Meeting (AGM) of the YLA in August 2013 and would greatly value your input.

- We're assembling a **Welcome Back to the Lake** package of articles and news items you'll find useful and interesting. Walter Bidlake and the zone representatives will deliver the package to you in late spring. Watch for it hanging on your door handle. As always, we welcome your feedback.
- We've arranged a group discount rate for septic pump-outs this spring. Don't miss this great deal! Dates for the pump-out event will be in your Welcome Package. YLA vice-president Sean Haley is handling the initiative.
- When you return, you'll also notice **Phosphate-Free Zone** signs along the road, put up by YLA treasurer Mark Roach. (On a related note, please see Michele Roussel's article on page 3 about going phosphate-free at Yoho.)
- Thanks to the efforts of Dean Munde, the Scout Camp representative for the YLA, the Yoho Scout Reserve will also post signs at its lodges to make sure all visitors use only phosphate-free products. Dean's article on page 4 gives more information.

As you can see, your lake association is alive and well. We have nearly 80 members and would love to reach 100 this season. Please help us to meet this goal. Meanwhile, we'll see you around the lake through the summer ... and at the Annual General Meeting on Sunday August 18, 2013.

Holding Tanks: Here's the Math

Many Yoho Lake properties sit on small lots. Soil around the lake tends to be shallow and stoney, with rock just below the surface.

In some cases, these conditions make it impossible to have a traditional septic system. Instead, landowners install a holding tank to handle sewage and grey water.

A holding tank is basically a sealed concrete, steel or plastic containment unit that receives wastewater. The tank stores waste until it is pumped out by a licensed company and hauled to a receiving facility.

Unlike a septic tank, a holding tank has no outlet pipe. It must be watertight. A professionally installed holding tank has an alarm to alert the owner when the tank is nearly full and needs an immediate pump-out. If not pumped out soon, the tank will overflow. And if it overflows, it can leak E-coli and other bacteria into nearby wells, lakes and streams.

At the AGM in August 2012, several Yoho residents wanted to know how often their holding tank might need pumping out. And how they could tell whether it was leaking. These are good questions.

First and most obviously, make sure the alarm on your tank works. Sometimes an alarm can short out. Second, do the math using the following facts.

- Fact 1: Most sources say that the average household uses 40 gallons of water per day *per person*. Environment Canada quotes 80 gallons per day, but that seems high.
- Fact 2: The average size of a holding tank set in place by a licensed installer ranges from 250 to 2000 gallons.

Just as an example, let's take a family of two living at Yoho Lake with a 1000-gallon holding tank.

Two people using 40 gallons per day = $2 \times 40 = 80$ gallons per day. Divide 1000 gallons by 80 gallons per day ... and you get 12.5 days.

In other words, your 1000-gallon holding tank will need to be pumped out roughly every two weeks.

Hard to believe, isn't it? And that's not even counting what happens when friends and family come to visit.

If your alarm doesn't go off every two weeks or so, it means one of three things:

- your water usage is much, ***much*** lower than average (no laundry, no daily showers, no dishwasher, etc.), or
- your tank is a much larger than 1000 gallons (check your installation receipt), or
- your tank is leaking.

Yoho Lake: New Brunswick's Newest Phosphate-Free Zone

At the YLA's Annual General Meeting in August 2012, we heard strong evidence that phosphates are the main cause of blue-green algae in lakes. The algae can cause major health risks, harm wildlife, and lower property values.

Residents at the meeting agreed to make Yoho a phosphate-free zone. That means we are committed to using only phosphate-free household products around Yoho Lake.

It takes less than a minute to read a label ... to make sure a product is free of phosphates.

This single step will make a huge difference and help to protect Yoho Lake against blue-green algae.



If the numbers don't seem to add up, then your system needs to be inspected by a licensed septic contractor. Chances are, it might not be working properly and is leaking harmful bacteria into your well or the lake.

Note: A good way to check your daily water usage is to get a water meter. Place it on the output line of your water pump. Then read the meter each day for a few weeks, making sure you take into account any outdoor use such as watering your vegetable garden.

Article adapted from *Technical Guidelines for a Site Sewage Disposable System*, New Brunswick Department of Health (www.gnb.ca/health)

Aquatic Invasive Species: Stop the Spread

Michèle Roussel

Aquatic invasive species (AIS) are aquatic plants and animals that end up in areas where they are not native. Usually, they are introduced by human activities, and often they are spread by boating.

Aquatic invasive species can totally disrupt the ecosystem of a lake. They can replace native plants used by local fish for food or habitat. They can compete with native shoreline vegetation. They can form thick mats of goop that make it hard to boat or swim.

Or they can eventually 'kill' a lake. Blue-green algae is one of the worst (but not the only) such species.

Many aquatic invasive species will attach to hard surfaces such as the bottoms or sides of boats. That makes it easy for them to be transported from one lake to another.

Let's say you are from Yoho and visit another lake with your boat. The other lake supports a kind of aquatic grass that does not live in Yoho Lake. Or maybe the other lake contains blue-green algae. You go boating on that lake, and your propeller picks up some of the grass...coated with blue-green algae.

If you come home and launch your uncleaned boat into Yoho Lake, you have introduced two invasive species into the lake. It's that easy.

So how can we protect Yoho Lake from aquatic invasive species? It takes time but is well worth the trouble.

- After you and your boat visit another lake, wash and dry the boat, tackle, downriggers and trailer. Wash the paddles and oars. This goes for motor boats, canoes, kayaks and sailboats.
- With jet skis, you also need to clean all water intakes and related parts.
- Inspect your boat, trailer, anchors, centreboards, rollers and axles before entering or leaving a lake. Remove any attached plants or aquatic beasts such as snails.
- Drain all water from the motor, transom wells and other parts where it can get trapped. Do this on the shore of the visited lake before returning to Yoho Lake.
- Never release live bait from one lake into another.
- When cleaning your fishing lines, collect plant fragments in a bucket and dispose of them properly onshore.
- Stay informed about which lakes have been posted as 'at risk' or 'infested.'

Please use phosphate-free, environmentally friendly products when cleaning your boat and equipment. They will help to kill invisible, harmful species. See Ecologo at <http://www.ecologo.org/en/> for a list of inexpensive products.

[Ed.'s note: this article is the third in the Lake Stewardship 101 series.]

Scouts Corner

Dean Mundee

A growing number of Scout youths and leaders enjoyed the outdoor experience at the Yoho Scout Reserve during 2012. Provincial events and summer camps filled the year. We anticipate 2013 to be equally if not more active.

Last season we also hosted eight non-scouting functions such as family reunions and weddings booked by individuals, families and groups. We expect that number to double in 2013–14.

We are always careful about the safety of our visitors and so greatly appreciate the caution you show when driving along the Yoho Lake Road during posted events.

To reduce the risk of accidents, we are obtaining more signs to warn drivers when large numbers of people are on the Scout Reserve. Thanks again for your care.

A few months ago, Yoho residents discussed making Yoho Lake a phosphate-free zone. The discussion took place at the 2012 AGM of the Yoho Lake Association.

Since the late 1990s, Scouts Canada has required all scout properties to be phosphate-free. Your interest in this important action has redoubled our commitment to eliminating phosphates from the Yoho Scout Reserve.

We will post signs on our buildings. We will add information to our website. And we will let visitors know about our phosphate-free commitment when they make their booking, so they can be prepared ahead of time.

We've had a great winter for snow. However, that increases our challenge to keep the Scout property safe from snowmobile traffic.

The Yoho Scout Reserve does not allow snowmobiles or ATVs on its property. Such vehicles must not access the trail systems around the Scout property by passing through it, especially around the two lodges and the Miller campsite area. The safety of our youth and volunteers is paramount. Please choose an alternative route to reach the provincial snowmobile trails.

The Scout Reserve will host several camps this summer. Plans are well underway for fun-filled weeks of scouting and non-scouting activities. Keep an eye out for our Armada of canoes, as skills are honed in advance of river adventures. As always, our Scout Reserve walking trails and paths are there for your enjoyment throughout the year. We hope you have a safe and peaceful summer.

- For information on bookings, contact Linda Boone at (506) 392-6284 or visit this website: yohoscoutreserve.com
- If you are interested in learning more about our summer programs, call John Boyne at (506) 459-8514 or visit this website: scoutsrivorton.org.

Colaborative Lake Monitoring Project Yoho Lake 2012

| 01BR01AM0021 Mouth of Stream | | | | | | | | | | | | | | |
|------------------------------|---------------------------|------|---------------------------|------|--------------------------|------|-----------------------|------|---------------------------|------|--------------------------|------|--------------------------|------|
| Date | July 01/2012 | | July 15/2012 | | July 22/2012 | | July 29/2012 | | Aug 06/2012 | | Aug 13/2012 | | Aug 19/2012 | |
| Monitors | Jim Hallett | | Victor Hendricken | | Darren Chamberlain | | Warren McLaughlin | | Darren Chamberlain | | Michele Roussel | | Darren Chamberlain | |
| | Warren McLaughlin | | Warren McLaughlin | | Warren McLaughlin | | Warren McLaughlin | | Warren McLaughlin | | Warren McLaughlin | | Warren McLaughlin | |
| Exterior Conditions | 27 ° Celsius | | 24 ° Celsius | | 24 ° Celsius | | 24 ° Celsius | | 28 ° Celsius | | 24 ° Celsius | | 19 ° Celsius | |
| Start Time/End Time | Partly cloudy /light wind | | Partly cloudy /light wind | | Mainly Sunny /light wind | | Overcast /light wind | | Partly Cloudy /light wind | | Mainly Sunny /light wind | | Mainly Sunny /light wind | |
| Anchor depth Metres | 7:20 PM / 8:40 P.M. | | 11:00 A.M. / 12:30 P.M. | | 12:15 P.M. / 1:35 P.M. | | 1:15 P.M. / 2:20 P.M. | | 1:00 P.M. / 3:00 P.M. | | 6:54 P.M. / 7:55 P.M. | | 9:00 A.M. / 11:00 A.M. | |
| Secchi reading Metres | 11 | | 11 | | 13.5 | | 13 | | 13 | | 13 | | 13.5 | |
| Depth Metres | 4 | | 5.5 | | 5.5 | | 5 | | 5 | | 5.5 | | 5 | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp |
| 0M | N/T | N/T | 7.6 | 24.4 | 7.5 | 23.6 | N/T | N/T | 7.8 | 24 | N/T | N/T | 7.7 | 23.7 |
| 1M | 8.3 | 22.1 | 7.2 | 24.2 | 7.3 | 23.5 | N/T | N/T | 7.8 | 24 | N/T | N/T | 7.7 | 23.6 |
| 2M | 8.2 | 22 | 7.5 | 23.9 | 7.4 | 23.4 | N/T | N/T | 7.8 | 24 | N/T | N/T | 7.7 | 23.6 |
| 3M | 8.1 | 21.5 | 7.4 | 23.4 | 7.4 | 23.2 | N/T | N/T | 7.7 | 24 | N/T | N/T | 7.4 | 23.6 |
| 4M | 8.1 | 20.1 | 7.5 | 22.5 | 7.4 | 22.8 | N/T | N/T | 7.7 | 23.9 | N/T | N/T | 7.8 | 23.6 |
| 5M | 7.8 | 19.7 | 7.5 | 22.5 | 7.6 | 22.7 | N/T | N/T | 7.5 | 23.5 | N/T | N/T | 7.6 | 23.6 |
| 6M | 7.6 | 18.9 | 6.7 | 19.9 | 6.7 | 20.3 | N/T | N/T | 7.1 | 22.8 | N/T | N/T | 6.7 | 22.9 |
| 7M | 7.4 | 18.2 | 5.1 | 16.5 | 5.3 | 17.1 | N/T | N/T | 5.9 | 21 | N/T | N/T | 5.1 | 21.4 |
| 8M | 5.1 | 15 | 3.6 | 14.8 | 3.2 | 15.2 | N/T | N/T | 2.5 | 16.4 | N/T | N/T | 1.1 | 17.4 |
| 9M | 4.3 | 13.7 | 2.9 | 13.9 | 1.9 | 13.8 | N/T | N/T | 1.5 | 14.7 | N/T | N/T | 0.4 | 15.1 |
| 10M | 3.5 | 12.8 | 1.7 | 12.7 | 1.3 | 12.9 | N/T | N/T | 0.2 | 13.1 | N/T | N/T | 0.1 | 13.1 |
| 11M | | | | | 0.7 | 12.3 | N/T | N/T | 0.1 | 12.8 | N/T | N/T | 0.1 | 12.6 |
| 12M | | | | | 0.4 | 12 | N/T | N/T | 0.1 | 12.5 | N/T | N/T | 0 | 12.5 |
| 13M | | | | | 0.2 | 11.9 | | | | | | | | |

| 01BR01AM0022 South End | | | | | | | | | | | | | | |
|------------------------|------------|------|------------|------|------------|------|----------|------|------------|------|----------|------|----------|------|
| Anchor depth Metres | 4.5 | | 4.5 | | 3.5 | | 4 | | 4.5 | | 3 | | 4 | |
| Secchi reading Metres | 4.5 Bottom | | 4.5 Bottom | | 3.5 Bottom | | 4 Bottom | | 4.5 Bottom | | 3 Bottom | | 4 Bottom | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp |
| 0M | N/T | N/T | 7.3 | 24.4 | 7.3 | 23.4 | N/T | N/T | 8.2 | 24.1 | N/T | N/T | 7.7 | 23.5 |
| 1M | 8.3 | 21.2 | 7.3 | 24.2 | 7.1 | 23.3 | N/T | N/T | 8 | 24 | N/T | N/T | 7.5 | 23.5 |
| 2M | 8.1 | 20.4 | 6.8 | 24.2 | 7.2 | 22.7 | N/T | N/T | 8 | 23 | N/T | N/T | 7.4 | 23.5 |
| 3M | 8.1 | 20.1 | 6.8 | 23.2 | 7 | 22.3 | N/T | N/T | 8 | 23.4 | N/T | N/T | 7.4 | 23.5 |
| 4M | 7.8 | 19.7 | 6.8 | 22.3 | | | N/T | N/T | 7.9 | 23.3 | N/T | N/T | 7.3 | 23.5 |

| 01BR01AM0023 Middle | | | | | | | | | | | | | | |
|-----------------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|
| Anchor depth Metres | 7.5 | | 7.5 | | 7.5 | | 7.5 | | 7 | | 7 | | 7.5 | |
| Secchi reading Metres | 4.5 | | 6 | | 5.5 | | 5.5 | | 5 | | 5 | | 5 | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp |
| 0M | N/T | N/T | 7.7 | 24.3 | 7.5 | 23.9 | N/T | N/T | 7.9 | 24.3 | N/T | N/T | 7.9 | 23.6 |
| 1M | 7.9 | 22.6 | 7.3 | 24.2 | 7.5 | 23.8 | N/T | N/T | 7.7 | 24.2 | N/T | N/T | 7.8 | 23.6 |
| 2M | 8.1 | 21.8 | 7.5 | 23.7 | 7.4 | 23.4 | N/T | N/T | 7.9 | 24 | N/T | N/T | 7.8 | 23.6 |
| 3M | 8 | 21.5 | 7.2 | 23.4 | 7.6 | 23.1 | N/T | N/T | 7.9 | 23.9 | N/T | N/T | 7.8 | 23.6 |
| 4M | 8.3 | 20.3 | 7.2 | 23 | 7.6 | 22.9 | N/T | N/T | 7.5 | 23.9 | N/T | N/T | 7.2 | 23.5 |
| 5M | 8.1 | 19.8 | 7.3 | 21.9 | 7.6 | 22.8 | N/T | N/T | 7.6 | 23.7 | N/T | N/T | 7.1 | 23.3 |
| 6M | 7.6 | 19 | 6.6 | 19.7 | 6.8 | 22.2 | N/T | N/T | 7.7 | 23.5 | N/T | N/T | 6.6 | 23.1 |
| 7M | 6.2 | 16.3 | 4.6 | 16.6 | 4.6 | 16.8 | N/T | N/T | | | | | 3.8 | 20.5 |

| 01BR01AM0024 North End | | | | | | | | | | | | | | |
|------------------------|-----|------|-----|------|-----|------|----------|------|-----|------|------------|------|-----|------|
| Anchor depth Metres | 6.5 | | 6.5 | | 7.5 | | 5 | | 6.5 | | 4.5 | | 5.5 | |
| Secchi reading Metres | 4.5 | | 6 | | 5 | | 5 Bottom | | 5 | | 4.5 Bottom | | 5 | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp | D/O | Temp |
| 0M | N/T | N/T | 7.5 | 24.6 | 7.6 | 24 | N/T | N/T | 7.8 | 24.6 | N/T | N/T | 7.6 | 23.8 |
| 1M | 7.6 | 22.6 | 7.4 | 24.1 | 7.4 | 24 | N/T | N/T | 7.7 | 24.6 | N/T | N/T | 7.5 | 23.7 |
| 2M | 7.8 | 21.8 | 7.4 | 23.9 | 7.5 | 24 | N/T | N/T | 7.8 | 24.5 | N/T | N/T | 7.6 | 23.7 |
| 3M | 7.5 | 21.5 | 7.3 | 23.5 | 7.5 | 23.9 | N/T | N/T | 7.8 | 24.4 | N/T | N/T | 7.7 | 23.7 |
| 4M | 7.9 | 20.3 | 7.2 | 23 | 7.4 | 23.3 | N/T | N/T | 7.7 | 24 | N/T | N/T | 7.5 | 23.5 |
| 5M | 6.4 | 19.8 | 7.4 | 21.3 | 7.3 | 23.3 | N/T | N/T | 7.7 | 23.7 | N/T | N/T | 7 | 23.3 |
| 6M | 5.9 | 19 | 7.1 | 20.5 | 6.3 | 19.3 | N/T | N/T | 7 | 23 | N/T | N/T | | |
| 7M | | | | | 4.2 | 16.9 | | | | | | | | |

Colaborative Lake Monitoring Project Yoho Lake 2012

| 01BR01AM0021 Mouth of Stream | | | | | | | | | | |
|------------------------------|---------------------------|------|---------------------------|------|--------------------------|------|--|--|--|--|
| Date | Sept 02/2012 | | Sept 16/2012 | | Oct 03/2012 | | | | | |
| Monitors | Darren Chamberlain | | Darren Chamberlain | | Darren Chamberlain | | | | | |
| | Warren McLaughlin | | Warren McLaughlin | | Warren McLaughlin | | | | | |
| Exterior Conditions | 19 ° Celsius | | 18 ° Celsius | | 19 ° Celsius | | | | | |
| Start Time/End Time | Partly cloudy /light wind | | Partly cloudy /light wind | | Mainly Sunny /light wind | | | | | |
| Anchor depth Metres | 9:30 A.M. / 11:15 A.M. | | 11:30 A.M. / 1:15P.M. | | 5:38 P.M. / 7:15 P.M. | | | | | |
| Secchi reading Metres | 12.5 | | 13.5 | | 13.5 | | | | | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | | | | |
| 0M | 8.3 | 21.7 | 8.3 | 18.7 | 8.3 | 16.6 | | | | |
| 1M | 8.2 | 21.6 | 8.3 | 18.7 | 8.4 | 16.7 | | | | |
| 2M | 7.8 | 21.5 | 8.3 | 18.7 | 8.3 | 16.6 | | | | |
| 3M | 8.1 | 21.4 | 8.2 | 18.7 | 8.3 | 16.6 | | | | |
| 4M | 7.8 | 21.4 | 8.2 | 18.7 | 8.2 | 16.1 | | | | |
| 5M | 8.1 | 21.3 | 8.1 | 18.7 | 8.1 | 16 | | | | |
| 6M | 7.8 | 21.2 | 8.1 | 18.7 | 7.6 | 15.7 | | | | |
| 7M | 7.5 | 20.8 | 8.2 | 18.7 | 7.6 | 15.5 | | | | |
| 8M | 6 | 20.6 | 8.1 | 18.6 | 7.8 | 15.5 | | | | |
| 9M | 0.1 | 15.5 | 8.1 | 18.6 | 7.4 | 15.4 | | | | |
| 10M | 0.1 | 13.4 | 3.1 | 16.9 | 7.5 | 15.3 | | | | |
| 11M | 0.1 | 12.7 | 0.1 | 13.2 | 7.8 | 15.3 | | | | |
| 12M | 0.1 | 12.4 | 0.1 | 12.4 | 7.6 | 15.3 | | | | |
| 13M | | | 0.1 | 12.1 | 8 | 15.3 | | | | |
| 01BR01AM0022 South End | | | | | | | | | | |
| Anchor depth Metres | 3.5 | | 3.5 | | 4.5 | | | | | |
| Secchi reading Metres | 3.5 Bottom | | 3.5 Bottom | | 3.5 Bottom | | | | | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | | | | |
| 0M | 8 | 21.6 | 8.1 | 18.3 | 7.3 | 23.4 | | | | |
| 1M | 8.1 | 21.6 | 8 | 18.3 | 7.1 | 23.3 | | | | |
| 2M | 8.2 | 21.5 | 8 | 18.1 | 7.2 | 22.7 | | | | |
| 3M | 8 | 21.4 | 7.9 | 18 | 7 | 22.3 | | | | |
| 4M | | | | | | | | | | |
| 01BR01AM0023 Middle | | | | | | | | | | |
| Anchor depth Metres | 7 | | 7 | | 7.5 | | | | | |
| Secchi reading Metres | 4.5 | | 5 | | 4.5 | | | | | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | | | | |
| 0M | 8.2 | 21.7 | 8.6 | 18.8 | 8.3 | 16.5 | | | | |
| 1M | 8 | 21.6 | 8.5 | 18.8 | 7.9 | 16.4 | | | | |
| 2M | 7.8 | 21.5 | 8.3 | 18.8 | 8.1 | 16.1 | | | | |
| 3M | 7.8 | 21.4 | 8.2 | 18.8 | 8.2 | 15.9 | | | | |
| 4M | 7.8 | 21.3 | 8.3 | 18.8 | 8.1 | 15.6 | | | | |
| 5M | 7.8 | 21.1 | 8.2 | 18.8 | 8.1 | 15.6 | | | | |
| 6M | 7.8 | 21 | 8.2 | 18.8 | 7.6 | 15.4 | | | | |
| 7M | | | | | | | | | | |
| 01BR01AM0024 North End | | | | | | | | | | |
| Anchor depth Metres | 6.5 | | 6.5 | | 6.5 | | | | | |
| Secchi reading Metres | 4.5 | | 5 | | 4.5 | | | | | |
| Depth Metres | D/O | Temp | D/O | Temp | D/O | Temp | | | | |
| 0M | 8.2 | 21.5 | 8.4 | 18.9 | 8.3 | 16.9 | | | | |
| 1M | 8.1 | 21.5 | 8.3 | 18.9 | 8.2 | 16.4 | | | | |
| 2M | 8.1 | 21.4 | 8.1 | 19 | 8.1 | 16 | | | | |
| 3M | 8 | 21.4 | 7.9 | 18.9 | 7.7 | 15.7 | | | | |
| 4M | 8 | 21.3 | 8.2 | 18.9 | 7.9 | 15.6 | | | | |
| 5M | 8 | 21.3 | 8.2 | 18.9 | 7.2 | 15.6 | | | | |
| 6M | 8 | 19 | 8.1 | 18.9 | 7.6 | 15.5 | | | | |
| 7M | | | | | | | | | | |