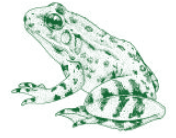


# Raymond Waterways Newsletter

Published by Raymond Waterways Protective Association

"To protect and improve pond and lake water quality and foster watershed stewardship"



Summer 2008

## Invasive Plant Remediation Projects

### Bay View - Tarp Removal



We are proud to report all visible milfoil was removed from Dingley Brook and divers removed 85% of the milfoil at Port Harbor Marine. Page 3.

## Kid's Fishing Derby - August 23



Our first ever Kid's Fishing Derby will be held August 23rd. Fish anywhere then meet at 3pm at the Raymond Veterans Memorial Park for prizes, raffle, and milfoil demonstration. FMI see page 2.

Registration form is provided on the back page of the newsletter.

## Watershed Protection Projects

### Panther - Schramko's



### Stormwater - Plummerville



In 2008 RWPA completed the Stormwater Mitigation Project (pg. 3) and will assist Panther Pond Association with completing the Panther Pond Conservation Project - Phase I. We will begin our second season working on the Raymond Pond Conservation Project. Both conservation projects offer free technical and financial assistance to fix erosion problems. Possible projects include infiltration steps on paths, rubber blade diverters on driveways, culverts and ditching on camp roads, rain gardens, or planting shoreline vegetation. Page 6 & 7

**RWPA Annual Meeting & BBQ - August 14, 2008, 5:30pm @ Camp Timanous**

## Dear Friends of Raymond Waterways

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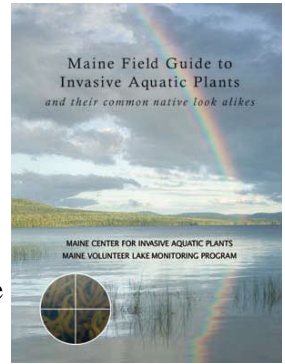
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**Our Annual Meeting...** Our Annual Meeting & BBQ will be Thursday, August 14th, 5:30pm at Camp Timanous on Panther Pond. We will provide the burgers, hot dogs, and soda. Bring salad or dessert to share. Please RSVP so we can order the correct amount of food. Camp Timanous is located on the north end of Panther Pond off Plains Road. Join us by boat or car.

**Starting off with great news...** According to the Milfoil Update 2008 report (LEA), not only were there NO new infestations in the state this past year, but actually one lake (Great East Lake) was removed from the list of infested waterbodies - one rooted plant was discovered and removed in 2006 with no regrowth spotted. This example reiterates the importance of lake plant surveys to spot new infestations before an invasive plant has a chance to spread. So there is hope in fighting the war with milfoil, but we must continue our vigilance and commitment to fighting this and other invasive plants. Right here in Raymond our rangers have prevented two invasives (curly leaved pondweed, and Eurasian milfoil) from being introduced to Sebago Lake and have removed numerous Variable milfoil fragments from boats exiting Sebago Lake.

**New field guide on identifying aquatic plants...** Published by the Volunteer Lake Monitoring Program and the Maine Center for Invasive Aquatic Plants. You can view and order this guide on-line at MCIAP.org. While there take a look at their on-line herbarium.



**Concerns for Crescent ...** A group of landowners on Crescent Lake are beginning an effort to organize a "Crescent Lake Watershed Association". An informational meeting is planned on August 9th at Laurel South (details on page 5). Having local lake groups can significantly increase the work accomplished on each individual lake as it provides RWPA with an organized group of people to work with to serve the specific needs of each lake. The Panther Pond Association is an excellent example of how an organized local group can move lake protection efforts forward using RWPA for technical support. We hope to see a similar group come together on Crescent Lake. Your help is needed in the preservation of beautiful Crescent Lake.

**A special thanks to our donors...** RWPA would like to thank all of our friends who have contributed nearly \$22,000 in 2008. To support our 2008 projects we need to raise \$35,000 in local donations. We appreciate your continued support. RWPA would like to recognize the staff and campers at Kingsley Pines Camp for their donation of \$750 raised through sales of Kingsley Pines water bottles. Thank you! RWPA is a 501(c)3 non-profit. Donations are tax deductible.

Don't forget to mark your calendars for our August 14th Annual Meeting. Until then, we hope you enjoy the newsletter. Enjoy the summer on Raymond's lakes and ponds!

### Kids Fishing Derby - August 23



This year we will hold our first kid's fishing derby to raise awareness and \$ for invasive plant remediation.

**Saturday August 23<sup>rd</sup> - Fish anywhere or fish at the park! Meet at 3pm at the Raymond Park/Veteran's Memorial for prizes, raffle, and milfoil dive demonstration 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> prizes for the largest fish. Bring fish or photo of your catch, with measurements and weight.**

**Registration Fee:** \$5.00 - All proceeds go to benefit RWPA. Form is on the back page. Contact Jared Jordan at [madmadfisherman@yahoo.com](mailto:madmadfisherman@yahoo.com) with questions about the event or if you wish to donate a prize or money. Jared is a 12 year old Raymond student and avid fisherman. He spent last summer with two broken legs, in a wheelchair, fishing the Jordan River and caught more milfoil than fish. He wants to find a way to get rid of it before it "takes over the fish." The derby was his idea in hopes of sharing the fun of fishing while raising money to fight milfoil. We hope you can attend the event!



## Stormwater Mitigation Project Complete - Panther Pond

RWPA applied for and received \$17,700 in Stormwater Compensation Funds from the Maine Department of Environmental Protection for work on Panther Pond. Under Maine's Stormwater Law, if developers can not manage all their stormwater on-site and their project meets certain criteria, they have the option to pay a fee of \$25,000 per pound of phosphorus export. This money is then made available for that specific watershed for a project that provides a permanent reduction in phosphorus.

With these funds RWPA was able to reduce the pollutant load to Panther Pond by 9.93 tons of sediment/year through repair of 1 high and 7 medium impact sites identified in the Panther Pond Watershed Survey. Project work on David Plummer Road and "Plummerville" included the following:

- **ROADS:** Curb town road & install two catch basins with outlet into a settling basin. Regrade & add turnouts on private camp road to shed water away from the lake.
- **DRIVEWAYS:** Discontinue driveway #1, formalize as parking area, redirect stormwater. Install speed bump on driveway #2, direct water into 15' diameter rain garden.
- **LAUNCH:** Install 40'x12' rain garden to catch runoff from boat launch & camp paths. Establish 20'x20' vegetated buffer on bank next to launch.
- **PATHS/OPEN AREA:** Stabilize five camp paths with water diverters and EC mulch. Formalize crushed rock parking area and plant 25'x40' vegetated buffer.

RWPA would like to thank the Town of Raymond, the Allen family, the Panther Pond Association, and the numerous volunteers for their support in completing this project.



To view the full project report visit our website:  
[www.raymondmaine.org/committees/waterways](http://www.raymondmaine.org/committees/waterways)  
 Click on "Panther Stormwater Mitigation Report"

## Lakes Ranger Program, Lake Plant Surveys & Milfoil Remediation

SUMMER 2007 INSPECTIONS		
Lake	# Inspections	Plants Found
Sebago Lake	2149	39 (3*)
Crescent Lake	714	8
Panther Pond	27	1
Thomas Pond	30	0
<b>TOTALS</b>	<b>2920</b>	<b>48 (3*)</b>
*3 invasives found on exiting Sebago boats. All other plants found were non-invasive		
<p style="text-align: center;"><u>Courtesy Boat Inspection Highlights</u></p> <p>2004 Removed invasive Curly leaved pondweed from boat entering Sebago</p> <p>2005 Removed invasive Eurasian milfoil from boat entering Sebago Lake</p> <p>2006 Removed 23 invasive Variable milfoil fragments from boats exiting Sebago</p>		

### Courtesy Boat Inspections

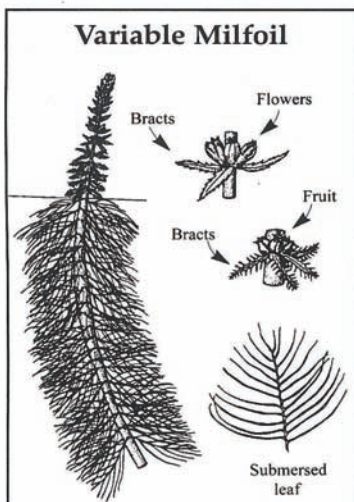
Boat inspections continue to be a vital component to preventing the spread of invasive plants in Raymond. We have listed some highlights in the table. In 2007, a total of 852 hours were spent at four launch sites to inspect 2920 boats. Rangers removed 3 invasive plant fragments (Variable milfoil) from boats exiting Raymond Beach. This season five rangers are on board to educate boaters at the 4 public launch sites this summer. Please remember our rangers are not always on duty, so **be sure to inspect your boat (trailers, live wells, tackle) before and after you float! Remove ANY and ALL plants. One 1/2 inch fragment can root in a lake and begin a new infestation.**

### Lake Plant Surveys

Plant surveys of all Raymond lakes were completed in 2007. **No invasive plants were found in Panther, Crescent, Thomas, Raymond, and Notched Pond.** We surveyed sections of Sebago to document plant location. Early detection is essential to preventing a lake-wide infestation. We plan to organize our lake plant surveys in August on all Raymond's lakes to ensure they are clear of Maine's 11 banned invasive plants.

*(Continued on page 4)*

**Remediation Efforts**



In 2007 we removed 27 yards (~9 dump trucks) of invasive variable milfoil from Dingley Brook, Bay View Estates, Port Harbor and the Jordan River. We removed benthic tarps and cleared ALL visible milfoil from Dingley Brook. We will monitor the brook closely this season and remove any new growth. In 2007 RWPA rangers assisted Bay View Estates volunteers with removing 40 (15'x75') benthic tarps. Areas covered with tarps are clear of invasive plants however this season more work is needed in areas where waves created gaps between tarps as well as at the outlet to the canal where plant colonies are very dense and tarp placement difficult.

RWPA established a management plan with Port Harbor Marine in 2007 to begin a diver assisted plant removal project with an initial cost of \$9,000. We have completed 4 dives since late fall and removed 85% of the plants. We expect re-growth to occur and plan to schedule dives in the late summer. RWPA continues to assist Jordan River Marina Condo Assn (JRMCA) with applying for state grants to manage the infestation in the Jordan River along their shorefront. Lastly, we have surveyed the Jordan River from the Panther Pond dam to the 302 culvert and plan to begin work in several sections this season.

**To Phosphorus or Not to Phosphorus? Dish Soaps & Lawn Care**

That isn't really much of a question when it comes to lakes. A mere 10 pounds of the stuff or about a bucketful, introduced into any one of our smaller lakes would literally destroy them. Consequently, it behooves us to try and keep phosphorus out of our lakes as well as the whole watershed. To that end, we have assembled a list of dishwashing soaps, arranged from least to most phosphorus content - see table to the right. If you are currently using one of the high concentration soap, we urge you to consider trying a lower phosphorus concentration brand. It's for the good of our lakes.

There are other brands of dishwashing soap out there, but this should give you a good sampling.

**Lawn care and phosphorus (PO4)...**

If you use fertilizer, you should be aware that phosphorus, can end up in a nearby stream or lake after a rain storm. Phosphorus turns our lakes green, lowering water quality. It is not only shorefront owners who contribute to the problem, but all properties within a lake watershed (50% of Maine drains to lakes). You can prevent lakes from turning green by replacing your regular lawn fertilizer with a phosphorus free fertilizer. Please be advised that most soils in Maine already contain more than enough phosphorus. In fact, 90% of all Maine lawns tested by the Maine Cooperative Extension did not need phosphorus. If you are contemplating fertilizing your garden or lawn, chances are that additional phosphorus is not necessary. If in doubt, it would be wise to **CONDUCT A SOIL TEST BEFORE YOU ADD FERTILIZER**. Soil test kits are available at most places fertilizers are sold or at the Maine Cooperative Extension Offices (207-581-3591). If you do decide to buy fertilizer, check out the three numbers on the package; the first number indicates the amount of nitrogen, the

Phosphorus Amount in Dish Soaps					
Powder Dishwashing Soaps			Liquid Dishwashing Soaps		
Brand	% Conc.	Per Tbsp	Brand	% Conc.	Per Tbsp
Brokleen	0	0	Ajax	0	0
Ecover	0	0	Dawn Plus	0	0
Glisten	0	0	Dishmate	0	0
Planet	0	0	Method	0	0
7th Generation	0	0	Palmolive	0	0
Electrosol	4.5	0.72	Electrosol	3.7	0.7
Hannaford	5.3	0.6	Hannaford	4.0	0.8
Cascade	6.4	1.0	Sunlight	4.3	0.83
Sun Light	8.6	0.76	Cascade	4.5	1.0

second number is the amount of phosphorus (this should be 0), and the last number is potash. Thus, 6-0-8 would be a lake friendly choice, while 6-7-8 would be a poor choice. Remember, what makes a lawn grow also makes lake plants (and algae) grow.

In an attempt to protect our waters from over-fertilization and too much pollution, the Maine legislature passed a law that discourages the use of lawn fertilizers containing phosphorous. Rather than ban the sale of lawn fertilizer containing phosphorus as some other states have done, Maine has chosen to educate people by requiring stores to post signs explaining when it is appropriate to use fertilizers with phosphorous. More specifically the law states:

**"A person may not sell fertilizer containing phosphorus at a retail store after January 1, 2008, unless the seller posts a Department of Environmental Protection approved sign that indicates the product is not appropriate for use on non-agricultural lawn or turf due to**

(continued page 5)

(Continued from page 4)

potential adverse effects on water quality - - except when:

1. **Soil test results from a laboratory indicate that additional phosphorus is needed** for lawn or turf; or
2. The **fertilizer will be used in establishing a new lawn or turf**, including establishing turf at a sod farm, or for re-seeding or over-seeding existing lawn or turf. "

For the sake of Maine's lakes and streams, the **DEP requests that homeowners use only phosphorus free fertilizer for existing lawns**, unless a soil test indicates a phosphorus deficiency.

For more information on lawn care visit:

<http://www.cumberlandswcd.org/yardscape/factsheets.htm>

## Concerns for Crescent

HAVE YOU SEEN CHANGES IN CRESCENT LAKE? ARE YOU WONDERING WHAT IS CAUSING THESE CHANGES? ARE YOU CONCERNED ABOUT THESE CHANGES? WITH NEIGHBORS MEETING NEIGHBORS, WE COULD ACTIVELY

**"PRESERVE OUR BEAUTIFUL CRESCENT LAKE FOR OUR CHILDREN AND GRANDCHILDREN!"**

*You are invited to share your concerns by attending a gathering of  
Crescent Lake Area neighbors at  
Laurel South Camp  
Laurel Road, Casco  
August 9 @ 9:00 am*

*"together we can make  
a difference!"*

Please let us know if you can attend by calling one of the area neighbors... **The Donut Maker Needs to Know!!**

Bev and Dick White: 627-4179

Diane and Walter Hebold: 221-3401

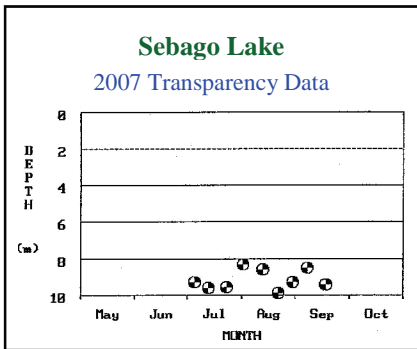
Gwen Akers: 627-4554

Elden Lingwood: 627-7411

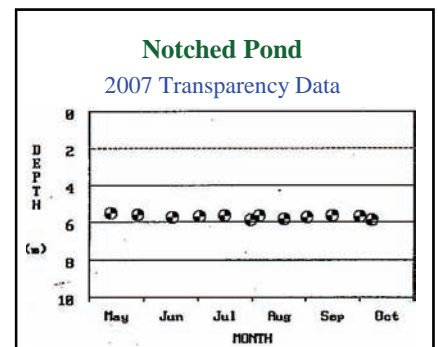
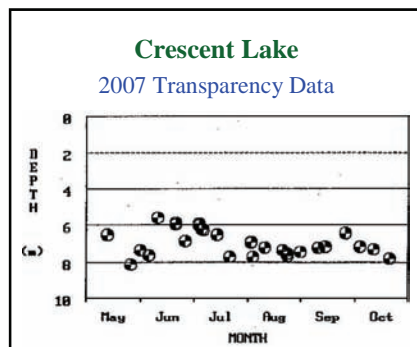
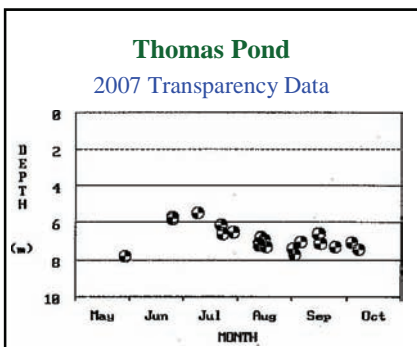
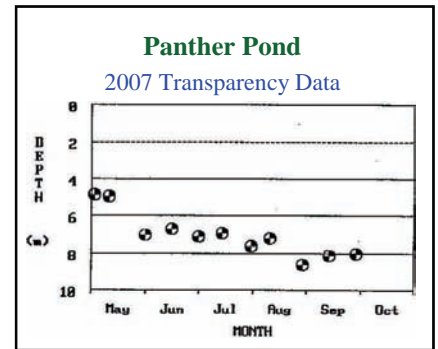
Pam and Ron Akers: 627-4555

**To all Crescent Lake Lovers....."Let's meet and chat"**

## Our Lakes Health - Water Quality Monitoring Results



Remember the lower a secchi disk, the better, as it means the disk could be lowered deeper in the water before going out of sight, hence clearer. No data was recorded in 2007 for Raymond Pond, however we have two new trained monitors and will have data available for 2008. **To see the yearly data and information on your lake visit our website [www.raymondmaine.org/committees/waterways](http://www.raymondmaine.org/committees/waterways) and click on "water quality data" in the menu bar.**





## Raymond Pond Conservation Project Continues in 2008



**BEFORE:** Runoff from Vista Road (gravel) washes down driveway into the lake

**AFTER:** 1.5" crushed rock to stabilize top of driveway & slow runoff, 2 rubber blades divert runoff into vegetation, erosion control mulch stabilize parking area at the bottom of the driveway

Greg Winslow, Vista Road

After a successful first year, the Conservation Project returns with expectations of even greater success. During our first season, we visited and provided technical assistance to 15 properties. Five construction projects were completed. We began the project working with Vista Road Association - word spread quickly among the residents on the road of the great opportunity this grant provides to enhancing your property and protecting the lake. We added better road material, installed ditches and three culverts on the road; and we stabilized two driveways and three paths/open areas. See project photos (above/below).

If you have an eroding camp road or driveway; eroded bare soil path or open area; or a shoreline area that could use more vegetation, you can receive free technical assistance and money.

**How does the grant work?** Project staff will visit any landowner and offer recommendations to manage storm-water runoff and erosion. Recommendations are

voluntary. Properties and roads visited are then eligible for 50% cost sharing grants to fix erosion and runoff problems. Grant funds can be used toward the purchase of native plants for shoreline vegetation or for erosion control materials (runoff diverters for driveways, EC mulch to stabilize paths) or road repair (culverts, crown, ditching).

**Did the recent rains wash out your road or driveway? Could your shoreline be enhanced with plants? Contact us today at [lakes@raymondmaine.org](mailto:lakes@raymondmaine.org) or 671-3329 to schedule a time for us to visit your property.**

Soil is the number one type of pollution affecting Maine's lakes - soil carries the nutrient phosphorus to our lakes, essentially fertilizing the lakes which can decrease water quality, harm fish habitat and lead to algal blooms. If you know you have an erosion problem, contact us today and do your part to protect Raymond Pond. Inexpensive conservation practices are practical, affordable, easy to install, and can make a big difference in water quality.



**BEFORE:** Runoff from road washes down driveway and erodes path to lake.

**AFTER:** Infiltration trench catches runoff from driveway before it reaches path.  
**Path:** Timber waterbars and crushed rock stabilize path. EC mulch and plants stabilize bare soil next to path.

Katherine Ford, Vista Road

## From Phosphorus to Frogs...

Phosphorus and nitrogen from fertilizers not only degrade water quality, but are especially harmful to amphibians that live on or near water. These elements cause the formation of algae, which increases snail populations that host microscopic parasites called trematodes, which infect amphibians and cause malformations. A worldwide study of 6,000 species of amphibians concluded that a third of these species were threatened, and almost half were declining in population. The two most common species of frogs found in Maine are the bullfrog and the pickerel frog (see photos). The bullfrog can grow upwards of 7" and is the

(Continued on page 7)





(Continued from page 6)

largest frog in North America. Their eardrums form a circle behind their eye, and is often larger than the eye. They breed from May-July, and the resulting tadpoles take two years to mature to adulthood. The pickerel frog is ~3" long and has rectangular dark spots. We should also mention the even smaller (1.5"), tan with brown markings Spring Peeper, seldom seen but often heard in springtime. Frogs have moist skin, jump, and live on or near water. We haven't even mentioned toads, which have dry warty skin, hop, and live mostly on land.



## Panther Pond Conservation Project - Highlights and Next Steps

Over the past three years, Panther Pond residents have had the opportunity to participate in the project grant to reduce erosion problems. This project is nearing completion. The final report with many project photos will be on-line in October. The goal of Phase I was to complete 42 projects or half of the 84 sites identified in the Panther Pond Watershed Survey. To date we have completed 39 sites and reduced the lakes pollutant load by 51% (31 tons sediment/year). We have submitted a proposal for Phase II which if approved would begin next spring 2009 and focus on fixing the remaining sites.



River Road Before: Culvert bottom rusted out, eroding unstable in/outlet  
After: Replaced culvert, rip rap in/outlet with rip rap (stone)



Many of these projects would not have been possible without the hard work of the volunteers. Thank you!

Panther Pond Association and RWPA would like to thank the Town of Raymond, landowners and all the volunteers who helped to make this project a success. For more information on Phase I or Phase II contact Noralee at 671-3329 or lakes@raymondmaine.org. For more information on Panther Pond Association events and activities contact PPA at ppa@raymondmaine.org.

### 4th Annual Picnic - Sunday, Aug. 3rd, 1-4 pm @ King's Grant

This year we will hold the picnic at the King's Grant Barn. We will provide hamburgers, hot dogs, lemonade and soft drinks; we will rely on those attending to bring a pot luck salad or dessert and other beverages desired. Join us at the picnic to mix with your Panther Pond Neighbors.

### PPA Annual Meeting - Tues, Aug. 5th 7pm @ Public Safety Building

You are cordially invited to the PPA Annual Meeting at the Raymond Public Safety Building at Main Street and Rt. 302 on Tuesday, August 5th from 7-9 PM. There will be a presentation showcasing completed projects around the lake as well as a discussion of what the next steps might be for PPA and individuals in protecting Panther Pond.

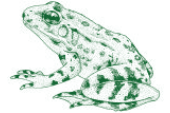


Sloans Cove Road  
Ray & Mary Snell

Before: Eroded & Undefined Path to Lake, Sparsely Vegetated Open Area  
After: Defined Crushed Rock Path, Erosion Control Mulch on Path Edge



## 2008 RWPA Membership Form



Thank you to our members who have already contributed in 2008. If you have not yet contributed please help us reach our 2008 goal of \$35,000. Here is the form to fill out. Thank you!

I am glad to be a member: Again \_\_\_\_\_ For the first time \_\_\_\_\_

My lake/watershed is (please circle one): Crescent Raymond Thomas Panther Sebago Notched Nubble

Enclosed is (please circle) \$2500 \$1000 \$500 \$300 \$150 \$100 \$75 \$50 \$25 Other \_\_\_\_\_

Name \_\_\_\_\_ Phone Number \_\_\_\_\_ E-mail \_\_\_\_\_

Mailing Address \_\_\_\_\_

Raymond Address (if different) \_\_\_\_\_ Raymond Phone \_\_\_\_\_

Next year we would like to see more information on \_\_\_\_\_ in the Newsletter.

RWPA is a 501(C)3 Non-profit. Your donation is tax deductible. Thank you.



Yes, I want to participate in the kid's fishing derby, to help protect Raymond's lakes by removing invasive Milfoil!

Name \_\_\_\_\_ age \_\_\_\_\_

Address \_\_\_\_\_

Phone: \_\_\_\_\_

Signature of parent or guardian: \_\_\_\_\_

Please enclose \$5 check with registration form  
Mail to RWPA, PO Box 1243, Raymond, ME 04071

RWPA and the Town of Raymond are not responsible for any damages or liabilities to anyone or to anyone's personal property.

### Calendar of Lake Events

#### **PPA ANNUAL PICNIC & MEETING**

Picnic - Sunday, August 3, 1-4, King's Grant  
Meeting - August 5, 7-9, Public Safety Building

#### **CONCERNS FOR CRESCENT**

Saturday, August 9, 9am, Laurel South Camp

#### **RWPA ANNUAL MEET & BBQ**

Thursday, August 14th, 5:30  
Camp Timanous, Panther Pond

#### **KID'S FISHING DERBY**

Saturday, August 23 - Fish Anywhere, Meet  
3pm @ Raymond Veterans Memorial Park

### **Raymond Waterways Protective Association**

*To protect and improve pond and  
lake water quality and foster  
watershed stewardship*

RWPA  
PO Box 1243  
Raymond, Maine 04071

Phone: 207-671-3329

Email: lakes@raymondmaine.org

Updates will be posted on the RWPA website:  
[www.raymondmaine.org/committees/waterways/](http://www.raymondmaine.org/committees/waterways/)

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