

## TIMELINE....

How did the recent (2008) awareness/program/control and management of invasive species on Portage Lake start...

### 2006

Portage Lake Watershed Forever plan was approved.

### 2008:

June 2008 – Invasive Species Program presented to Portage Lake Garden Club

July 2008 – **Watershed Volunteers surveyed the entire lake shoreline**  
(Herb Lenon and 43 trained volunteers surveyed entire shoreline)

Sept 23 2008 – **Demonstration Project at Farr Center** – Education program and application methods for phragmites demonstrated  
(PLM treatment demonstration funded by PLGC and Jr. Clio Club - \$500)

Oct 3, 2008 – **AVAS survey of the Lake** by Professional Lake Management  
(PLM AVAS survey funded by PLA and PLGC – \$1,500)  
**Discovered ewm problem in addition to phragmites**

Oct. ? 2008 – **Grand Traverse Bay stakeholders first meeting/Brian Piccolo\***

Oct 23 2008 – Presentation to Watershed of results AVAS survey – EWM found  
**Watershed board appointed Invasive Species Subcommittee**  
**(5 member qualified/experienced committee members)**

Oct/Nov/Dec – Contacted MDNR, MDEQ, 12 Lakes, several Lake Managers and other  
2008 experts and experienced resources **to determine options for chemical and biological treatment and funding.**

Dec 10<sup>th</sup> – Reported study findings and recommendations for funding to the Portage Lake Watershed forever board. – **PLWF approved committee take their recommendations to the Township/village boards.n Power point presentations were done.**

### 2009:

Jan 6<sup>th</sup> – Township board meeting – **voted this committee to be the Invasive Species committee of Onekama Township** and to continue research

Feb 2<sup>nd</sup> – Township meeting – draft ordinance/resolution and SAD proposal to board

Feb 9<sup>th</sup> – Special meeting of Township Board to **consider hiring Lake Manager. Committee developed a 10 point bid document that was sent to 4 Lake Management Co..**

- March 17<sup>th</sup> – Township meeting - approved and **signed a contract for a lake manager with Lakeshore Environmental Inc of Grand Haven.**
- April 17<sup>th</sup> – **PLA volunteers cut the treated phragmites at the Farr center** to prepare for a controlled burn
- April 24<sup>th</sup> – **Burned phragmites** with coordination of the Onekama Township Fire Dept.
- May 1<sup>st</sup> – committee met to review resolutions to take to the Township Board on May 6<sup>th</sup> – sent 3 **resolutions to lawyer for review**
- May - Application information submitted to Brian Piccolo for Portage Lake to be included in phragmites grant\*
- May 6<sup>th</sup> – **Onekama Township passed Resolution #2009 - to address invasive species and to fund the project using Public Act 188 to form a SAD for funding.**
- May/June - **Community forums/newsletters/education programs/development of Special Assessment District (Entire Onekama Township)**
- July 14<sup>th</sup> – **Community Education program on invasive species** (originally scheduled as the 1<sup>st</sup> required public hearing. (Changed because of lawyer's challenge)
- July 27<sup>th</sup> – **First Public Hearing**
- July - **Applicator contracts signed.** Professional Lake Management (EWM), Aquatic Services Inc for phragmites.
- July 2009 – **PORTAGE LAKE IMPROVEMENT MANAGEMENT PLAN STUDY Report 2009 (LSI)**
- August 11<sup>th</sup> – **Second public hearing**
- August 1<sup>st</sup> - **MDEQ permit** application mailed and permit received September 2<sup>nd</sup>.
- August 5<sup>th</sup> – Letters sent to all lakeshore owners by first class mail, return requested
- August 25<sup>th</sup> – **Phragmites Public Hearing to hear objections to treatment** on individual properties. (No one appeared!)
- September 15<sup>th</sup> – **Eurasian water milfoil treated by Professional Lake Management**
- September 25<sup>th</sup> **Phragmites treated by Aquatic Services**
- October 6<sup>th</sup> – Report to Onekama Township Board (each month since December 2008)

FALL - **PORTAGE LAKE IMPROVEMENT MANAGEMENT PLAN STUDY –  
FALL 2009 UPDATE**

October 3<sup>rd</sup> - Fall AVAS survey completed  
October - Follow up survey of treatments

December 1<sup>st</sup> Phragmites Ordinance report filed with USDA according to noxious  
weed  
act #

\*See Public Notices and Lake treatment/monitoring Timelines 2009

**\*Public Notices TIMELINE FOR INVASIVE SPECIES 2009**

July 14<sup>th</sup>, 2009 – Informal meeting

July 15 - August 1<sup>st</sup> – send out bids to applicators

July 15<sup>th</sup>, 16<sup>th</sup>, 17<sup>th</sup>, - prepare and send out **letter of 1<sup>st</sup> public hearing**  
– **publish in newspaper twice before July 27th**

July 17<sup>th</sup> and July 22<sup>nd</sup> - first and second public notices in the paper

July 22<sup>nd</sup> – **Notice posted** in the township that there will be 2 business meetings of the  
board following the July 27<sup>th</sup> public hearing (at least 18 hours before the 27<sup>th</sup> meeting.)

July 27<sup>th</sup> – **First Public Hearing – Resolution of intent to establish a SAD  
under PA #188 to provide for control of Invasive Species**

Following the hearing 2 **Special meetings of township board:**

**#1.** to approve resolution to establish SAD boundaries and direct the supervisor to  
prepare assessment rolls The assessor hand the roll to the clerk and the  
minutes indicate the roll has been filled. Meeting is closed

**#2.** Opens the meeting to set the date of August 11<sup>th</sup> for the second  
Public hearing to pass a resolution. Meeting is closed.

July 29<sup>th</sup>, 30<sup>th</sup> – Send out letters of **notice for 2<sup>nd</sup> public hearing** to approve roll  
(tell people exactly what they will be assessed)  
- **publish in newspaper twice before August 11th**

August 5<sup>th</sup> – **phragmites letters sent to lakefront owners by certified mail, return  
receipt requested of property that will be treated (sent to all lakefront owners).**  
**August 9<sup>th</sup> – Notice that there will be a township business meeting after the  
hearing**

**August 11<sup>th</sup> - 2<sup>nd</sup> public hearing to pass a resolution to implement the roll. (notice posted 18 hours prior to meeting)**

August 11<sup>th</sup> – **Second Public Hearing – assessment roll**

August 11<sup>th</sup> - **Township special business meeting** after 2<sup>nd</sup> public hearing to pass a resolution to implement the roll

August 12<sup>th</sup> - 15<sup>th</sup> – Finalize applicator selection

August 11<sup>th</sup> – Assure application to DEQ is prepared and sent

**August 15<sup>th</sup> – deadline for application for permit to treat from the DEQ – application is prepared by Lakeshore and applicators in order to send appropriate maps, but application is in the Townships name and was signed by David Meister.**

**Aug. 15 – Sept 1<sup>st</sup> - Applicator sends notice of treatment to the landowners of property being treated for phragmites and all owners within 100 feet? (check date to be sent and the distance) MUST HAVE PERMIT PRIOR TO DOING THIS??**

August 25<sup>th</sup> - **phragmites public hearing to hear objections from landowners to treatment of phragmites on their land.**

### **Dates for Lake treatment and water monitoring 2009:**

May 2009 - AVAS/GPS survey of Lake

Initial water monitoring of the lake

July 25<sup>th</sup> - Water quality monitoring - including 2 deep basins, tributaries

August 29<sup>th</sup> - Water quality monitoring - including 2 deep basins, tributaries

September 15<sup>th</sup> - EWM treatment (notices posted on each property 24 hours prior)

September 24-25 - Phragmites treatment (notices posted on each property 24 hrs prior)

October 3<sup>rd</sup> - AVAS survey

### **2010 Lake Treatment and Monitoring:UB**

January 5<sup>th</sup> – Township report

Jan 13<sup>th</sup> – **PORTAGE LAKE IMPROVEMENT MANAGEMENT STUDY REPORT 2009**

(3 copies of **final report** received. Also see list of corrections to report)

January 26<sup>th</sup> – Watershed meeting – invasive species report

February 2<sup>nd</sup> – Township board report – update on 2009

February 12 – Committee meeting with Jennifer Jones

February 22<sup>nd</sup> – Township signed contracts for LEI, ASI, & PLM

February 23<sup>rd</sup> - Check to PLM for DEQ Permit (\$1,500)

March 2<sup>nd</sup> – Township board report

March - Draft newsletter received from Jennifer

March 16<sup>th</sup> – Report from Cornell on phragmites sample

March 17<sup>th</sup> – Brian Piccolo call – Meeting in TC on March 25<sup>th</sup>

March 23<sup>rd</sup> – Watershed meeting (report)

March 25 – Phragmites grant meeting

March 26<sup>th</sup> – Sampling of storm drains

April 6<sup>th</sup> – Township Board Report

April 22<sup>nd</sup> – Permit received from DEQ

April 23<sup>rd</sup> – Newsletters received from Lakeshore Environmental Inc.

April 28<sup>th</sup> – Website updated

May 4<sup>th</sup> – Township Board report