



**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

December 18, 2009

FERC Project #1864

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Bond Falls Hydroelectric Project - 2009 Eurasian Water Milfoil and Purple Loosestrife Survey Results

As per the FERC Order Modifying and Approving Nuisance Plant Control Plan for the Bond Falls Hydroelectric Project issued February 24, 2005, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian water milfoil (EWM) and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 17<sup>th</sup> and 18<sup>th</sup>, 2009 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

Eight colonies of purple loosestrife were identified as being located within the Bergland Development. One colony of 1-5 plants, three colonies of 6-50 plants and four colonies of 50+ plants were observed.

In consultation with the Bond Falls Implementation Team (BFIT), UPPCO released approximately 500 *Galerucella* beetles (beetles) on the south end of the Bergland Development on July 6<sup>th</sup>, 2009. The beetles were in addition to the 200 beetles released in 2008. The beetles were between the larval stage and emerging adult stage when released. This was the second year of the beetle release activities for the control of purple loosestrife.

Beetle activity was not observed on the purple loosestrife plants sampled. The reason for beetle activity not being observed is unknown; however it could be due to the size of the purple loosestrife colony. The colony is large and it may be that the beetles are only established on a few plants and these plants were not identified during the survey. Other possibilities could be that the beetles are not able to withstand the colder temperatures.

It is in UPPCO's opinion that the purple loosestrife colony is large and the beetles were released at low population numbers and need more time to establish. UPPCO released approximately 200 beetles in the larval stage at the Au Train Hydroelectric Project (FERC Project #10856) in late June. The AuTrain Project is located in a region with similar climate to the Bergland Development and beetle feeding was observed on a colony during the purple loosestrife surveys completed in August.

UPPCO is in support of an additional release of beetles in 2010. UPPCO will however purpose to release a larger population of beetles in 2010. UPPCO is anticipating releasing beetles that have been first established and raised on potted plants. UPPCO will consult with BFIT prior to any release activities. Appendix A includes the result of the 2009 purple loosestrife survey conducted at the Bergland Development, along with a purple loosestrife survey comparison of years 2008 and 2009.

EWM surveys were also conducted on August 17<sup>th</sup> and 18<sup>th</sup>, 2009 for the Bond Falls Hydroelectric Project. A total of ten sample locations were selected throughout the Bond Falls Hydroelectric Project. The surveys did not indicate the presence of EWM at the Bond Falls Hydroelectric Project. Results from the EWM surveys are attached as Appendix B.

Ms. Kimberly D. Bose, Secretary  
December 18, 2009  
Page 2 of 2

The Cisco Chain Riparian Owners Association (CCROA) has conducted EWM and purple loosestrife surveys on the Cisco Chain of Lakes. No purple loosestrife was identified within the Cisco Chain. EWM was identified at Clear Lake located on the north end of the Cisco Chain. The EWM encompassed approximately 5 acres and spread throughout the central and south central sections of the Lake. The area was treated using an approved aquatic herbicide in April with a follow up treatment conducted in September. The area will be surveyed again in 2010 to determine the success of the treatment.

In 2009, Curly Leaf Pondweed (CLP) was also identified at the Cisco Chain. Approximately 4 acres of CLP was located on the west end of Lindsey Lake. The CCROA treated the area using an approved aquatic herbicide in June. The area will be surveyed again in 2010 to determine the success of the treatment. More information concerning the surveys completed and treatment is provided in the 2009 CCROA Invasive Species Survey and Control Report included in Appendix C.

Documentation of Consultation with the resource agencies is provided in Appendix D.

**Comprehensive Five Year EWM Monitoring Report**

As per the FERC Order Modifying and Approving Nuisance Plant Control Plan for the Bond Falls Hydroelectric Project issued February 24, 2005, UPPCO is to provide a comprehensive five-year EWM Monitoring Report. The five-year EWM Monitoring Report is being filed as a separate report.

Should you have any questions relative to this material, please do not hesitate to contact Jamie Nuthals at (920) 433-1460.

Sincerely,



Terry P. Jensky  
Vice President - Energy Supply Operations  
for Wisconsin Public Service Corporation  
Telephone: (920) 433-2900

syx

Enc.

cc:	Ms. Carlisa Linton, FERC - D.C.	Mr. Gil Snyder, WPS - D2
	Ms. Joan Johaneck, WPS - D2	Mr. Shawn Puzen, IBS - D2
	Mr. Howard Giesler, WPS - PUL	Mr. Jim Melchiori, UPPCO - UVD

**APPENDIX A**

**2009 PURPLE LOOSESTRIFE SURVEY RESULTS**

## **APPENDIX B**

### **2009 EURASIAN WATERMILFOIL SURVEY RESULTS**

## **APPENDIX C**

### **2009 CCROA Invasive Species Survey and Control Report**

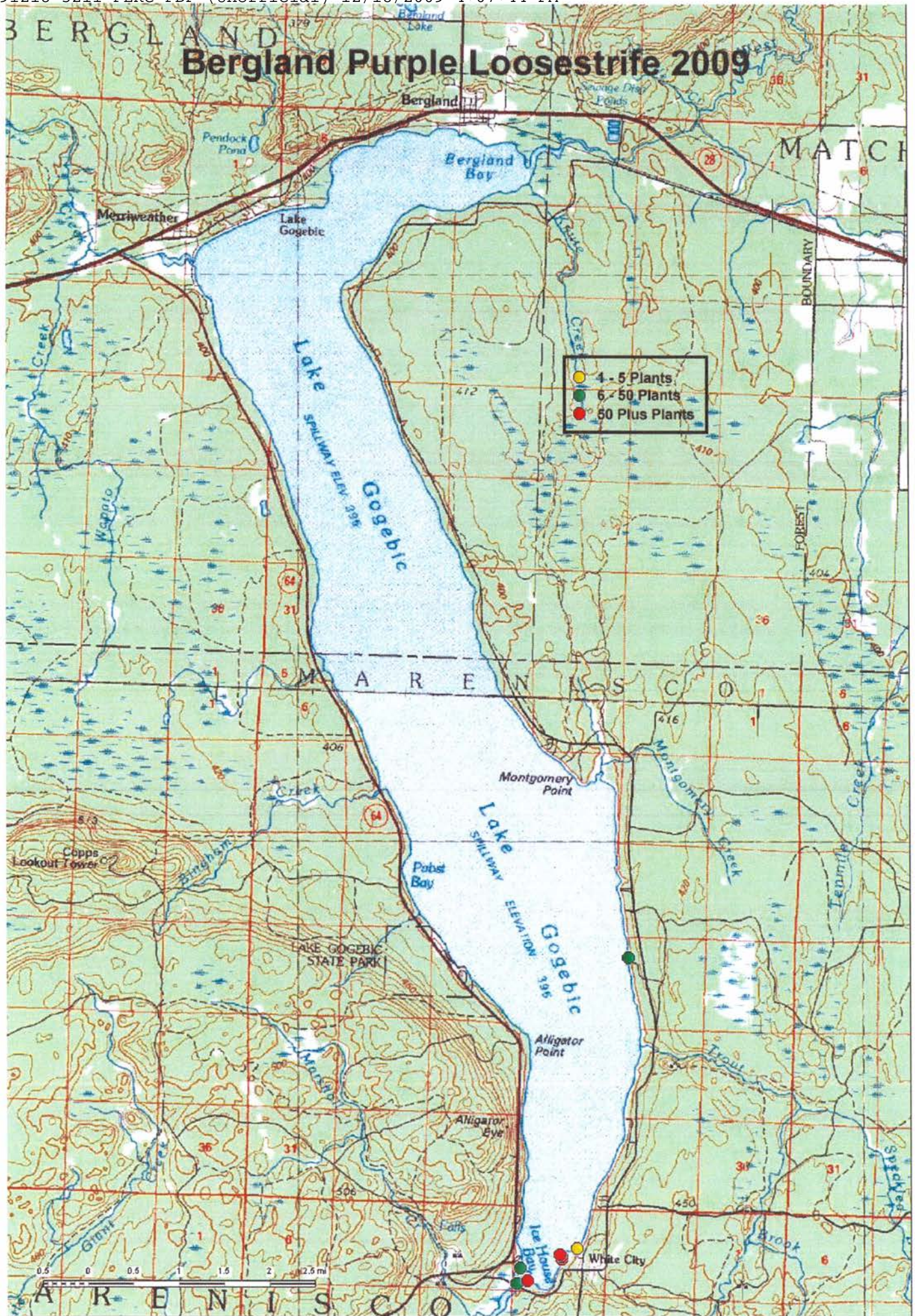
**APPENDIX D**  
**2009 DOUCMENTATION OF CONSULTATION**

**Bergland Development Purple Loosestrife Survey 2009**

<b><u>Size</u></b>	<b><u>Locations identified in 2008</u></b>	<b><u>Locations identified in 2009</u></b>	<b><u>Control Method</u></b>
1 to 5	2	1	beetle release
6 to 50	2	3	
50+	2	4	
<b>Total</b>			

Purple Loosestrife Survey - 2009					
Bergland					
Number	Latitude		Longitude		Amount
1	46°	24.55700	89°	33.08800	6-50 Plants
2	46°	24.40900	89°	33.13300	6-50 Plants
3	46°	24.44100	89°	32.98400	50+ Plants
4	46°	24.65300	89°	32.51000	50+ Plants
5	46°	24.68200	89°	32.51400	50+ Plants
6	46°	24.69600	89°	32.54400	50+ Plants
7	46°	24.76300	89°	32.31200	1-5 Plants
8	46°	27.55000	89°	31.70800	6-50 Plants







<b>Eurasian Milfoil Survey – August 17, 2009</b>
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<b>Bergland/Gogebic</b>
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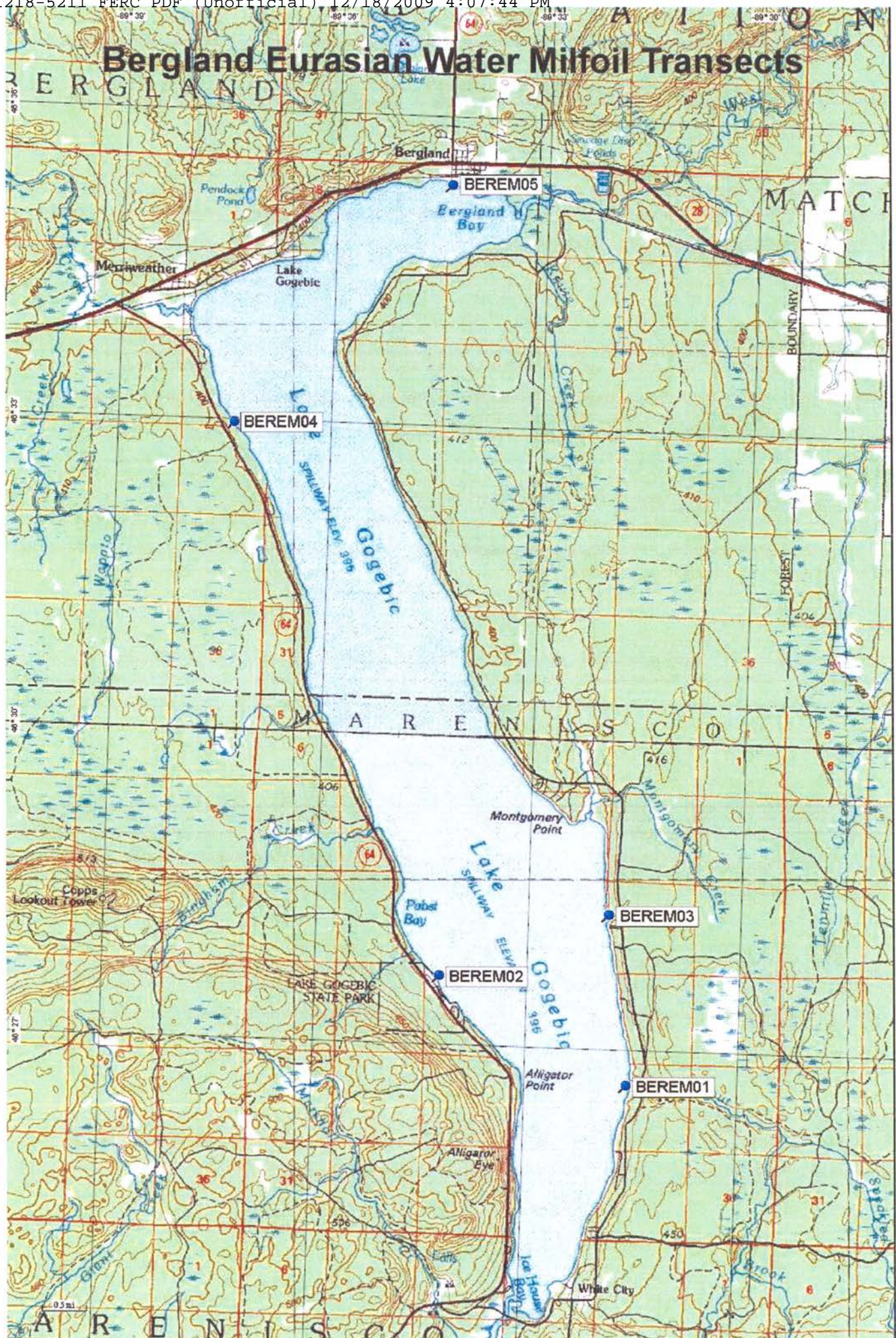
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin	Perimeter
1A	0	0	NA	NA	N 46 26.642	
1B	0	0	NA	NA	W 89 31.587	
1C	0	0	NA	NA		
2A	0	0	NA	NA	N 46 27.653	
2B	0	0	NA	NA	W 89 34.259	
2C	0	0	0	NA		
3A	0	0	NA	NA	N 46 28.294	
3B	0	0	0	NA	W 89 31.883	
3C	0	0	0	NA		
4A	0	0	NA	NA	N 46 32.964	
4B	0	0	NA	NA	W 89 37.401	
4C	0	0	NA	NA		
5A	0	0	NA	NA	N 46 35.338	
5B	0	0	NA	NA	W 89 34.391	
5C	0	0	NA	NA		

N/A: Not Applicable

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

Note: All transects are 40 feet in length and proceed away from shore in a direction perpendicular to the shoreline







<b>Eurasian Milfoil Survey – August 18, 2009</b>
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<b>Bond Falls Hydroelectric Project</b>
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Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin	Perimeter
1A*	0	0	NA	NA	N 46 22.917	
1B	0	0	NA	NA	W 89 04.757	
1C	0	0	NA	NA		
2A**	0	0	NA	NA	N 46 23.553	
2B	0	0	NA	NA	W 89 07.503	
2C	0	0	NA	NA		
3A***	0	0	NA	NA	N 46 23.827	
3B	0	0	NA	NA	W 89 07.631	
3C	0	0	NA	NA		

N/A: Not Applicable

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species,  
4-Dominant Species Present, 5-Total Infestation

Note: All transects are 40 feet in length and proceed away from shore in a direction perpendicular to the shoreline

\* Transect 1: 210 feet short of shoreline waypoint (GPS) due to low water level (16 ft below full).

\*\* Transect 2: 530 feet short of shoreline waypoint (GPS) due to low water level (16 ft below full).

\*\*\* Transect 3: 95 feet short of shoreline waypoint (GPS) due to low water level (16 ft below full).







<b>Eurasian Milfoil Survey – August 18, 2009</b>
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<b>Victoria Falls</b>
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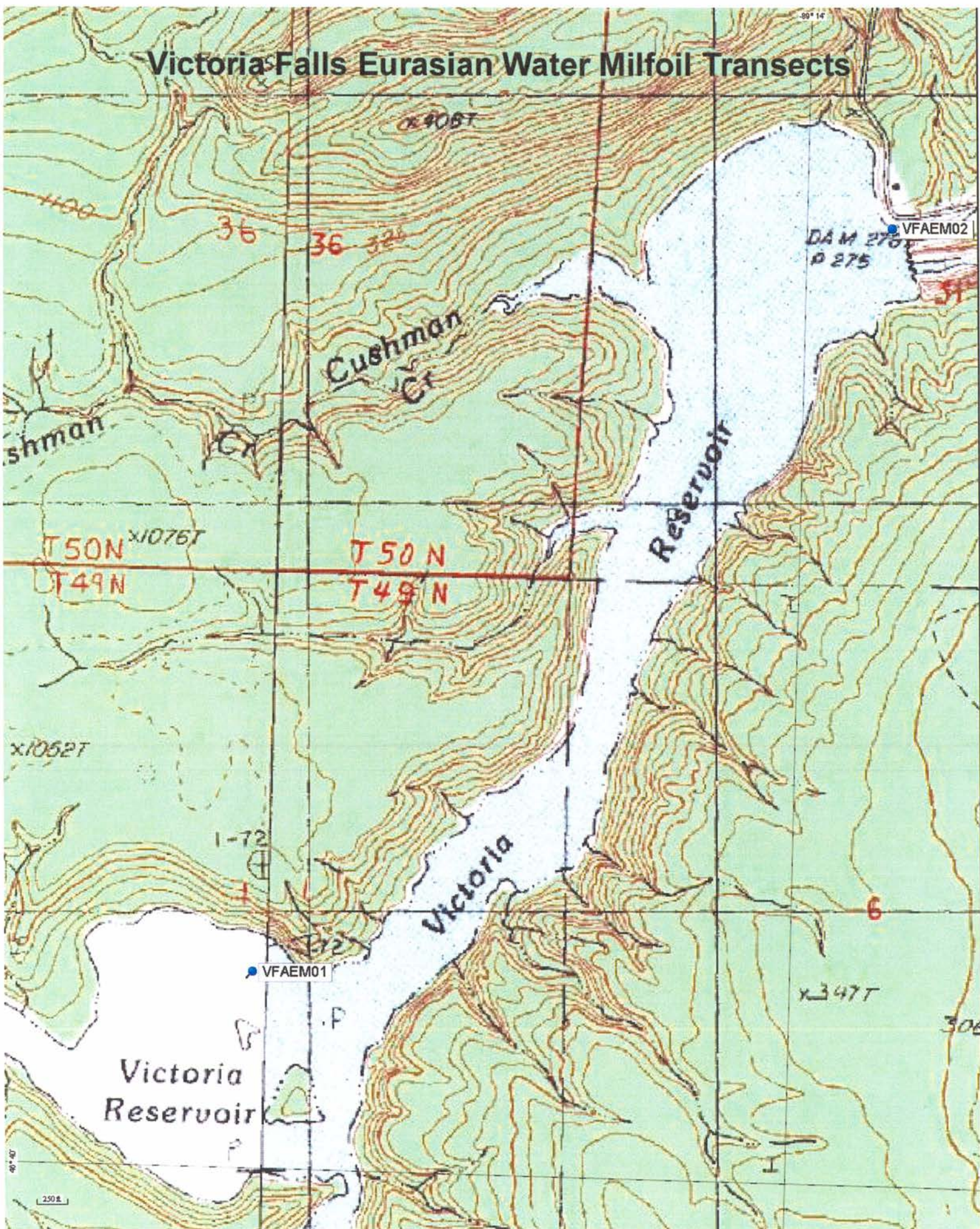
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin	Perimeter
1A	0	0	NA	NA	N 46 40.259	
1B	0	0	NA	NA	W 89 15.038	
1C	0	0	NA	NA		
2A	0	0	NA	NA	N 46 41.266	
2B	0	0	0	NA	W 89 13.837	
2C	0	0	0	NA		

N/A: Not Applicable

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species,  
4-Dominant Species Present, 5-Total Infestation

Note: All transects are 40 feet in length and proceed away from shore in a direction perpendicular to the shoreline







**2009  
CCROA**

Report to Bonds Falls

Mitigation Team



**CISCO CHAIN RIPARIAN OWNERS ASSOCIATION**  
**Box 687**  
**Watersmeet MI 49969**

October 15, 2009

Mr. Norman Nass  
District Ranger  
U S Dept. of Agriculture Forest Service  
Ottawa National Forrest  
Watersmeet Ranger District  
E24036 Old US HWY 2 East  
Watersmeet, MI 49969

Dear Norm,

This is the 2009 Edition of the Cisco Chain Riparian Owners Association report on Invasive Species monitoring. The format of this report will follow the 2008 report. 2009 was not a typical year for our AIS efforts on the Cisco Chain. During the course of the summer we had one member come down with swine flu and another with "Blasto" infection. On the positive side, Wes Kiley and I initiated talks with the heads of Environmental studies at Northland College in an effort to develop a program where students would have an opportunity to use the Cisco Chain as a living laboratory for AIS research and study. The College would supply the students and the monitoring, in conjunction with our Lake reps and volunteers and we would supply boats housing, if necessary, and knowledge of the local area. The preliminary introductory talks seem to have been successful.

What **was** typical was the treatment of Eurasian Water Milfoil on Clearwater Lake. At the appropriate time (water temperature) Dave Anderson and his crew treated all the areas of EWM on Clearwater. There was thought to a second treatment in the fall and that took place in early September. There was also a spring treatment on Lindsley Lake for Curley Leaf Pondweed, lead by Bob Langjahr of Aquatic Biologists. Also monitoring continued for all the lakes on the chain. My concerns going forward are total coverage and the use of the latest technology. Volunteers are increasingly busy with their own

activities and thus some of the lakes where we don't have residences i.e. Africa, Record, and to some degree, Little Africa, might not have been covered as well as we would expect. This brings me to the next possible solution to this problem; contracting with a professional such as Dave Anderson to supplement monitoring of our Lake Reps. We are still waiting for a quote from Dave. In past years Barb Gajewski was used to assist but she is no longer available due to her returning to school full time. As outlined, be assured The CCROA Board is continuing to exploit all avenues to satisfy the requirements of the BFM and their obligations.

If you have any questions please call me. 1-906-358-4460 or e-mail me at kullyr@gmail.com

Sincerely,

Kully Rohlen  
President Cisco Chain Riparian Owners Association-2-

Cc: Jamie Nuthals  
Environmental Consultant  
Wisconsin Public Service Corporation  
700 N. Adams Street  
P.O. Box 19002  
Green Bay, WI 54307-9002

Cc: Dick Mehlhop Treasurer CCROA; E 19774 Thousand Island Lake Road, Watersmeet

Rick Brashler Vice President CCROA; N3457 White Birch Road, Watersmeet

Cc: Judy Challed Secretary CCROA; E19476 Fish Hawk Road, Watersmeet

Attachments:

1. 2009 CCROA Invasive Nuisance Species Monitoring Report
2. 2009 Expenditures for Treatment of Invasive Nuisances
3. 2009 Costs Dedicated to Cisco Chain Monitoring
4. 2010 Estimated Treatment Budget

## **Addendum #1**

### **CCROA Invasive Nuisance Species Monitoring Report**

This report is again being prepared in compliance with the procedure outlined in the Bond Falls Mitigation and Enhancement Fund Compensation Procedure for The Cisco Chain Riparian Owners Association Nuisance Plant Survey and Control Protocol, as requested by the Upper Peninsula Power Company in accordance with the Federal Energy Regulatory Commission order modifying and approving the Nuisance Plant Control Plan pursuant to article 411, Project Number 1864-024.

Lakes monitoring was conducted by the officers of the CCROA and the individual lake reps for the Cisco Chain with the help of lake residents. All volunteers have had some training in invasive species identification. Some of the longer serving board members are better trained than our new board members. Monitoring was performed from early June through September. The hours committed by Cisco Chain volunteers totaled **140.5**. If a \$32.00 per hour value (including time, boat rental, gas, and travel see 2008 report for complete details) is placed on this number it would constitute \$4,496.00 an expenditure in volunteer costs. All but one lake on the Cisco Chain was monitored to CCROA standards. That lake will have a lake rep next year and therefore will be monitored like the rest of the chain.

The area of inspection covered most of the 275 miles of shoreline with special emphasis on the shallow waters and areas near six boat landings. These shoreline areas were monitored simultaneously for purple loosestrife. No purple loosestrife was observed on any of the

-2-

Cisco Chain shoreline. However, Ian Shacklesford was contacted to treat an infestation of Japanese Barberry on Thousand Island Lake. The CCROA's concentration was on Aquatic Invasive Species.

In 2009 number of weed samples were collected and given to CCROA officers for further checking with several samples being sent to the Forestry Service office for additional consultation. Again Eurasian Water Milfoil was found on Clearwater Lake. Further inspection by Natural Resources Associates personnel and Barb Gajewski revealed five acres of Eurasian Water Milfoil was identified in Clearwater Lake. These weeds were treated on April 3, 2009. Natural Resources Associates used all the herbicide allowed by our permit but there were areas that remained untreated. There was an additional treatment contemplated for the fall of 2009 for untreated weeds that took place 9/2/09. The Michigan Department of Environmental Quality, Water Bureau had permitted the CCROA to treat this additional area this year. This second treatment is reflected in the 2009 expenditure report for 2009.

The total cost of treatment for Clearwater Lake including the license and surveys cost **\$ 8,777.05**. The treatment for Lindsley Lake was **\$5,484.50**.

## Addendum #2

### 2009 Expenditures for Treatment of Invasive Nuisances

Clearwater Lake	<b>\$8,777.05</b>
<u>Permits:</u> 2/25/09 State of Michigan	\$400.00
<u>Chemicals:</u> Natural Resource Associates	
# 0320097 4/03/09 Navigate 1000 lbs.	\$4,647.00
#082509A 9/2/09 Navigate 750 lbs.	\$2,590.05
<u>Treatment:</u>	
4/3/09 Natural Resource Associates	
Inv. # 032009 deposit	\$500.00
Inv. #032009A Balance for 5/24/09	\$260.00
Inv. #082509A 4 Hours treatment	\$380.00
 Lindsley Lake	 <b>\$5,484.50</b>
<u>Permit:</u> 2/25/09 State of Michigan	\$400.00
<u>Chemicals:</u> 7/11/09 Aquatic Biologists	
Cygnet Engineering inv. #252034; 6/24/09	
41 gal. Aquathol K	\$2,646.90
<u>Treatment:</u> 5/27/08 Aquatic Biologists	
Inv. #252035; 6/15/09 Treatment	\$1,200.00
Total	<b>\$14,261.55</b>
 From Addendum #3 costs	 <b><u>\$4,496.00</u></b>
 <u>Combined Grand Total</u>	 <b>\$18,757.55</b>

**CCROA 2009 Lake Treatment Expenditures**  
1/1/2009 through 10/6/2009 (Cash Basis)

Date Paid	Payee	Description	Amount
<b>Clearwater Lake Milfoil</b>			
Permits			
2/25/2009	State Of Michigan	Clearwater Lake Permit	400.00
<b>Chemicals</b>			
4/3/2009	Natural Resource Associates	Inv. # 032009; 30-50 lb. Bags Navigate @ \$154.90	4,647.00
9/2/2009	Natural Resource Associates	Inv. # 082509A; 15-50 lb. Bags Navigate @ \$172.67	2,590.05
<b>Treatment</b>			
4/3/2009	Natural Resource Associates	Inv. # 032009; Deposit for Clearwater Lake Treatment	500.00
7/15/2009	Natural Resource Associates	Inv. # 032009A; Balance for 6/24/09 Treatment	260.00
9/2/2009	Natural Resource Associates	Inv. # 082509A; 4 Hours @ \$95 for 7/28/09 Treatment	380.00
<b>Clearwater Lake Milfoil Total</b>			<b>8,777.05</b>
<b>Lindsley Pondweed</b>			
Permits			
2/25/2009	State Of Michigan	Lindsley Lake Permit	400.00
<b>Chemicals</b>			
7/11/2009	Aquatic Biologists, Inc. / Cygnet Enterprise	Inv. #252034; 6/15/09-41 Gal. Aquathol K	3,664.50
<b>Treatment</b>			
7/11/2009	Aquatic Biologists, Inc.	Inv. #252035; 6/15/09 Treatment	1,420.00
<b>Lindsley Pondweed Total</b>			<b>5,484.50</b>

**HEADWATERS STATE BANK**

Credits 0 Debits 2

Image Statement for MARCH 2009 Acct# 84401412

#0000000000  
03/04/2009  
L317255101

This is a LEGAL COPY of  
your check. You can use it  
the same way you would  
use the original check.

03/04/2009

001511\*

40091510428\*

0=1412\*

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03/04/2009  
L317255101

This is a LEGAL COPY of  
your check. You can use it  
the same way you would  
use the original check.

03/04/2009

001511\*

40091510428\*

0=1412\*

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## NATURAL RESOURCE ASSOCIATES

610 APACHE DRIVE WAKEFIELD, MICHIGAN 49968  
FIRESTEEL@CHARTER.NET  
906-364-3662

*Clearwater*

**INVOICE # 032009**

**FOR:** Don Hall

**PERIOD:** Spring Treatment 2009

**SERVICES:** Herbicide Order (10 acre Treatment)

**FEES:**

1500 lbs. "Navigate" (\$154.90/50lb/bag)	\$ 4,647.00
Deposit <u>on Treatment</u>	<u>\$ 500.00</u>

**TOTAL AMOUNT DUE:** \$ 5,147.00

*This is enough for 10 acres -  
what we don't use we can  
hold for additional Treatment  
or return for credit.*

*Paid 4/3/09  
Money Market Ch. # 1002  
RM*

Checks should be made payable to "Natural Resource Associates".



*Aquatic  
Biologists, inc.*

N4828 Highway 45 S., Fond du Lac, WI 54937  
(920) 921-6827 (800) 442-6648  
Fax: (920) 921-1690

Specialists in Lake & Pond Management, Services, & Supplies

# Invoice

Date	Invoice #
6/15/2009	252035

Bill To
c/o Don Hall Cisco Chain Riparian Owners Assn. N4062 Cisco Lake Road Watersmeet, MI 49969

Ship To
Lndsley Lake

P.O. Number	Terms	Due Date	Rep	Ship	Via
	Net 30 1 1/2% Month	7/15/2009	BL	6/15/2009	Employee
Quantity	Description	Price Each	UM	Amount	
1	Application/Mileage/Travel/Posting/Survey Treatment Too Late  <i>Water Temp above 60° Pd. 7/11/09 ck. #1520 RMM</i>  <i>OK [Signature]</i>	1,420.00		1,420.00	
Thank you for your business.		Total			\$1,420.00

# Aquatic Biologists, inc.

N4828 Highway 45 S., Fond du Lac, WI 54937  
(920) 921-6827 (800) 442-6648  
Fax: (920) 921-1690

Specialists in Lake & Pond Management, Services, & Supplies

## Invoice

Date	Invoice #
6/15/2009	252034

Bill To
c/o Don Hall Cisco Chain Riparian Owners Assn. N4062 Cisco Lake Road Watersmeet, MI 49969

Ship To
Lindsley Lake

P.O. Number	Terms	Due Date	Rep	Ship	Via
	Net 30 1 1/2% Month	7/15/2009	BL	6/15/2009	Employee
Quantity	Description	Price Each	UM	Amount	
35	Aquathol K	86.00	GL	3,010.00	
6	Aquathol K	80.00	GL	480.00	
1	MAMA Surcharge	174.50		174.50	
<div>Pd. 7/11/09 ck # 1521 emm</div> <div>ok 10A</div>					
Thank you for your business.			Total		\$3,664.50

## NATURAL RESOURCE ASSOCIATES

610 APACHE DRIVE WAKEFIELD, MICHIGAN 49968  
FIRESTEEL@CHARTER.NET  
906-364-3662

INVOICE # 063009A

FOR: Don Hall / Clearwater Lake

PERIOD: 6/24/09

SERVICES: Herbicide Application

FEES: 8.0 hrs. @ \$95/hr. \$ 760.00  
LESS Deposit \$ (500.00)

TOTAL AMOUNT DUE: \$ 260.00

1500 lbs. Nargware  
Applied & pre-paid

Thank you

Don.

As per our conversation we will order 15  
more 50lb. bags and treat clearwater after the  
holidays. We will call upon treatment and  
bill afterwards. Thanks again!

Checks should be made payable to "Natural Resource Associates".

Dave

## NATURAL RESOURCE ASSOCIATES

610 APACHE DRIVE WAKEFIELD, MICHIGAN 49968  
FIRESTEEL@CHARTER.NET  
906-364-3662

**INVOICE # 082509A**

**FOR:** Don Hall

**PERIOD:** 7/28/09

**SERVICES:** Herbicide Application - 5.0 Acres - Clearwater Lake

**FEES:** 4.0 hrs. @ \$95/hr. \$ 380.00  
15 - 50lb. Bags "Navigate" @\$172.67 \$ 2,590.05

**TOTAL AMOUNT DUE:** \$ 2,970.05

*pd. 9/2/09  
ck # 1534  
Rump*

Checks should be made payable to "Natural Resource Associates".



Michigan Department of Environmental Quality  
Water Bureau

COPY  
ORIGINAL WAS SENT  
TO MDEQ

08/2009

DEA

## TREATMENT REPORT FOR CHEMICAL TREATMENT OF NUISANCE AQUATIC PLANT AND/OR ALGAE GROWTH

Pursuant to Part 33, Aquatic Nuisance Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Failure to submit this report may result in ineligibility to obtain future permits and/or administrative penalties as allowed by the statute.

### Instructions

1. Complete the Permittee Information section to the right.
2. In Section A, estimate the degree of success of the treatment(s). If you did not treat, check the "did not treat" box and proceed to Section D.
3. Complete Sections B through D and submit completed report postmarked **no later than November 30**, even if no treatment was undertaken. Submit to the following address:

AQUATIC NUISANCE CONTROL AND REMEDIAL ACTION UNIT  
WATER BUREAU  
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
P.O. BOX 30273  
LANSING, MI 48909-7773

Permittee Information		
Permit or Certificate of Coverage Number: <b>09-98-0977-0</b>		
Name: <b>CISCO CHAIN RIPARIAN OWNERS</b>		
Address: <b>N 4062 CISCO LK. RD</b>		
City: <b>WATERS MEET</b>	State: <b>MI</b>	Zip: <b>49969</b>
Body of Water Treated: <b>CLEARWATER LAKE</b>		County: <b>GOGEAIE</b>

### SECTION A - TREATMENT SUCCESS

Degree of Success for Total Treatment: ☒ Good (70 - 100%) ☐ Fair (50 - 69%) ☐ Poor (less than 50%) ☐ Ineffective (0%) ☐ Did not treat (skip to section D)

### SECTION B - TREATMENT INFORMATION

TREATMENT DATE(S)	CHEMICAL USED	RATE OF APPLICATION (example: 100 lbs/acre, 2.6 lbs/acre foot)	TOTAL AMOUNT (UNITS) (example: 4 gals, 10 lbs)	FOR CONTROL OF (algae or plant names)
6/24/09	NAVIGATE 2,4-D	150 lbs/AC	1500 lbs	MILFOIL
7/28/09	NAVIGATE 2,4-D	150 lbs/AC	750 lbs	MILFOIL

### SECTION C - FISH AND WILDLIFE DAMAGE

List the kinds, numbers and/or pounds of any fish or aquatic wildlife killed by the chemical treatment. If none, so state.

**NONE**

### SECTION D - CERTIFICATION AND SIGNATURE

I certify that the information provided is, to the best of my knowledge, correct.

Submitter's Signature

**D.C. ANDERSON**  
Submitter's Name (print)

**8/25/09**  
Date

### Addendum #3

#### 2009 Lake Monitoring Hours

LAKE	REP	HOURS	COMMENTS
Lindsley & Morley	Tom Krautkramer	18	Lots of weeds no invasives
Thousand Island South	Rick Brassler	9.5	No AIS found
Big Lake South	Karen Hartman	4	Lots of weeds no invasives
Clearwater, Africa, Little Africa	Helen Hayhurst	10	Milfoil was found and expected (Clearwater)
Mamie	Dick and Gloria Anderson	25	One area of Curly Leaf Pond weed
East Bay	Kully Rohlen, Denise Flautleroy		will Monitor closely in 2010
	Wes Kiley		
Indian Lake	Gloria and Dick Anderson	9	One sample taken of CLPW will check in 2010
Cisco Lake	Don Hall	8.5	Northern Milfoil only
Lindsley & Morley	Don Hall & several others	12	Treatment for CLPW
Clearwater	Don Hall	7	Treatment for EWM
	Frank Checkeck/Don Hall	15	Treatment for EWM
Fishhawk	Dean Challed	18.5	no CLPW founf on Fishhawk
			Helped with Lindlsey Treatment
Poor Lake	Carolyn and Matt Maloney w/ Kully Rohle	4	No invasives
	Total for 2009 Hours	<u>140.5</u>	

\*\*\* Note all hours utilized pontoon boats or inboard motor boarts

## AQUATIC INVASIVE SPECIES SURVEY

CCROA

LAKE Big, Lumsley &amp; Marley

NAME

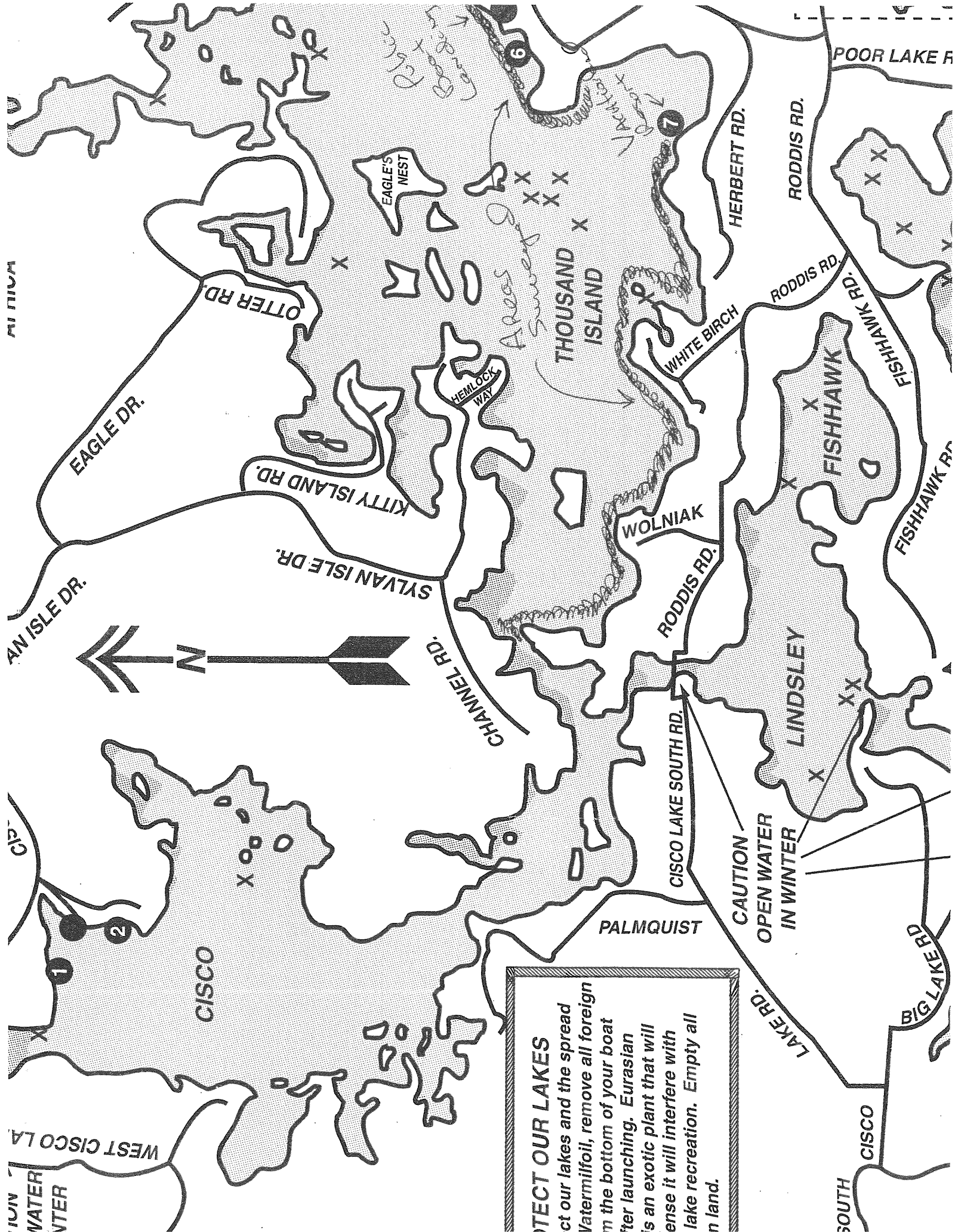
Tom Fauthremer

DATE	TIME		LAKE AREA SURVEYED	FINDINGS AND NOTES
	Start	Finish Spent		
2009				
June 23	10 AM	12 AM	2 hr	Michigan Bay - Big Lake
June 26	6 PM	8 PM	2 hr	Big Lake - S. end.
June 27	5 PM	7 PM	2 hr	Palmer Bay - Big Lake
July 2.	9 AM	12 PM	3 hr	Ironhawk Lake
July 2	"	"	"	Ludley Lake
July 3	2 PM	4 PM	2 hr	Marley Lake
July 9	2:30 PM	4:00 PM	1 1/2 hr	Big Lake, Westside, Otterport Bay
August 12	12:30 PM	2:45 PM	2 1/4 hr	Big Lake - East side

Large leaf and clasp leaf pondweed, common  
northern milfoil, northern milfoil, elodea,  
new heavy aquatic vegetation of common reed  
and clasp leaf pondweed, clasp leaf pondweed,  
northern milfoil,  
large leaf pondweed, heavy concentration common  
reed, clasp leaf pondweed.  
Arrowhead, northern milfoil, various pondweed  
Water Lily, curly leaf pondweed, floating  
water hyacinth  
Curly leaf pondweed rooted to bottom, part  
part of common reed, in common reed near  
backwater  
no water was found. clasp leaf pondweed  
northern milfoil  
extremely heavy concentrations of common reed  
various pondweed, northern milfoil  
large & clasp leaf pondweed. No water  
noted.









# AQUATIC INVASIVE SPECIES SURVEY

3/27/20

LAKE Uppawater

CCROA

NAME \_\_\_\_\_

KELLEN TAXHURST

<u>DATE</u>	<u>TIME</u>			<u>LAKE AREA SURVEYED</u>	<u>FINDINGS AND NOTES</u>
	<u>Start</u>	<u>Finish</u>			
JUNE 14	4:00 pm	6:00 pm	2 hrs.	WHOLE LAKE (clearwater)	FOUND EURASIAN MILFOIL
AUG. 14	2 pm	5 pm	3 hrs.	WHOLE LAKE (clearwater)	FOUND DYING & SOME LIVING MILC
AUG. 19	3:30	4:30	1 hr.	CLEARWATER	SPAW A FEW PLANTS
AUG. 20	3:00	5:00	2 hr.	Clearwater, Little Africa Big Africa	Eurasian milfoil - a few plants each
AUG. 21	12 pm	3 pm	1 hr.	Moosehead lake	lots of northern milfoil around perime
AUG. 26	4:00	5:00	1 hr.	CLEARWATER	NO MILFOLL OBSERVED - WEEDS

# AQUATIC INVASIVE SPECIES SURVEY

LAKE Marnie

CCROA

NAME \_\_\_\_\_

Rich Andersen

[illegible]

# AQUATIC INVASIVE SPECIES SURVEY

CCROA

NAME \_\_\_\_\_

Glenn Anderson

LAKE Namee

[illegible]





# AQUATIC INVASIVE SPECIES SURVEY

CCROA

NAME \_\_\_\_\_

22

DATE \_\_\_\_\_

## TIME

## LAKE AREA SURVEYED

## FINDINGS AND NOTES

6/22/09

4:00 PM

505

Hle.

*D. B. Drake*

S. C. Drake

No suspects - Nathan Muller

7/18/09

7:30 PM

8:30 pm

1 hr.

N.W. Drake

N.W. Shore

No suspects - " " present

8/23/09

2.0000

3.30 pm

1 1/2 hrs.

Entire Shoreline

Suspect C.P. - Sample taken

9/04/09

3:00 pm

4:00 pm

192.

11

11 11

checked location. C1 found on 8/23/09

No other plants  
fade in greenery."



## AQUATIC INVASIVE SPECIES SURVEY

CCROA

NAME

Don Hall

LAKE Cisco

DATE	TIME		LAKE AREA SURVEYED	FINDINGS AND NOTES
	Start	Finish		
July 30	10 AM	12 AM	Cisco Channel	no E. Milfoil found
August 20	1 PM	3:30	north end	northern milfoil only
August 26	11 AM	12:30	west shore	" " "
August 31	10 AM	12:30	East Shore	" " "
many Threatened			Lindsey	Treated for CLPW
Threatened June 6			Clearwater	" " Milfoil

18<sup>1/2</sup> hrs

WATER CRAFT

Run about.

2009

## AQUATIC INVASIVE SPECIES SURVEY

Fish Hawk  
+ Misc

CCROA

NAME Dean Chaired

LAKE

DATE	TIME		LAKE AREA SURVEYED	FINDINGS AND NOTES
	Start	Finish Spent		
5/24/09	7:00 AM	8 AM 1hr	Lindsley	None
5/24/09	8 AM	9 AM 1 hr	Fish Hawk <del>Lindsley</del> Laurel	None
5/23/09	7:30	9:30 2hr	Fish Hawk <del>Lindsley</del> Complete	None
6/3/09	8:00 AM	9:00 1hr	Fish Hawk	None
6/3/09	9:00	10:00 1hr	Lindsley	Curly leaf
6/15/09	9:00	11:45 2.5 hrs	Lindsley	Treat. Curly leaf
6/14/09	7:00 pm	8 pm 1hr	Fish Hawk	None
6/16/09	4:00	5:30 1.5	Fish Hawk Lindsley	None partial dead / partial live after treatment
7/15/09	4:00	5:30 1.5	Survey Fish Hawk + East Bay	None
7/14/09	8:00	9:30 1.5	Survey Fish Hawk + Lindsley	Some dead on Sunday
7/20/09	3:30	5:30 2.0	Survey Fish Hawk + Lindsley	None
8/5/09	9:00	11:00 2.00	Survey Fish Hawk + Lindsley	None

Total 18.5 hrs.

NAME Carolyn Rohlen

CCROA

LAKE POOL

[illegible]

## AQUATIC INVASIVE SPECIES SURVEY

CCROA

LAKE Marie &amp; East Bay

NAME

Kully Rohrer

DATE	TIME		LAKE AREA SURVEYED	FINDINGS AND NOTES
	Start	Finish		
8-22-09	9:30	1:30	ALL SHORE LINES	no Invasives found Marie
	1:30	3:30	" "	" " EAST BAY
			MORNING	2 pontoon boats
			3 x 5 = 15	1) Gloria Dick Anderson
			Afternoon	2) Dennis Fleury Kelly Rella
			2 x 5 = 10	1 power Boat - Was Kiley.
			total 25 hours.	
			7 Samplers were pulled for identification.	
			all were not A.I.S.	









**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 29, 2009

Mr. Norman Nass  
United States Department of Agriculture – Forest Service  
Old US Hwy 2 East  
P.O. Box 276  
Watersmeet, MI 49969

Dear Mr. Nass:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil (EWM) and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 17<sup>th</sup> and 18<sup>th</sup>, 2009 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

Eight colonies of purple loosestrife were identified as being located within the Bergland Development. One colony of 1-5 plants, three colonies of 6-50 plants, and four colonies of 50+ plants were observed.

In consultation with the Bond Falls Implementation Team (BFIT), UPPCO released approximately 500 *Galerucella* beetles (beetles) on the south end of the Bergland Development on July 6<sup>th</sup>, 2009. The beetles were in addition to the 200 beetles released in 2008. The beetles were between the larval stage and emerging adult stage when released. This was the second year of the beetle release activities for the control of purple loosestrife.

Beetle activity was not observed on the purple loosestrife plants sampled. The reason for beetle activity not being observed is unknown however it could be do to the size of the purple loosestrife colony. The colony is large and it may be that the beetles are only established on a few plants and these plants were not identified during the survey. Other possibilities could be that the beetles are not able to withstand the colder temperatures.

It is in UPPCO's opinion that the purple loosestrife colony is large and the beetles were released at low population numbers and need more time to establish. UPPCO released approximately 200 beetles in the larval stage at the Au Train Hydroelectric Project (FERC Project # 10856) in late June. The Au Train Project is located in a region with similar climate to the Bergland Development and beetle feeding was observed on a colony during the purple loosestrife surveys completed in August.

UPPCO is in support of an additional release of beetles in 2010. UPPCO will however purpose to release a larger population of beetles in 2010. UPPCO is anticipating releasing beetles that have been first established and raised on potted plants. UPPCO will consultant with BFIT prior to any release activities. Appendix A includes the result of the 2009 purple loosestrife survey conducted at the Bergland Development, along with a purple loosestrife survey comparison of years 2008 and 2009.

Mr. Norman Nass  
October 29, 2009  
Page 2 of 2

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The Cisco Chain Riparian Owners Association (CCROA) has conducted EWM and purple loosestrife surveys on the Cisco Chain of Lakes. No purple loosestrife was identified within the Cisco Chain. EWM was identified at Clear Lake located on the north end of the Cisco Chain. The EWM encompassed approximately 5 acres and spread throughout the central and south central sections of the Lake. The area was treated using an approved aquatic herbicide in April with a follow up treatment conducted in September. The area will be surveyed again in 2010 to determine the success of the treatment.

In 2009, Curly Leaf Pondweed (CLP) was also identified at the Cisco Chain. Approximately 4 acres of CLP was located on the west end of Lindsey Lake. The CCROA treated the area using an approved aquatic herbicide in June. The area will be surveyed again in 2010 to determine the success of the treatment. More information concerning the surveys completed and treatment is provided in the 2009 CCROA Invasive Species Survey and Control Report included in Appendix C.

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Once the figure is received from the CCROA, UPPCO will provide it to your attention. In addition to the figure, UPPCO will be providing the Cumulative Aquatic Invasive Species Survey and Control Report completed by the CCROA. The report provides a summary on the aquatic invasive species surveys and control activities the Association has been completing on the Cisco Chain since 2000.

Should you have any questions relative to this material, please do not hesitate to call me.

Sincerely,



James Nuthals  
Environmental Services  
Natural Resource Management  
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Jim Melchiori, UPPCO - UVD



**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 29, 2009

Mr. Gene Mensch  
KBIC - Natural Resources Department  
HCRO1 Box 120  
L'Anse, MI 49946

Dear Mr. Mensch:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil (EWM) and purple loosestrife monitoring surveys.

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Mr. Gene Mensch  
October 29, 2009  
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James Nuthals  
Environmental Services  
Natural Resource Management  
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johanek, WPSC - D2  
Mr. Jim Melchiori, UPPCO - UVD



**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 29, 2009

Ms. Christie Deloria-Sheffield  
U.S. Fish & Wildlife Service  
Upper Peninsula Sub-Office  
Ecological Services  
3090 Wright Street  
Marquette, MI 49855

Dear Ms. Deloria-Sheffield:

FERC Project No. 1864

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Ms. Christie Deloria-Schenfield

October 29, 2009

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Sincerely,



James Nuthals  
Environmental Services  
Natural Resource Management  
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Jim Melchiori, UPPCO - UVD



**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

October 29, 2009

Mr. Jim Schramm  
Michigan Hydro Relicensing Coalition  
1210 East Fifth Avenue  
Houghton, MI 49931

Dear Mr. Schramm:

FERC Project No. 1864

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Mr. Jim Schramm  
October 29, 2009  
Page 2 of 2

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James Nuthals  
Environmental Services  
Natural Resource Management  
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Jim Melchiori, UPPCO - UVD



**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

October 29, 2009

Ms. Jessica Mistak  
Michigan Department of Natural Resources  
488 Cherry Creek Road  
Marquette, MI 49855-8999

Dear Ms. Mistak:

FERC Project No. 1864

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Ms. Jessica Mistak  
October 29, 2009  
Page 2 of 2

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Natural Resource Management  
Telephone: (920) 433-1460

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cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Jim Melchiori, UPPCO - UVD



**Upper Peninsula Power Company**

(a subsidiary of Integrys Energy Group)

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

October 29, 2009

Mr. Steve Gilbert  
Wisconsin Department of Natural Resources  
8770 Highway J  
Woodruff, WI 54568

Dear Mr. Gilbert:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil (EWM) and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 17<sup>th</sup> and 18<sup>th</sup>, 2009 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

Eight colonies of purple loosestrife were identified as being located within the Bergland Development. One colony of 1-5 plants, three colonies of 6-50 plants, and four colonies of 50+ plants were observed.

In consultation with the Bond Falls Implementation Team (BFIT), UPPCO released approximately 500 *Galerucella* beetles (beetles) on the south end of the Bergland Development on July 6<sup>th</sup>, 2009. The beetles were in addition to the 200 beetles released in 2008. The beetles were between the larval stage and emerging adult stage when released. This was the second year of the beetle release activities for the control of purple loosestrife.

Beetle activity was not observed on the purple loosestrife plants sampled. The reason for beetle activity not being observed is unknown however it could be do to the size of the purple loosestrife colony. The colony is large and it may be that the beetles are only established on a few plants and these plants were not identified during the survey. Other possibilities could be that the beetles are not able to withstand the colder temperatures.

It is in UPPCO's opinion that the purple loosestrife colony is large and the beetles were released at low population numbers and need more time to establish. UPPCO released approximately 200 beetles in the larval stage at the Au Train Hydroelectric Project (FERC Project # 10856) in late June. The Au Train Project is located in a region with similar climate to the Bergland Development and beetle feeding was observed on a colony during the purple loosestrife surveys completed in August.

UPPCO is in support of an additional release of beetles in 2010. UPPCO will however purpose to release a larger population of beetles in 2010. UPPCO is anticipating releasing beetles that have been first established and raised on potted plants. UPPCO will consultant with BFIT prior to any release activities. Appendix A includes the result of the 2009 purple loosestrife survey conducted at the Bergland Development, along with a purple loosestrife survey comparison of years 2008 and 2009.



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EWM surveys were also conducted on August 17<sup>th</sup> and 18<sup>th</sup>, 2009 for the Bond Falls Hydroelectric Project. A total of ten sample locations were selected throughout the Bond Falls Hydroelectric Project. The surveys did not indicate the presence of EWM at the Bond Falls Hydroelectric Project. Results from the EWM surveys are attached as Appendix B.

The Cisco Chain Riparian Owners Association (CCROA) has conducted EWM and purple loosestrife surveys on the Cisco Chain of Lakes. No purple loosestrife was identified within the Cisco Chain. EWM was identified at Clear Lake located on the north end of the Cisco Chain. The EWM encompassed approximately 5 acres and spread throughout the central and south central sections of the Lake. The area was treated using an approved aquatic herbicide in April with a follow up treatment conducted in September. The area will be surveyed again in 2010 to determine the success of the treatment.

In 2009, Curly Leaf Pondweed (CLP) was also identified at the Cisco Chain. Approximately 4 acres of CLP was located on the west end of Lindsey Lake. The CCROA treated the area using an approved aquatic herbicide in June. The area will be surveyed again in 2010 to determine the success of the treatment. More information concerning the surveys completed and treatment is provided in the 2009 CCROA Invasive Species Survey and Control Report included in Appendix C.

A figure providing the site locations of EWM and CLP identified within the Cisco Chain during the 2009 survey activity is currently being produced. The CCROA in the process of completing the figure however it was not able to be provided prior to the FERC required report submittal date of October 31, 2009.

Once the figure is received from the CCROA, UPPCO will provide it to your attention. In addition to the figure, UPPCO will be providing the Cumulative Aquatic Invasive Species Survey and Control Report completed by the CCROA. The report provides a summary on the aquatic invasive species surveys and control activities the Association has been completing on the Cisco Chain since 2000.

Should you have any questions relative to this material, please do not hesitate to call me.

Sincerely,



James Nuthals  
Environmental Services  
Natural Resource Management  
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Jim Melchiori, UPPCO - UVD

**Appendix A through C are identical to the Appendix A through C provided to FERC, except for a figure of the 2009 Cisco Chain Survey Results which was provided via electronic mail to the resource agencies. This figure is included in Appendix C. The Appendices are not being provided in an effort to reduce the size of the document.**

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