## ORIGINAL

OFFICE OF THE SECRETARY

2008 HAR 14 P 2: 33

March 13, 2008

FEDERAL EHERGY REGULATORY COMMISSION

Ms. Kimberly Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

P-2207-034

Re: Mosinee Hydroelectric Project, FERC Project No. 2207 Invasive Species Survey Report

#### Dear Secretary Bose:

In accordance with the monitoring plan for invasive species, Wausau Paper has completed an initial year of surveillance. Enclosed please find an original and eight (8) copies of a report documenting the results of the first year of the survey. Also enclosed is a copy of a letter sent to the Wisconsin Department of Natural Resources and the U.S. Fish and Wildlife Service requesting their comments on the survey and report. As indicated in the request letter their comments were due March 1, 2008. To date we have not received any comments from the USFW or from the WDNR. If there are any questions please contact me at 952-544-8133.

Sincerely,

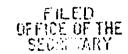
SPAULDING CONSULTANTS, LLC

Douglas A. Spaulding, P.E.

**Enclosure** 

cc: Mr. Jim Pauls, Wausau Paper





2006 MAR 14 P 2: 33

January 26, 2008

REGULATURY COMMISSION

Ms. Louise Clemency
U.S. Fish and Wildlife Service
Green Bay ES Field Office
2661 Scott Tower Drive
New Franken, WI 54229

FERC Licensing Review
Wisconsin Department of Natural Resources
101 South Webster
Madison, WI 54707

Re: Mosinee Hydroelectric Project, FERC Project No. 2207, Invasive Species Survey

Dear Ms. Smith and Sir/Madam:

Article 408 of the FERC license for Project No. 2207 requires that Wausau Paper (Wausau) prepare a plan to monitor invasive species for the Mosinee Hydroelectric Project. This plan was approved by the FERC on September 13, 2006.

Enclosed is a copy of Wausau's initial annual survey. Please review this survey and provide us with comments on or before March 1, 2008. We will then forward the survey to the FERC.

Sincerely,

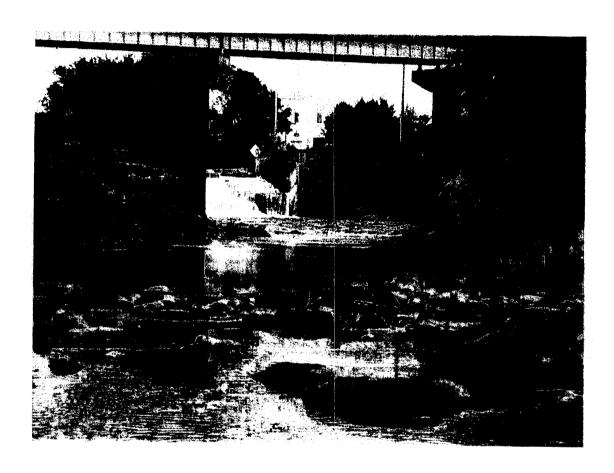
SPAULDING CONSULTANTS, LLC

Douglas A. Spaulding, P.E.,

Agent for Wausau Paper

cc: Mr. Jim Pauls, Wausau Paper

# 2007 INVASIVE SPECIES REPORT FOR THE MOSINEE HYDROELECTRIC PROJECT MARATHON COUNTY, WISCONSIN FERC Project No. 2207



Submitted By Wausau Paper Corporation

January 2008

Prepared By
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P.O. Box 167
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Neshkoro, Wisconsin 54960
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#### 1.0 Summary

A baseline meandered survey for purple loosestrife (*Lythrum salicaria*), Eurasian water milfoil (*Myriophyllum spicatum*), and curly-leaf pondweed (*Potamogeton crispus*) was performed at the Mosinee Hydroelectric Project in Marathon County, Wisconsin from July 16, 2007 through July 24, 2007 with a follow up visit on August 9, 2007.

Purple loosestrife (PL) was found throughout the entire survey area. Densities ranged from areas without any PL plants observed (usually undisturbed wooded shorelines with northern exposures to limit sunlight penetration) to areas with very heavy densities of PL (usually sun drenched marshes, islands, and managed and controlled shorelines were vegetation had been cleared). Under circumstances such as these, a biological control program involving the release of Galerucella (Cella) beetles may be recommended to help reduce the spread and even eliminate many of the PL plants. Shortly into the first day of the baseline survey, the crew discovered that Cella beetles already exist at the project.

The survey crew noted areas of heavy Cella beetle damage for comparison in future surveys. Beetle damage ranged from light leaf damage that seemed to have little effect on plants to the apparent complete destruction of many plants. Where heavy damage was observed, the results were quite dramatic.

Eurasian water milfoil (EWM) and curly-leaf pondweed (CLP) were found in a number of the shallow areas throughout the project waters. A point intercept survey was performed concurrently with the meandered survey to quantify these occurrences. In general, wherever EWM and CLP did occur, densities were low and did not cause navigational difficulties for the survey crew.

#### 2.0 Methods

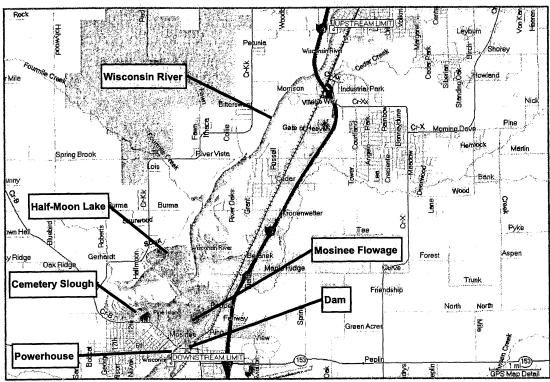
The upstream and downstream survey limits for PL, CLP, and EWM are shown on the following map labeled Survey Limits and were defined as follows. The waters and shoreline of the Wisconsin River and Mosinee Flowage from N44° 52′ 48.4″ W89° 38′ 16.6″ WGS84 approximately 1.0 miles upstream of the I-39 Bridge to the dam at the Mosinee Hydroelectric Project; the waters and shoreline of the power canal, bypass reach, and tailrace from the dam at the Mosinee Hydroelectric Project downstream to N44° 47′ 10.6″ W89° 42′ 08.6″ WGS84 approximately 0.5 miles downstream of the HWY 153 Bridge; the waters and shoreline of Half-Moon Lake and Cemetery Slough.

#### 2.1 Purple Loosestrife

In 2007, a baseline survey for PL was performed at the Mosinee project. Prior to the 2007 field survey, information on PL distribution and treatment

was acquired from the Great Lakes Indian Fish and Wildlife Commission (GLIFWC) and the Wisconsin Department of Natural Resources (WIDNR). In addition, a vegetation survey conducted July 9-12, 2001 and included in Exhibit E of the Application For New License for the Mosinee Hydroelectric Project filed with the Federal Energy Regulatory Commission (FERC) on 12/7/2002 was analyzed to assist in the planning of the 2007 baseline PL survey.

The 2007 PL meander survey was performed by scanning the shoreline and shallow areas of the project waters by two people from a boat.



SURVEY LIMITS

Certain areas were surveyed from land where it was not practical or possible to observe from the boat. These would include the area from the boat barrier to the dam and the head gates of the power canal, the bypass reach, the power canal, the tail race, and the western side of Cemetery Slough along County HWY B. High powered (15 x 50) image stabilization binoculars were used to facilitate the spotting of plants. When PL was identified, a handheld Garmin Global Positioning System (GPS) unit with Wide Area Augmentation System (WAAS) enabled was used to map the location. Where practical, small occurrences of PL were pulled to help prevent further spread of the plants.

Maps and results of this survey are included in Appendix A in this report.

#### 2.2 Eurasian Water Milfoil

In 2007, a baseline survey for EWM and CLP was performed at the Mosinee project. Prior to the 2007 baseline field survey, information on EWM and CLP distribution and treatment was acquired from the GLIFWC and the WIDNR. In addition, a vegetation survey conducted July 9-12, 2001 and included in Exhibit E of the Application For New License for the Mosinee Hydroelectric Project filed with the FERC on 12/7/2002 was analyzed to assist in the planning of the 2007 baseline EWM and CLP survey.

The 2007 EWM & CLP survey was performed by visually scanning shallow areas of the project waters during the PL meander survey by two people from a boat. If a suspected plant was observed, a sample was grabbed and identified. During launch and recovery of the survey boat, boat ramps and parking areas were scanned for the presence of EWM and CLP plants. These would include River Park, Half-Moon Lake, and Chuck's Landing boat ramps. No EWM or CLP was found at any of these boat ramps.

A point intercept survey for EWM and CLP was performed concurrently with the PL/EWM/CLP meander survey. A document received from the WIDNR entitled *Monitoring of Aquatic Macrophytes 2/13/06* was used as a basis for this survey. This document is included in Appendix C at the end of this survey. In November 2006, point intercept sampling locations were acquired from the WIDNR for the Mosinee Flowage (716 acres, 518 sample points), Half-Moon Lake (218 acres, 154 sample points), and Cemetery Slough (135 acres, 102 sample points). These locations were formatted and uploaded to a handheld Garmin GPS device with WAAS capability.

Besides the standard safety devices located in the survey boat, the following equipment was used; handheld Garmin GPS unit with WAAS enabled (with site locations already loaded), lake maps, field data sheets, 18-foot pole-mounted rake (for deep locations), 8-foot pole-mounted rake (for shallow locations), push pole, depth finder, electric trolling motor, and polarized sunglasses.

When navigating to the sites using the GPS unit, the zoom level was set to 80 feet. Once the GPS navigation arrow covered the sample point, a rake was dropped to the bottom and dragged for about 2.5 feet. Weeds retrieved were sorted for the presence of EWM and CLP. For each site, the sample point number, latitude, longitude, depth, sediment type, EWM density, CLP density, and comments were recorded. If northern water milfoil was observed at a sample point, it was noted in the comments field.

For hard to reach sites where no sample could be taken (blocked by logs, blocked by fallen trees, etc.), the depth, sediment type, and EWM and CLP density fields were left blank and N/A (no access) was recorded in the comments field. In the case of inaccessible shallow sloughs with deep muck, the sediment type field was designated as muck even though the survey crew could not actually reach the sample point.

If a sample site produced no weeds, the depth was recorded and a notation was made in the comments field. After the depth of the deepest weed growth was established, for all deeper points, depth was recorded, but no samples were taken and a notation was made in the comments field.

Maps and results of this survey are included in Appendix B in this report.

#### 2.3 Miscellaneous

Previous to initially launching into Mosinee Hydroelectric Project waters, the survey boat and survey equipment were treated with a bleach solution to prevent possible spread of invasive species from other locations. After the survey was completed and before launching into other waters, the survey boat and survey equipment were again treated with a bleach solution. Weeds were removed from boat and trailer after each recovery and before leaving the boat launch.

#### 3.0 Observations

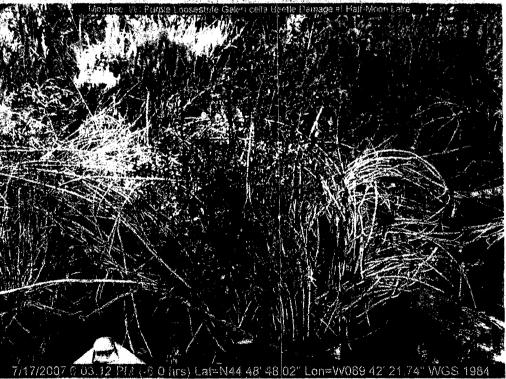
#### 3.1 Purple Loosestrife

As mentioned earlier, a meandered survey for PL was performed at the Mosinee Hydroelectric Project from July 16, 2007 through July 24, 2007 with a follow up visit on August 9, 2007.

Normally, survey crews look for the purple flowers along with the old cane of the previous years' plants to locate stands of PL. However, during the first day of the survey, Cella beetles were discovered to be present at a quite a number of PL occurrences. Upon closer inspection, it was noted that the beetles were partially defoliating and stunting the growth of a large amount of PL plants to the point where the flowers were not developing. At that point, the crew found it necessary to slow down, stay closer to shore, and look for additional plants by color and texture. Damaged plants took on a yellow/green or brown color and were readily identified against the darker green surrounding vegetation.



Galerucella Beetles on Purple Loosestrife



Beetle Damage on Purple Loosestrife Against Darker Green Surrounding Vegetation

It was soon realized that, with the amount of PL plants being found at the Mosinee project, a faster and more generalized method of estimating the quantity and locations of plants would be needed in order to avoid an extremely large and unmanageable database of information. Rather than recording every single occurrence of PL, a density rating was assigned to all shoreline areas of the impoundment in the areas designated as Half-Moon Lake, Cemetery Slough, and the Mosinee Flowage. Values were assigned for the estimated amount of PL plants per 1000 square feet of area and are as follows:

N (None) = 0 L (Light) = 1 - 5 plants M (Medium) = 6 - 25 plants H (Heavy) = 26 - 100 plants VH (Very Heavy) = >100 plants

As the crew moved upstream from the Mosinee Flowage and up the Wisconsin River, PL occurrences became fewer and further between and beetle damage became almost nonexistent. From this point (N44° 48′ 52.4″ W89° 49′ 21.6″ WGS84) to the upstream project limit, every occurrence of PL was recorded. Also, for a stretch of 2.8 river miles (N44° 48′ 52.4″ W89° 49′ 21.6″ to N44° 50′ 50.3″ W89° 40′ 00.7″ WGS84), all PL plants that could be reached were pulled so that this control measure could be compared along this river stretch in subsequent surveys.

In the area of the tailrace and by-pass reach from the dam and powerhouse to the downstream limit, all individual occurrences of PL that were observed were recorded. This area had a moderate amount of Cella damage and a number of beetles were observed feeding on plants.

Maps and results of this survey are included in Appendix A in this report.

#### 3.2 Eurasian Water Milfoil and Curly-leaf Pondweed

EWM and CLP were documented at the Mosinee project during the 2007 baseline survey. A meandered survey and a point intercept survey for EWM and CLP were performed at the Mosinee Hydroelectric Project from July 16, 2007 through July 24, 2007 with a follow up visit on August 9, #2007.

No EWM or CLP was detected in Half-Moon Lake. Both EWM and CLP were found in Cemetery Slough and the Mosinee Flowage. None of these species were found in depths greater than 4 feet. This may be due to the water being very turbid. Turbidity may also account for the low densities of both varieties wherever they were located.

No EWM or CLP was detected in the tailrace or the by-pass reach areas, and one occurrence of EWM was located at the entry to a short slough (N44° 49′ 52.5″ W89° 41′ 08.1″ WGS84) on the left side of the Wisconsin River upstream of the Mosinee Flowage.

Maps and results of this survey are included in Appendix A in this report.

#### 3.3 Miscellaneous

No other invasive species were observed within the survey limits. The survey crew also noted that PL is abundant in the Mosinee area outside of the project boundary, particularly within the Interstate I-39 corridor which crosses the Wisconsin River near the upstream survey limit. EWM and CLP have been reported found in the Wisconsin River both upstream and downstream of the Mosinee Hydroelectric Project.

#### 4.0 Recommendations

#### 4.1 Purple Loosestrife

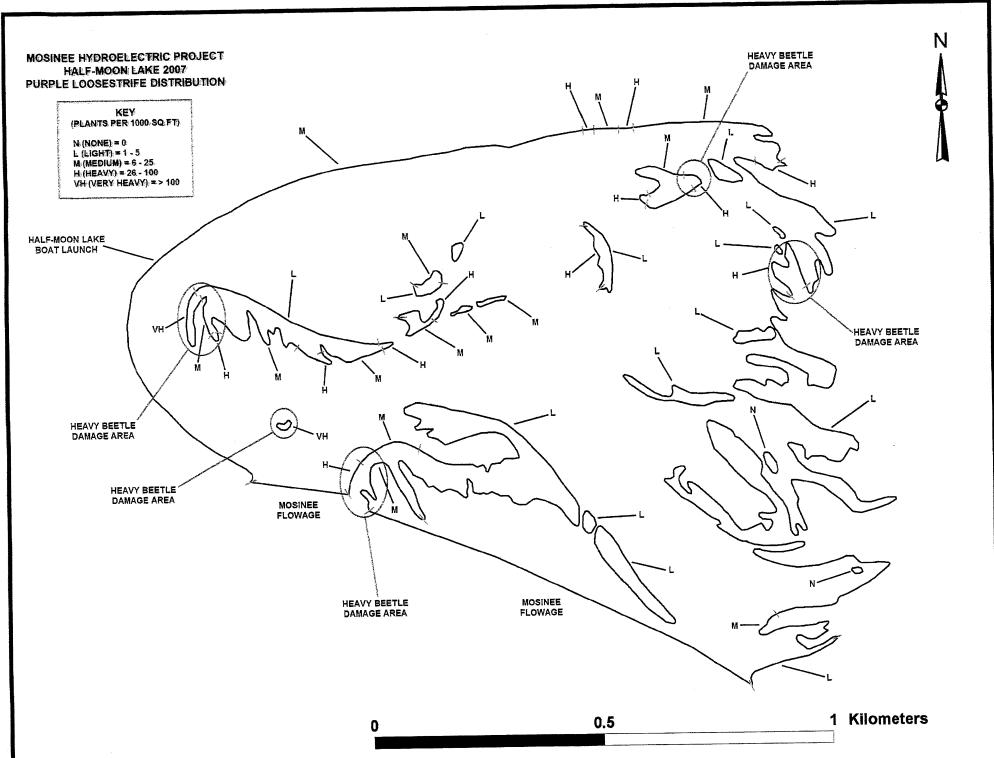
Biological control for PL is already in place at the Mosinee project in the form of Galerucella beetles. This has been proven as one of the most practical and economical methods of controlling the spread of PL. Considering the quantity of PL and the terrain in the survey area, chemical and/or mechanical control methods would be very difficult and, most likely, not as effective. It would be possible to accelerate the effects of Cella beetles on the PL population by redistributing them from areas with high populations to areas were few of no Cella beetles exist. This would be most effectively done in the spring of the year, but could also be done at the time of the subsequent surveys, provided Cella beetles are present at that time.

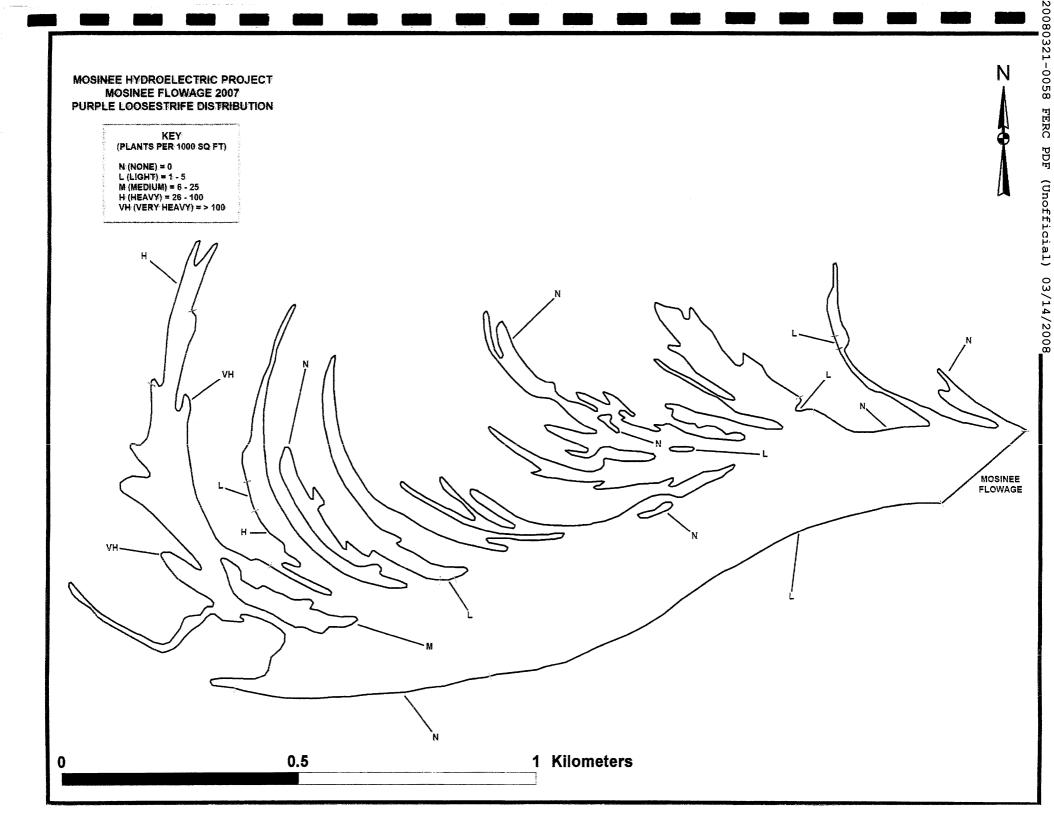
#### 4.2 Eurasian Water Milfoil and Curly-leaf Pondweed

Although EWM and CLP were found throughout Cemetery Slough and the Mosinee Flowage, densities were light and caused no impediment to navigation. Since this is the baseline for subsequent surveys, it is difficult to tell whether EWM and CLP are remaining stabile or expanding from existing information. It would probably be best to wait until more information is available in subsequent surveys before deciding if any control measures are needed.

				Purple L	oosestrife Sı	urvey Results	
					APPENDIX	( A	
20080321-0058	B FERC	PDF	(Unofficial)	03/14/2008			

PDF





Purple Loosestrife Survey

Project:

Mosinee #2207

Datum:

WGS 84

Date:

7/16/07 - 7/24/07 & 8/9/07

Crew:

GPS point	Latitude	Longitude	Plant Height	Stand Area	Beetle Damage	Comments
MOSN PL001	N44° 49.021'	W89° 41.724'	2' - 6'	~100' x 50'	Heavy	First observed in 2007. 80% - 90% coverage. Old cane. No
IVIOSIN FLOOT	1477 70.021	1100 711127				treatment in 2007.
MOSN PL002	N44° 49,096'	W89° 41.878'	3' - 6'	~50 Plants	Heavy	First observed in 2007. Beetles found on plants. Photos &
WOSN FLOOZ	144 45.000	11.010			_	video(?). No treatment in 2007.
MOSN PL003	N44° 49.040'	W89° 42.221'	4' - 6'	3 Plants	None	First observed in 2007. On 5' diameter island. Plants
MOSIN PLOUS	14-7- 70.040	7100 12124				blooming. No treatment in 2007.
MOSN PL004	N44° 48.983'	W89° 42.514'	3' -6'	6 Plants on	Heavy	First observed in 2007. Beetles found on plants. Photos &
WOSIN F LOOP	1444 40.000	7700 121011		100' of		video(?). No treatment in 2007.
				shoreline		
MOSN PL005	N44° 48,800'	W89° 42.362'	2' - 8'	West side of	Heavy	First observed in 2007. Old cane with no new growth at
MOSIN FE003	1444 40.000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		cove		base. Photos & video(?). No treatment in 2007.
MOSN PL006	N44° 48.103'	W89° 41.600'	4'	1 Plant	None	First observed in 2007. All plants pulled in 2007.
MOSN PL007	N44° 48.025'	W89° 41.133'	2' - 4'	3 Plants	None	First observed in 2007. All plants pulled in 2007.
MOSN PL007	N44° 48.438'	W89° 41.802'	1' - 5'	~25 Plants	Medium	First observed in 2007. One plant blooming. No treatment in
MOSN PLUG	144 40.400	7700 41.002				2007.
MOSN PL009	N44° 48.461'	W89° 42.106'	2'	1 Plant	None	First observed in 2007. All plants pulled in 2007.
MOSN PL009	N44° 48.293'	W89° 42.031'	2'	2 Plants	Heavy	First observed in 2007. Shook three beetles off of plants. All
MOSIN FLOTO	1177 10.200	7,00 ,2.00				plants pulled in 2007.
MOSN PL011	N44° 48.622'	W89° 42.674'	2' - 3'	5 Plants	Light	First observed in 2007. On island. No treatment in 2007.
MOSN PL012		W89° 43.352'	2' - 9'	>1000 Plants	Heavy	First observed in 2007. Entire end of dead river channel
WOON LOTZ	10.100	,,,,,				covered with plants. Large amounts of old cane with no new
					1	growth at base. Photos & video(?). Revisited on 8/9/07. Lots
						of new growth since original beetle damage. Broken down
						duck blind in slough. Photos & video. No treatment in 2007.
MOSN PL013	N44° 48,222'	W89° 41.971'	3'	1 Plant	Light	First observed in 2007. No bloom. All plants pulled in 2007.
WOSIN LOTS	1144 40.222	1100 71101				
MOSN PL014	N44° 48.388'	W89° 41.148'	3'	4 Plants	Heavy	First observed in 2007. No bloom. No treatment in 2007.
MOSN PL015		W89° 41.286'	3' - 5'	2 Plants	None	First observed in 2007. All plants pulled in 2007.
MOSN PL015	N44° 49.207'	W89° 41.669'	2'-5'	2 Plants	None	First observed in 2007. Right side of river. All plants pulled in
MOSINFLOID	1477 70,207					2007.
MOSN PL017	N44° 49.303'	W89° 41.689'	4'	1 Plant	None	First observed in 2007. Right side of river. All plants pulled in
MOSINIEUTI	1,444 40,000					2007.
MOSN PL018	N44° 49.436'	W89° 41.672'	4' - 5'	2 Plants	None	First observed in 2007. Right side of river. All plants pulled in
INICOIA I ECIO	14-11					2007.
MOSN PL019	N44° 49.635'	W89° 41.560'	3' - 5'	2 Plants	None	First observed in 2007. Right side of river. All plants pulled in
14100141 5010						2007.

**Purple Loosestrife Survey** 

Project: Mo

Mosinee #2207

Datum:

WGS 84

Date:

7/16/07 - 7/24/07 & 8/9/07

Crew:

GPS point	Latitude	Longitude	Plant Height	Stand Area	Beetle Damage	Comments
MOSN PL020	N44° 49.716'	W89° 41.477'	3' - 5'	6 Plants	Light	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL021	N44° 49.832'	W89° 41.403'	4'	1 Plant	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL022	N44° 49.848'	W89° 41.341'	2' - 4'	2 Plants	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL023	N44° 50.074'	W89° 41.174′	2' - 4'	4 Plants	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL024	N44° 50.157'	W89° 41.105′	5'	1 Plant	None	First observed in 2007. Right side of river. Plant in the middle of fallen tree and could not reach it. No treatment in 2007.
MOSN PL025	N44° 50.357'	W89° 40.957'	6'	1 Plant	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL026	N44° 50.454'	W89° 40.795'	2' - 4'	6 Plants	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL027	N44° 50.589'	W89° 40.518'	3' - 6'	2 Plants	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL028	N44° 50.655'	W89° 40.369'	2' - 5'	6 Plants	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL029	N44° 50.683'	W89° 40.393'	4' - 7'	1 - 2 Plants	Unknown	First observed in 2007. Right side of river. Entrance to cove blocked by debris and too shallow to enter. Too far away to detect beetle damage. Location estimated. South of boat ramp. No treatment in 2007.
MOSN PL030	N44° 50.685'	W89° 40.248'	6'	1 Plant	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL031	N44° 50.751'	W89° 40.158'	4' - 5'	3 Plants	None	First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL032	N44° 50.841'	W89° 40.065'	3' - 5'	3 Plants		First observed in 2007. Right side of river. All plants pulled in 2007.
MOSN PL033	N44° 50.911'	W89° 40.011'	2' - 5'	10 Plants	None	First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL034	N44° 50.957'	W89° 39.986'	2' - 5'	5 Plants		First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL035	N44° 50.997'	W89° 39.964'	2' - 5'	5 Plants		First observed in 2007. Right side of river. No treatment in 2007.

Purple Loosestrife Survey

Project:

Mosinee #2207

Datum:

WGS 84

Date:

7/16/07 - 7/24/07 & 8/9/07

Crew:

GPS point	Latitude	Longitude	Plant Height	Stand Area	Beetle Damage	Comments
MOSN PL036	N44° 51.092'	W89° 39.903'	5' - 6'	5 Plants	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL037	N44° 51.345'	W89° 39.733'	4'	1 Plant		First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL038	N44° 51.405'	W89° 39.693'	6'	1 Plant	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL039	N44° 51.460'	W89° 39.654'	4' - 6'	3 Plants	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL040	N44° 51.568'	W89° 39.591'	6'	1 Plant	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL041	N44° 51.623'	W89° 39.556'	3' - 6'	2 Plants	None	First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL042	N44° 51.893'	W89° 39.243'	3'	1 Plant	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL043	N44° 51.999'	W89° 39.021'	4'	1 Plant	None	First observed in 2007. Right side of river. South of power line. No treatment in 2007.
MOSN PL044	N44° 52.018'	W89° 38.882'	4'	1 Plant	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL045	N44° 52.100'	W89° 38.670'	4' - 6'	~15 - 25 Plants	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL046	N44° 52.156′	W89° 38.591'	4' - 6'	5 Plants	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL047	N44° 52.244'	W89° 38.516'	3'	1 Plant	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL048	N44° 52.329'	W89° 38.459'	3'	2 Plants	None	First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL049	N44° 52.396'	W89° 38.433'	3' - 4'	5 Plants	None	First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL050	N44° 52.467'	W89° 38.411'	3' - 5'	~6 - 10 Plants	s None	First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL051	N44° 52.506′	W89° 38.401'	3' - 5'	4 Plants	None	First observed in 2007. Right side of river. No treatment in 2007.

**Purple Loosestrife Survey** 

Project: Mosinee #2207 Datum:

Date: 7/16/07 - 7/24/07 & 8/9/07

Crew: RAL & CTM

GPS point	Latitude	Longitude	Plant Height	Stand Area	Beetle Damage	Comments
MOSN PL052	N44° 52.545'	W89° 38.396'	3' - 5'	3 Plants	None	First observed in 2007. Right side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL053	N44° 52.639'	W89° 38.373'	4'	1 Plant	None	First observed in 2007. Right side of river. Plant behind island. No treatment in 2007.
MOSN PL054	N44° 52.680'	W89° 38.348′	3'	1 Plant	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL055	N44° 52.717'	W89° 38.333'	4'	2 Plants	None	First observed in 2007. Right side of river. No treatment in 2007.
MOSN PL056	N44° 52.803'	W89° 38.322'	5'	2 Plant	None	First observed in 2007. Right side of river. Plant in middle of power line right-of-way. No treatment in 2007.
MOSN PL057	N44° 52.758'	W89° 38.235'	4'	2 Plants	None	First observed in 2007. Left side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL058	N44° 52.612'	W89° 38.267'	2' - 4'	4 Plants	None	First observed in 2007. Left side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL059	N44° 52.426'	W89° 38.335'	5'	1 Plant		First observed in 2007. Left side of river. No treatment in 2007.
MOSN PL060	N44° 52.362'	W89° 38.344'	4' - 5'	2 Plants	None	First observed in 2007. Left side of river. No treatment in 2007.
MOSN PL061	N44° 52.284'	W89° 38.385'	4'	7 Plants		First observed in 2007. Left side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL062	N44° 52.186′	W89° 38.444'	2' - 5"	8 Plants		First observed in 2007. Left side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL063	N44° 52.118'	W89° 38.510'	3' -5'	6 Plants		First observed in 2007. Left side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL064	N44° 51.992'	W89° 38.722'	4'	1 Plant		First observed in 2007. Left side of river. No treatment in 2007.
MOSN PL065	N44° 51.977'	W89° 38.797'	4'	2 Plants	None	First observed in 2007. Left side of river. All plants on shoreline within 100' of each other. No treatment in 2007.
MOSN PL066	N44° 51.694'	W89° 39.311'	3' - 5'	5 Plants		First observed in 2007. Left side of river. No treatment in 2007.

WGS 84

Purple Loosestrife Survey

Project:

Mosinee #2207

Datum:

WGS 84

Date:

7/16/07 - 7/24/07 & 8/9/07

Crew:

CDC!4	Latitude	Longitude	Plant Height	Stand Area	<b>Beetle Damage</b>	Comments
GPS point MOSN PL067	N44° 51.486'	W89° 39.532'	4'	1 Plant	None	First observed in 2007. Left side of river. No treatment in 2007.
MOSN PL068	N44° 50.974'	W89° 39.870'	5'	1 Plant	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL069	N44° 50.827'	W89° 39.975'	4' - 6'	2 Plants	None	First observed in 2007. Left side of river. No treatment in 2007.
MOSN PL070	N44° 50.761'	W89° 40.041'	5'	1 Plant	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL071	N44° 50.640'	W89° 40.197'	4' - 5'	2 Plants	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL072	N44° 50.466'	W89° 40.569'	4'	1 Plant	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL073	N44° 50.428'	W89° 40.670'	5'	1 Plant	None	First observed in 2007. Left side of river. In log jam. Could not reach plant. No treatment in 2007.
MOSN PL074	N44° 50.153'	W89° 41.034'	4'	2 Plants	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL075	N44° 50.179'	W89° 40.930'	3' - 5'	3 Plants	None	First observed in 2007. In muck filled slough. Could not reach plant. No treatment in 2007.
MOSN PL076	N44° 49.981'	W89° 41.120'	5'	2 Plants	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL077	N44° 49.677'	W89° 41.362'	6'	1 Plant	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL078	N44° 49.488'	W89° 41.556′	4'	2 Plants	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL079	N44° 49.015'	W89° 41.505'	4'	2 Plants	None	First observed in 2007. Left side of river. All plants pulled in 2007.
MOSN PL080	N44° 48.935'	W89° 41.480'	4'	2 Plants	None	First observed in 2007. Left side of river. In log jam. Could not reach plant. No treatment in 2007.
MOSN PL081	N44° 48.903'	W89° 41.468'	4'	3 Plants	Medium	First observed in 2007. Left side of river. Growing out of stump in river. All plants cut in 2007.
MOSN PL082	N44° 47.267'	W89° 41.822'	3' - 4'	2 Plants	None	First observed in 2007. On rock island. Not blooming. No treatment in 2007.
MOSN PL083	N44° 47.285'	W89° 41.802'	2' - 4'	10 Plants	Light	First observed in 2007. In brush south of effluent discharge No treatment in 2007.
MOCNI DI 004	N44° 47.305'	W89° 41.805'	2' - 4'	25 Plants	Light	First observed in 2007. No treatment in 2007.
MOSN PL084		W89° 41.756'	2' - 4'	30 Plants	Light	First observed in 2007. No treatment in 2007.
MOSN PL085		W89° 41.754'	2' - 4'	20 Plants	Light	First observed in 2007. No treatment in 2007.
MOSN PL086	N44° 47.272'	W89° 42.096'	2' -4'	2 Plants	None	First observed in 2007. All plants pulled in 2007.

**Purple Loosestrife Survey** 

Project: Mosine

Mosinee #2207

Datum:

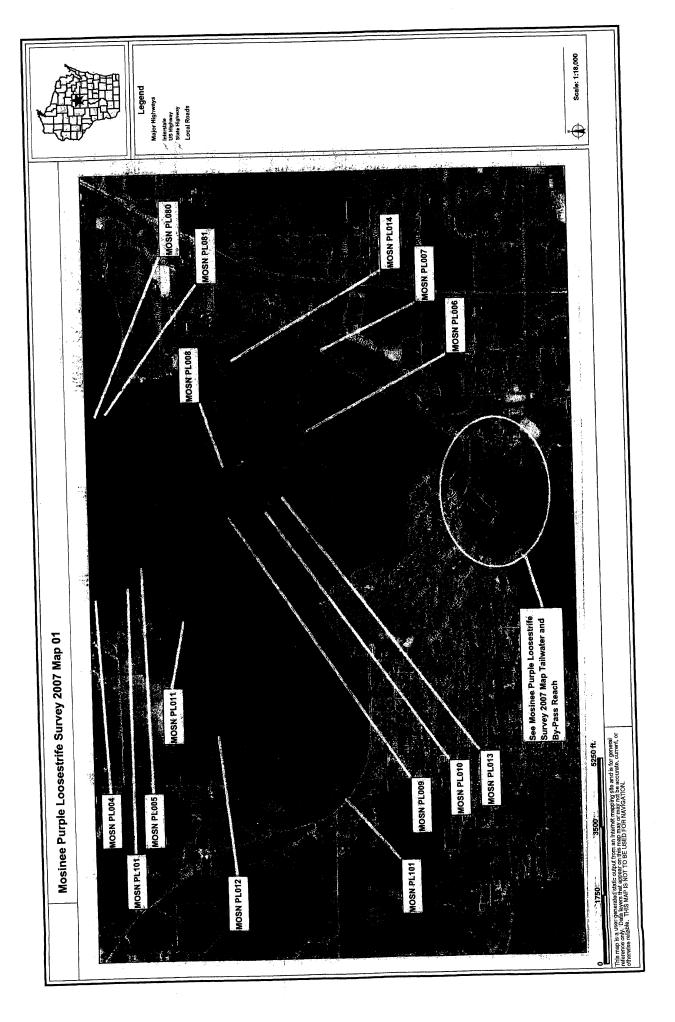
WGS 84

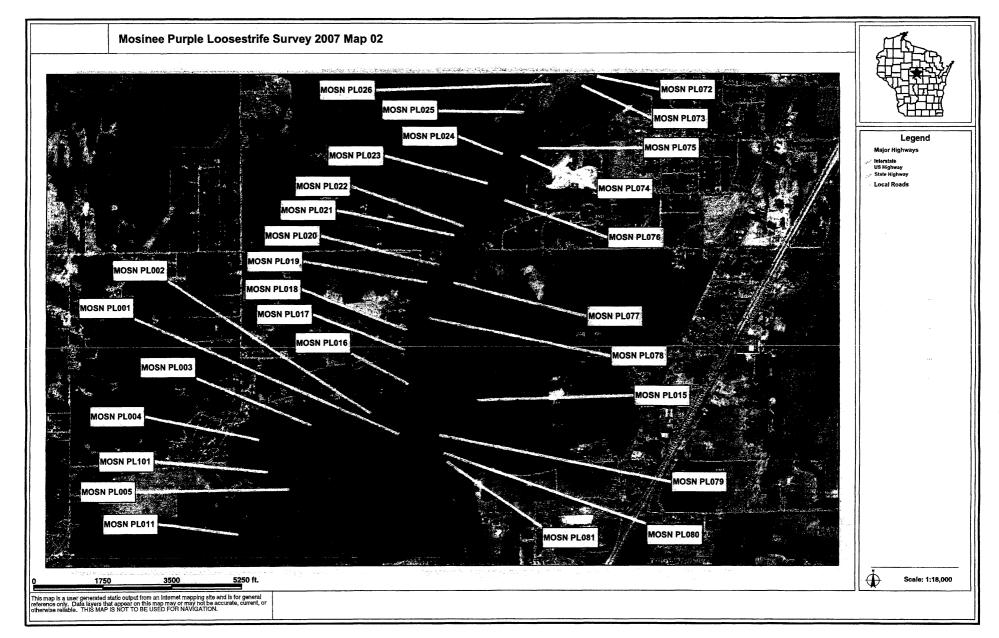
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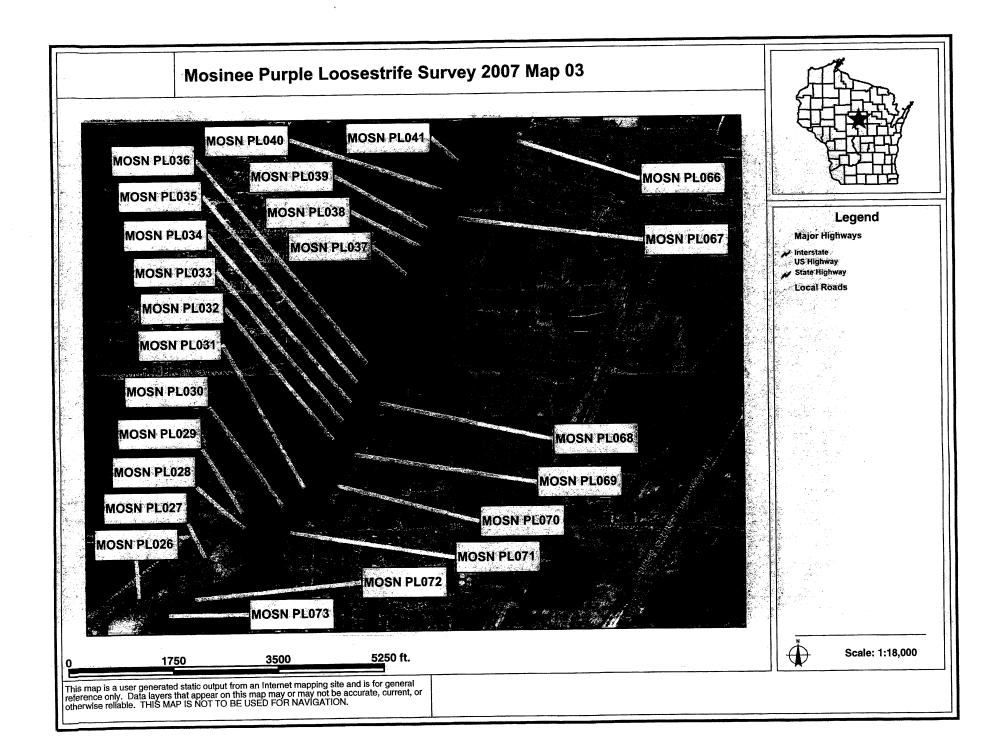
7/16/07 - 7/24/07 & 8/9/07

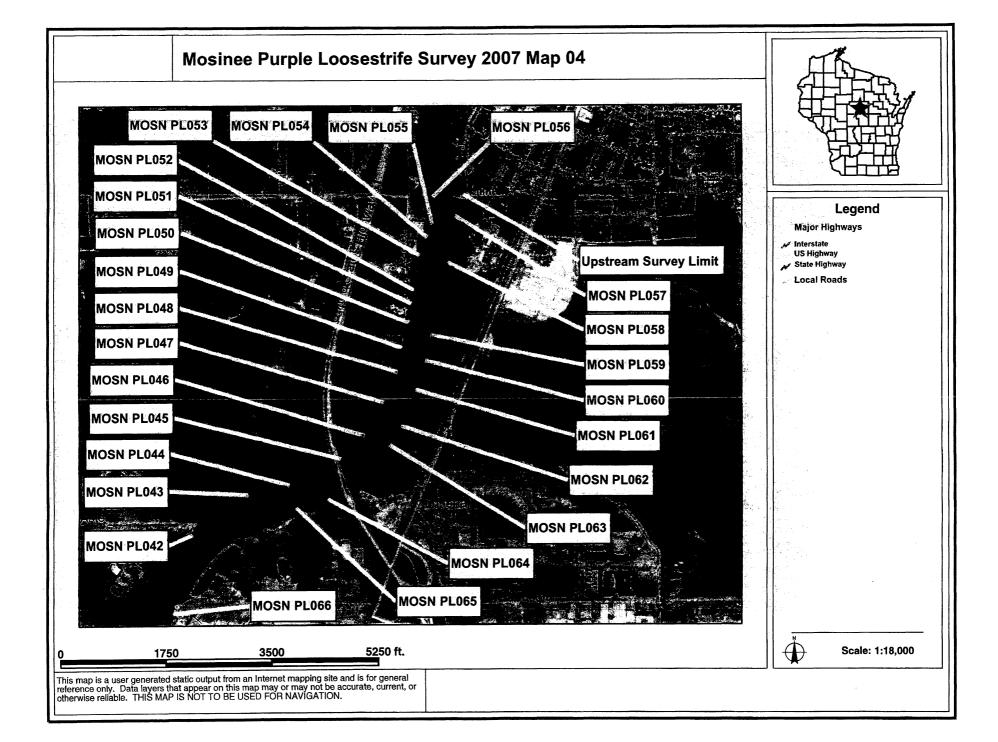
Crew:

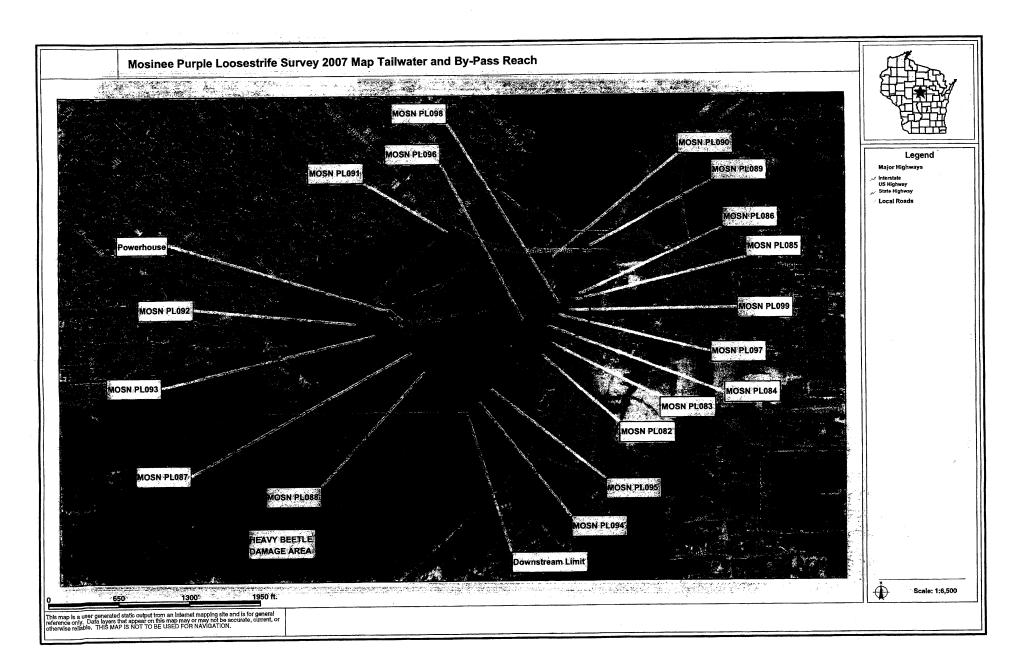
GPS point	Latitude	Longitude	Plant Height	Stand Area	Beetle Damage	Comments
MOSN PL088	N44° 47.246'	W89° 42.061'	4'	1 Plant	None	First observed in 2007. All plants pulled in 2007.
MOSN PL089	N44° 47.427'	W89° 41.727'	2' - 4'	5 Plants	Unknown	First observed in 2007. Plant in rocks below bridge. Could
	•	Ý				not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL090	N44° 47.407'	W89° 41.813'	4'	1 Plant	Unknown	First observed in 2007. Plants in rocks below bridge. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL091	N44° 47.447'	W89° 42.014'	6'	2 Plants	Unknown	First observed in 2007. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL092	N44° 47.309'	W89° 42.217'	4' - 5'	2 Plants	Unknown	First observed in 2007. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL093	N44° 47.296′	W89° 42.165'	5'	1 Plant	Unknown	First observed in 2007. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL094	N44° 47.195'	W89° 41.952'	5'	1 Plant	Unknown	First observed in 2007. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL095	N44° 47.215'	W89° 41.919'	5'	1 Plant		First observed in 2007. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL096	N44° 47.319'	W89° 41.862'	4' - 6'	3 Plants	Unknown	First observed in 2007. Could not get close enough to see if there was beetle damage. No treatment in 2007.
MOSN PL097	N44° 47.330'	W89° 41.789'	3' - 5'	~60' x 40' ~200 Plants	Light	First observed in 2007. Shake test produced beetles. No treatment in 2007.
MOSN PL098	N44° 47.338'	W89° 41.784'	2' - 6'	~100' x 40' ~50 Plants	Light	First observed in 2007. On island. No treatment in 2007.
MOSN PL099	N44° 47.327'	W89° 41.764'	2' - 4'	10 Plants		First observed in 2007. Shake test produced beetles. No treatment in 2007.
MOSN PL100	N44° 48.856'	W89° 42.476'	2' - 8'	~25' - 30' diameter island	Heavy	First observed in 2007. On 8/9/07, island had all phases of beetle damage from healthy, blooming plants to dead plants. Photos & video(?). No treatment in 2007.
MOSN PL101	N44° 47.998'	W89° 43.769'	2' - 9'	>1000 Plants		First observed in 2007. Plants at the west end of Cemetery Slough create a mosaic pattern of medium to very heavy coverage. No beetle damage observed. observation point was at Cty Hwy B where a snowmobile trail enters the marsh as indicated by trail signs. Visited on 8/9/07. Photos & video. No treatment in 2007.











### LARGE-FORMAT IMAGES

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Number of page(s) in set:	

20080321-0058 FERC	PDF	(Unofficial)	03/14/2008
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APPENDIX B

Eurasian Water Milfoil & Curly-leaf Pondweed Survey Results

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900

County: Marathon
Crew: RAL/CTM

EWM = Eurasian Water Milfoil

CLP = Curly-leaf Pondweed

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

N/A = Not Accessible

W = Woody Debris

Datum: WGS84 NWM = Northern Water Milfoil

G = Gravel R = Root Ma Rk = Rock

M = Muck

S = Sand

EWM CLP Longitude Depth Sediment Method Comments Point Lattitude 1 N44.80805825 W89.72318065 М N/A Shallow Muck Pole Rake 2 N44.80873111 W89.72222899 1 0 0 No Weeds М 3 N44.80805595 W89.72223223 1 Pole Rake 0 0 No Weeds М 4 N44.80738079 W89.72223547 2 Pole Rake 0 0 No Weeds М 5 N44.80737848 W89.72128706 2 М Pole Rake 0 0 No Weeds 6 N44.80670332 W89.72129031 2 Pole Rake 0 No Weeds М 0 7 N44.80805132 W89.72033539 N/A Shallow Muck М 8 N44.80737616 W89.72033865 2 Pole Rake 0 0 No Weeds М 9 N44.806701 W89.72034191 3 Pole Rake 0 No Weeds М 0 10 N44.80872415 W89.7193837 1 М Pole Rake 0 0 No Weeds 11 N44.80737384 W89.71939024 3 W/M Pole Rake 0 0 No Weeds 12 N44.80669868 W89.71939352 3 М Pole Rake 0 0 No Weeds 13 N44.80939698 W89.71843198 N/A Shallow Muck M N/A Shallow Muck 14 N44.80872182 W89.71843527 M No Weeds 15 N44.8073715 W89.71844184 3 W Pole Rake 0 16 N44.80669634 W89.71844512 3 W/S Pole Rake 0 0 No Weeds N/A Shallow Muck 17 N44.80939464 W89.71748354 М 4 Pole Rake ō 0 No Weeds 18 N44.80736916 W89.71749343 M No Weeds 19 N44.806694 W89.71749672 3 W/S Pole Rake 0 0 No Weeds 20 N44.80804197 W89.71654171 4 W/M Pole Rake 0 0 21 N44.80736681 W89.71654502 4 W/M Pole Rake 0 0 No Weeds No Weeds 22 N44.80669165 W89.71654833 2 W/S Pole Rake 0 0 23 N44 80871477 W89.71558998 4 Pole Rake ō 0 No Weeds R 24 N44 80803961 W89.71559329 Pole Rake 0 0 No Weeds 5 М 25 N44.80736445 W89.71559661 No Weeds 5 М Pole Rake 0 0 26 N44 81006272 W89.71463489 3 Pole Rake 0 0 No Weeds S 27 N44.80938756 W89.71463822 W 0 No Weeds 5 Pole Rake 0 28 N44.8087124 W89.71464155 5 М Pole Rake 0 0 No Weeds No Weeds 29 N44.80803725 W89.71464488 5 M/S Pole Rake 0 0 30 N44.81073551 W89.7136831 0 0 No Weeds 5 Ŵ Pole Rake 0 0 No Weeds 31 N44.81006035 W89.71368644 5 M Pole Rake 0 0 No Weeds 32 N44.80938519 W89.71368978 5 М Pole Rake 0 0 No Weeds 33 N44.80871003 W89.71369312 4 W/M Pole Rake 34 N44.80803487 W89.71369646 3 Pole Rake 0 0 No Weeds S 0 0 No Weeds 35 N44.81140828 W89.71273128 5 W Pole Rake W/S 0 0 No Weeds 36 N44.81073312 W89.71273463 5 Pole Rake 0 0 No Weeds 37 N44.81005797 W89.71273799 4 W Pole Rake 0 0 No Weeds 38 N44.80938281 W89.71274134 S Pole Rake 0 No Weeds 39 N44.80870765 W89.71274469 2 S Pole Rake 0 40 N44.81208105 W89.71177945 6 W Pole Rake 0 0 No Weeds 41 N44.81140589 W89.71178281 6 М Pole Rake 0 0 No Weeds 42 N44.81073074 W89.71178617 3 S/W Pole Rake 0 0 No Weeds 43 N44.81005558 W89.71178953 1 М Pole Rake 0 0 No Weeds 44 N44.80938042 W89.7117929 N/A Land 45 N44 80870526 W89.71179626 3 М Pole Rake 0 0 No Weeds 46 N44.81207865 W89.71083096 Pole Rake 0 0 No Weeds 6 М 47 N44.8114035 W89.71083434 4 М Pole Rake 0 0 No Weeds 48 N44.81072834 W89.71083771 Pole Rake 0 0 No Weeds 1 М 49 N44 80937802 W89.71084446 2 Pole Rake 0 0 No Weeds М 50 N44 80870286 W89.71084783 1 S Pole Rake 0 0 No Weeds 51 N44 81275141 W89.70987909 S Pole Rake 0 0 No Weeds 6 52 N44 81207625 W89.70988248 6 W Pole Rake 0 0 No Weeds 53 N44 80937562 W89.70989602 2 М Pole Rake 0 0 No Weeds N/A No Reading 54 N44.81274899 W89.7089306 7 Pole Rake 0 0 No Weeds 55 N44 81207384 W89.70893399 3 S/W 0 No Weeds 56 N44 8093732 W89.70894758 2 Pole Rake 0 Μ N/A No Reading 57 N44.81274657 W89.7079821 10

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900 County: Marathon

S = Sand EWM = Eurasian Water Milfoil G = Gravel

Crew: RAL/CTM

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

N/A = Not Accessible

W = Woody Debris

M = Muck

CLP = Curly-leaf Pondweed

Denit	Datum:	WGS84			Northern Wa		Rk = Ro	ck	
SS   N44.80937078   W89.70799914   -	<b>Point</b>	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
60 N44.81274414 W89.70703361 9 N/A No Reading 61 N44.81193938 W89.70703702 10 N/A No Reading 62 N44.81139383 W89.70704044 12 N/A No Reading 63 N44.80059129 W89.70709611 4 W Pole Rake 0 O No Weeds 64 N44.79991613 W89.70709613 8 N/A No Reading 65 N44.79924079 W89.7070195 8 N/A No Reading 65 N44.8119139 W89.70601996 7 N/A No Reading 65 N44.8119139 W89.70613996 7 N/A No Reading 65 N44.8012840 1 W89.70613996 7 N/A No Reading 65 N44.8012840 1 W89.70613996 7 N/A No Reading 65 N44.8012840 1 W89.70614832 7 N/A No Reading 65 N44.8012840 1 W89.70614832 3 S Pole Rake 0 No No Weeds 7 No N44.8005885 W89.70614832 3 S Pole Rake 0 No No Weeds 7 No N44.79896337 W89.70615025 5 S Pole Rake 0 No No Weeds 7 No N44.79896337 W89.7061507 7 N/A No Reading 7 No N44.8058637 W89.7061507 7 N/A No Reading 7 No N44.8012863 W89.7061507 7 N/A No Reading 7 No N44.812641 W89.7061508 3 P N/A No Reading 7 No N44.812641 W89.7061605 9 N/A No Reading 7 No N44.812641 W89.7061408 3 P N/A No Reading 7 No N44.812641 W89.7061406 3 M Pole Rake 0 No No Weeds 7 No N44.8138696 W89.7061496 1 O N/A No Reading 7 No N44.8138696 W89.7061496 1 O N/A No Reading 7 No N44.8138696 W89.7061496 1 O N/A NO Reading 7 No N44.8138696 W89.7061496 1 O N/A NO Reading 7 No N44.8138696 W89.7061965 4 W/M Pole Rake 0 No No Weeds 7 No No Weeds 7 No N44.8138696 W89.7061965 4 W/M Pole Rake 0 No No Weeds 8 No N44.8012867 W89.7061965 4 W/M Pole Rake 0 No No Weeds 8 No N44.8012867 W89.7061965 4 W/M Pole Rake 0 No No Weeds 8 No N44.8012867 W89.7061965 4 W/M Pole Rake 0 No No Weeds 9 No No Weeds 9 No N44.8012867 W89.7061965 5 W Pole Rake 0 No No Weeds 9 No No Weeds 9 No N44.8012867 W89.7061961 5 W Pole Rake 0 No No Weeds 9 No	58	N44.81207141	W89.70798551	9	-	-	-	-	N/A No Reading
61 N.4. 81206898 W89.70703702	59	N44.80937078	W89.70799914	-	_	-	-		
61 N.4. 81206898 W89.70703702	60	N44.81274414	W89.70703361	9	-	1	-	-	N/A No Reading
62 NM4.81139383 W89.70704044				10	-	-	-	-	
63) M.4.80059129 W89.70709513				12	_	-	-	-	
64 NA 479991613 W89.70709853 8 NA No Reading 65 NA4.79924097 W89.70710195 8 NA No Reading 66 NA4.81139139 W89.70609197 10 NA No Reading 67 NA4.81071623 W89.70613996 7 NA No Reading 68 NA4.80139317 W89.70613998 7 NA No Reading 68 NA4.80139317 W89.70613939 7 NA No Reading 68 NA4.80139317 W89.70613939 7 NA No Reading 70 NA4.80088885 W89.7061652 3 S Pole Rake 0 0 No Weeds 71 NA4.79991369 W89.70615367 5 W Pole Rake 0 0 No Weeds 72 NA4.79991369 W89.70615367 5 W Pole Rake 0 0 No Weeds 73 NA4.79866337 W89.7061567 7 NA No Reading 74 NA4.7988821 W89.7061657 7 NA No Reading 75 NA4.8120641 W89.70514000 3 M Pole Rake 0 0 No Weeds 75 NA4.8120641 W89.70514000 3 M Pole Rake 0 0 No Weeds 77 NA4.81071379 W89.7051400 3 M Pole Rake 0 0 No Weeds 77 NA4.81071379 W89.7051496 10 NA No Reading 78 NA4.8120641 W89.7051490 10 NA No Reading 78 NA4.8120641 W89.7051490 10 NA No Reading 79 NA4.8013673 W89.7051965 4 WWM Pole Rake 0 No Weeds 78 NA4.80136673 W89.7051965 4 WWM Pole Rake 0 No Weeds 79 NA4.8013673 W89.7051965 4 WWM Pole Rake 0 No Weeds 8 NO NA4.8013673 W89.7051965 4 WW Pole Rake 0 No Weeds 8 NO NA4.8013675 W89.70519690 4 M Pole Rake 0 No Weeds 8 NO NA4.8013675 W89.70519852 4 W Pole Rake 0 No Weeds 8 NA4.79856093 W89.70520844 1 S Pole Rake 0 No Weeds 8 NA4.79856093 W89.70520844 1 S Pole Rake 0 No Weeds 8 NA4.79856093 W89.70520844 1 S Pole Rake 0 No Weeds 8 NA4.79856093 W89.70520844 1 S Pole Rake 0 No Weeds 8 NA4.79856093 W89.70520844 1 S Pole Rake 0 No Weeds 8 NA4.8107133 W89.7051955 5 W Pole Rake 0 No Weeds 8 NA4.8107133 W89.7051955 5 W Pole Rake 0 No Weeds 9 NA4.80060943 W89.705208715 7 NA No Reading 9 NA4.80060943 W89.70320915 7 NA No Reading 9 NA4.80060943 W89.70320915 7 NA No Reading 9 NA4.80060943 W89					W	Pole Rake	0		
65 N.44.91391309 WB 970619139 10 N./A No Reading 66 N.44.81139139 WB 97.0609197 10 N./A No Reading 67 N.44.81071623 WB 97.0609197 10 N./A No Reading 68 N.44.80139317 WB 97.0613996 7 N./A No Reading 70 N.44.80158401 WB 97.0613996 7 N./A No Reading 70 N.44.80158401 WB 97.0614632 3 S Pole Rake 0 O No Weeds 71 N.44.79923853 WB 97.0615025 5 S Pole Rake 0 O No Weeds 72 N.44.79923853 WB 97.0615035 7 S W Pole Rake 0 O No Weeds 72 N.44.79823853 WB 97.0615035 7 S W Pole Rake 0 O No Weeds 73 N.44.7988821 WB 97.061503 9 N./A No Reading 74 N.44.8103840 WB 97.061503 9 N./A No Reading 75 N.44.81138895 WB 97.061403 5 S S Pole Rake 0 O No Weeds 76 N.44.81138895 WB 97.0614006 3 M Pole Rake 0 O No Weeds 77 N.44.81073179 WB 97.0614006 1 D N./A No Reading 78 N.44.80261188 WB 97.0514804 10 N./A No Reading 78 N.44.8013673 WB 97.0514804 10 N./A No Reading 78 N.44.8013673 WB 97.0518921 6 M Pole Rake 0 O No Weeds 79 N.44.8013673 WB 97.0518951 6 M Pole Rake 0 O No Weeds 80 N.44.801261517 WB 97.0519508 4 M Pole Rake 0 O No Weeds 81 N.44.80058641 WB 97.0519508 4 M Pole Rake 0 O No Weeds 82 N.44.7988571 WB 97.0519508 4 M Pole Rake 0 O No Weeds 83 N.44.79788577 WB 97.0521927 5 W Pole Rake 0 O No Weeds 84 N.44.79721061 WB 97.0521951 7 N./A No Reading 85 N.44.81026165 WB 97.0521951 7 N./A No Reading 86 N.44.81071133 WB 97.0521951 7 N./A No Reading 87 N.44.81026165 WB 97.0521951 5 W Pole Rake 0 O No Weeds 87 N.44.81138649 WB 97.0521951 7 N./A No Reading 88 N.44.81071133 WB 97.0521951 7 N./A No Reading 99 N.44.81071208 WB 97.0521951 7 N./A No Reading 90 N.44.8107133 WB 97.0521951 7 N./A No Reading 91 N.44.8107133 WB 97.0521951 7 N./A No Reading 91 N.44.8107133 WB 97.0521951 5 W Pole Rake 0 O No Weeds 91 N.44.8107133 WB 97.0521951 5 W Pole Rake 0 O No Weeds 91 N.44.8107133 WB 97.0521951 5 W Pole Rake 0 O No Weeds 91 N.44.81079887 WB 97.0525694 - W Pole Rake 0 O No Weeds 91 N.44.8103643 WB 97.0525694 - W Pole Rake 0 O No Weeds 91				8	_	-	-	_	
66 N44.81139139 W89.70609197 10 N/A No Reading   67 N44.8017623 W89.7060954 10 N/A No Reading   68 N44.80193917 W89.70613996 7 N/A No Reading   69 N44.80126401 W89.70614339 7 N/A No Reading   69 N44.80126401 W89.70614339 7 N/A No Reading   69 N44.80126401 W89.70614339 7 N/A No Reading   70 N44.801288861 W89.70615025 5 S Pole Rake   71 N44.79991369 W89.70615025 5 S Pole Rake   72 N44.79923839 W89.70615027 5 W Pole Rake   73 N44.79856337 W89.70615071 7 N/A No Reading   74 N44.798821 W89.7051406 3 M Pole Rake   75 N44.8120841 W89.7051406 3 M Pole Rake   76 N44.8138895 W89.7051438 5 S Pole Rake   77 N44.81071379 W89.70514894 10 N/A No Reading   78 N44.81071379 W89.7051821 6 M Pole Rake   79 N44.80126157 W89.7051821 6 M Pole Rake   79 N44.8012617 W89.7051824 6 M Pole Rake   70 No Weeds   78 N44.8012617 W89.70519858 4 M Pole Rake   70 No Weeds   78 N44.8012617 W89.70519508 4 M Pole Rake   70 No Weeds   71 No Weeds   71 No Weeds   71 No Weeds   72 No Weeds   73 No Weeds   74 No Weeds   75 No Weeds   75 No Weeds   76 No Weeds   77 No Weeds   77 No Weeds   78 No Weeds   78 No Weeds   79 No Weeds   79 No Weeds   79 No Weeds   70 No Weeds   71 N					_	_	-	_	
67 N.4. 81071623 W89.7060954 10 N.I.A No Reading   68 N.4.4 90193917 W89.70613996 7 N.I.A No Reading   69 N.4.4 90193917 W89.70613939 7 N.I.A No Reading   70 N.4.4.80058886 W89.70614682 3 S Pole Rake   70 N.4.4.80058886 W89.70615025 5 S Pole Rake   71 N.4.4.79981399 W89.70615025 5 S Pole Rake   72 N.4.7.9981399 W89.70615025 5 S Pole Rake   73 N.4.7.9981399 W89.70615025 5 S Pole Rake   74 N.4.7.9981399 W89.70615037 5 W Pole Rake   75 N.4.8.1.20641 W89.7061503 9 N.I.A No Reading   76 N.4.8.1.138895 W89.7051406 3 M Pole Rake   76 N.4.8.1.138895 W89.7051435 5 S Pole Rake   76 N.4.8.1.138895 W89.7051435 5 S Pole Rake   77 N.4.4.9.1071379 W89.70514894 10 N.I.A No Reading   78 N.4.4.9.1071379 W89.70518981 10 N.I.A No Reading   78 N.4.8.19198673 W89.7051896   78 N.4.8.19198673 W89.7051896   78 N.4.8.19198673 W89.7051896   78 N.4.8.19198673 W89.70519165   78 N.4.8.19198673 W89.7051985   78 N.4.8.19198673 W89.7051985   78 N.4.8.19198673 W89.7051985   78 N.4.8.19198673 W89.7051986   79 N.4.8.19198673 W89.7051986   79 N.4.8.19198673 W89.7051986   79 N.4.8.19198673 W89.7051986   79 N.4.8.191986989 W89.7051985   70 N.7.8.191986989 W89.7051986   70 N.7.8.191986989 W89.7051986   70 N.7.8.191986989 W89.7051985   70 N.7.8.191986989 W89.7051985   70 N.7.8.191986989 W89.7051998   70 N.7.8.191986989 W89.7051991   70 N.7.8.191986989 W89.7051991   70 N.7.8.191986989 W89.7051915   70 N.7.8.191986989 W89.7051915   70 N.7.8.191986989 W89.70419157   70 N.7.8.191986989 W89.70419157   70 N.7.8.191986989 W89.70419157   70 N.7.8.191986989 W89.70419150   70 N.7.8.						_	-	_	
68 N.44.90193917 W89.70613996 7 N.I.A No Reading 9 N.44.90158401 W89.70614393 7 N.I.A No Reading 70 N.44.80058885 W89.70614682 3 S Pole Rake 0 0 No Weeds 71 N.44.79991399 W89.70615025 5 S Pole Rake 0 0 No Weeds 72 N.44.79991399 W89.70615027 5 W Pole Rake 0 0 No Weeds 73 N.44.79958337 W89.70615071 7 N.I.A No Reading 74 N.44.7998821 W89.70616053 9 N.I.A No Reading 75 N.44.8120841 W89.70514006 3 M Pole Rake 0 0 No Weeds 76 N.44.81138895 W89.70514964 10 N.I.A No Reading 77 N.44.8017379 W89.70514964 10 N.I.A No Reading 78 N.44.80261188 W89.70518821 6 M Pole Rake 0 0 No Weeds 79 N.44.80193673 W89.70519508 4 M Pole Rake 0 0 No Weeds 80 N.44.80126157 W89.70519508 4 M Pole Rake 0 0 No Weeds 81 N.44.800568641 W89.70519508 4 M Pole Rake 0 0 No Weeds 82 N.44.79856093 W99.70520844 1 S Pole Rake 0 0 No Weeds 83 N.44.79785070 W99.70520844 1 S Pole Rake 0 0 No Weeds 84 N.44.79721061 W89.70521227 5 W Pole Rake 0 No Weeds 85 N.44.79856069 W99.70520844 1 S Pole Rake 0 No Weeds 86 N.44.81206165 W89.7051950 5 W Pole Rake 0 No Weeds 86 N.44.81206166 W89.70519157 4 W Pole Rake 0 No Weeds 87 N.44.81138649 W89.70521915 5 W Pole Rake 0 No Weeds 88 N.44.81071379 W89.70521927 5 W Pole Rake 0 No Weeds 88 N.44.81071379 W89.70521927 5 W Pole Rake 0 No Weeds 89 N.44.80260943 W89.70419157 4 W Pole Rake 0 No Weeds 80 N.44.81206165 W89.70419157 4 W Pole Rake 0 No Weeds 80 N.44.81206166 W89.70419157 4 W Pole Rake 0 No Weeds 80 N.44.81206166 W89.70419157 4 W Pole Rake 0 No Weeds 80 N.44.81206166 W89.7041984 10 N.I.A No Reading 81 N.44.8107133 W89.7042960 3 No Weeds 80 N.44.8108591 W89.70426402 3 M Pole Rake 0 No Weeds 80 N.44.8108591 W89.70426402 3 M Pole Rake 0 No Weeds 90 N.44.803856 W89.7032656 7 N.I.A No Reading 91 N.44.8038586 W89.7033655 7					_	_	_	_	
69 NA4.80126401 W99.70614339 7 N/A No Reading 70 NA4.80058985 W99.70614582 3 S Pole Rake 0 0 No Weeds 71 NA4.79991369 W99.70615025 5 S Pole Rake 0 0 No Weeds 72 NA4.79991369 W99.7061507 5 W Pole Rake 0 0 No Weeds 73 NA4.79893839 W99.7061507 5 W Pole Rake 0 0 No Weeds 74 NA4.79788821 W99.7061507 7 N/A No Reading 74 NA4.79788821 W99.7061605 9 N/A No Reading 75 NA4.8120641 W99.70514006 3 M Pole Rake 0 0 No Weeds 76 NA4.81138895 W99.7051405 5 S Pole Rake 0 0 No Weeds 77 NA4.81071379 W99.70514064 10 N/A No Reading 77 NA4.81071379 W99.70514964 10 N/A No Reading 78 NA4.80193673 W99.70514964 10 N/A No Reading 79 NA4.80193673 W99.7051950 4 M Pole Rake 0 No No Weeds 79 NA4.80193673 W99.7051950 4 M Pole Rake 0 No No Weeds 80 NA4.80126157 W99.7051950 4 M Pole Rake 0 No No Weeds 81 NA4.80261184 W99.70519852 4 W Pole Rake 0 No No Weeds 82 NA4.79788577 W99.70520884 1 S Pole Rake 0 No No Weeds 83 NA4.79788577 W99.7052084 1 S Pole Rake 0 No No Weeds 83 NA4.79788577 W99.70521227 5 W Pole Rake 0 No No Weeds 84 NA4.79721061 W89.70521915 5 W Pole Rake 0 No No Weeds 85 NA4.79721061 W89.70521915 5 W Pole Rake 0 No No Weeds 86 NA4.81206165 W99.70419157 4 W Pole Rake 0 No No Weeds 86 NA4.81206165 W99.70419157 4 W Pole Rake 0 No No Weeds 86 NA4.81206165 W99.70419157 4 W Pole Rake 0 No No Weeds 90 NA4.80138427 W99.70424333 4 M/W Pole Rake 0 No No Weeds 90 NA4.80138427 W99.70424333 4 M/W Pole Rake 0 No No Weeds 90 NA4.80138427 W99.70424333 4 M/W Pole Rake 0 No No Weeds 90 NA4.80138427 W99.70424333 4 M/W Pole Rake 0 No No Weeds 90 NA4.80138437 W99.70424333 4 M/W Pole Rake 0 No No Weeds 90 NA4.80193427 W99.70424079 7 N/A No Reading 99 NA4.8026093 W99.70424067 3 M Pole Rake 0 No No Weeds 90 NA4.80193427 W99.70424080 3 M Pole Rake 0 No No Weeds 90 NA4.80193427 W99.70425069 7 N/A No Reading 99 NA4.8026093 W99.70425069 7 N/A No Reading 99 NA4.802600697 W99.70425069 7 N/A No Reading 99 NA4.802600697 W99.70325659 7 N/A No Reading 99 NA4.802600697 W99.70325651 7 -						-	<del>-</del>		
TO   MAL 80058886   W89.70614682   3   S   Pole Rake   0   0   No Weeds					_	-		_	
71   N44,79991369   W99,70615025   5   S   Pole Rake   0   0   No Weeds   72   N44,79856337   W89,70615057   5   W   Pole Rake   0   0   No Weeds   73   N44,79856337   W89,70616053   9   -   -   N/A No Reading   74   N44,79788821   W89,70514005   3   M   Pole Rake   0   0   No Weeds   75   N44,81138895   W89,70514056   5   S   Pole Rake   0   0   No Weeds   76   N44,81138895   W89,70514956   5   S   Pole Rake   0   0   No Weeds   77   N44,80173179   W89,70514964   10   -   -   -   N/A No Reading   78   N44,80261188   W89,70518821   6   M   Pole Rake   0   0   No Weeds   79   N44,80138673   W89,70519165   4   W/M   Pole Rake   0   0   No Weeds   80   N44,801261175   W89,70519505   4   W   Pole Rake   0   0   No Weeds   81   N44,80058641   W89,70519852   4   W   Pole Rake   0   0   No Weeds   82   N44,79788577   W89,70512084   1   S   Pole Rake   0   0   No Weeds   83   N44,7978577   W89,70521227   5   W   Pole Rake   0   0   No Weeds   84   N44,79721061   W89,70521915   5   W   Pole Rake   0   0   No Weeds   85   N44,81181659   W89,70519157   4   W   Pole Rake   0   0   No Weeds   86   N44,81181659   W89,70419157   4   W   Pole Rake   0   0   No Weeds   87   N44,81181669   W89,70419802   7   -   -   N/A No Reading   88   N44,80171133   W89,70419848   10   -   -   N/A No Reading   88   N44,80175911   W89,70424393   4   W   Pole Rake   0   0   No Weeds   89   N44,80193427   W89,70424938   5   M   Pole Rake   0   0   No Weeds   90   N44,80193427   W89,7042402   3   M   Pole Rake   0   0   No Weeds   91   N44,80193427   W89,7042402   3   M   Pole Rake   0   0   No Weeds   92   N44,79788332   W89,70426402   3   M   Pole Rake   0   0   No Weeds   93   N44,79788578   W89,70325001   9   -   -   N/A No Reading   94   N44,8019341   W89,7032686   5   M   Pole Rake   0   0   No Weeds   95   N44,8019341   W89,7032686   7   -   -   N/A No Reading   96   N44,8019341   W89,7032686   7   -   -   N/A No Reading   97   N44,8019341   W89,70330589   1   M   Pole Rake   0   0   No Weeds   98   N44,80193181   W89,7033086   3   M   Pol						Pole Rake		0	
72   N44.79923853   W89.70615057   7									
73 IN44.79856337   W89.7061671   7   -   -   -   N/A No Reading   74   N44.7978821   W89.70516053   9   -   -   -   N/A No Reading   75   N44.8120641   W89.70514036   3   M   Pole Rake   0   0   No Weeds   76   N44.81138895   W89.70514335   5   S   Pole Rake   0   0   No Weeds   77   N44.81071379   W89.70514336   10   -   -   -   N/A No Reading   78   N44.80173137   W89.7051821   6   M   Pole Rake   0   0   No Weeds   79   N44.8013673   W89.70519508   4   M   Pole Rake   0   0   No Weeds									
74   N44.7978821   W89.70516053   9						- TOIC TRAKE	<u> </u>		
T5   N44.8120641   W89.70514006   3   M   Pole Rake   0   0   No Weeds								<u> </u>	
T6   M44.81138895   W89.7051435   5   S   Pole Rake   0   0   No Weeds							<u> </u>	<u> </u>	
77 N44.81071379 W89.70518934 10 N/A No Reading 78 N44.80261188 W89.7051965 4 W/M Pole Rake 0 0 No Weeds 80 N44.80126157 W89.70519908 4 M Pole Rake 0 0 No Weeds 81 N44.80126157 W89.70519985 4 W Pole Rake 0 0 No Weeds 81 N44.8058641 W89.70519852 4 W Pole Rake 0 0 No Weeds 82 N44.7985603 W89.70520884 1 S Pole Rake 0 0 No Weeds 83 N44.7985603 W89.70520884 1 S Pole Rake 0 0 No Weeds 84 N44.7985677 W89.70521227 5 W Pole Rake 0 0 No Weeds 85 N44.7985605 W89.70521971 7 N/A No Reading 86 N44.81266166 W89.70521971 5 W Pole Rake 0 0 No Weeds 86 N44.81266166 W89.70521971 4 W Pole Rake 0 0 No Weeds 87 N44.81138649 W89.70419157 4 W Pole Rake 0 0 No Weeds 88 N44.81071133 W89.7041988 10 N/A No Reading 89 N44.80260943 W89.70429386 5 M Pole Rake 0 No Weeds 90 N44.80193427 W89.70424678 3 S Pole Rake 0 No Weeds 91 N44.80125911 W89.70424678 3 S Pole Rake 0 No Weeds 92 N44.79786332 W89.70424602 3 M Pole Rake 0 No Weeds 93 N44.7978033 W89.70427092 7 N/A No Reading 94 N44.80125913 W89.704246702 3 M Pole Rake 0 No Weeds 95 N44.8107887 W89.70427092 7 N/A No Reading 96 N44.8107887 W89.704246702 3 M Pole Rake 0 No Weeds 97 N44.8107887 W89.7042565 7 N/A No Reading 98 N44.80798585 W89.70325655 7 N/A No Reading 99 N44.807985878 W89.70325655 7 N/A No Reading 99 N44.80935856 W89.70325655 7 N/A No Reading 90 N44.80935856 W89.70335655 7 N/A No Reading 90 N44.80935856 W89.70335657 4 W/M Pole Rake 0 No Weeds 90 N44.80935856 W89.70335657 4 W/M Pole Rake 0 No Weeds 90 N44.80935856 W89.70335655 7 N/A No Reading 90 N44.80935856 W89.70335655 7 N/A No Reading 90 N44.8093666 W89.7033585 3 M Pole Rake 0 No Weeds 90 N44.8093666 W89.70335655 7 N/A No Reading 90 N44.8096667 W89.70335655 7 N/A No Reading 100 N44.80193181 W89.70330855 3 M Pole Rake 0 No Weeds 101 N44.80193181 W89.70330855 3 M Pole Rake 0 No No Weed									
78 N44.80261188 W89.70518821 6 M Pole Rake 0 0 No Weeds 79 N44.80126157 W89.70519165 4 W/M Pole Rake 0 0 No Weeds 80 N44.80126157 W89.70519852 4 W Pole Rake 0 0 No Weeds 81 N44.80058641 W89.70519852 4 W Pole Rake 0 0 No Weeds 82 N44.79856093 W89.70520884 1 S Pole Rake 0 0 No Weeds 83 N44.79788577 W89.70521227 5 W Pole Rake 0 0 No Weeds 83 N44.7978101 W89.70521571 7 N/A No Reading 84 N44.79721061 W89.70521915 5 W Pole Rake 0 0 No Weeds 86 N44.81206165 W89.7051915 7 N/A No Reading 86 N44.81206165 W89.70419157 4 W Pole Rake 0 0 No Weeds 87 N44.81138649 W89.70419157 4 W Pole Rake 0 0 No Weeds 88 N44.81138649 W89.70419157 7 N/A No Reading 89 N44.80126043 W89.70419848 10 N/A No Reading 89 N44.80126043 W89.70424933 4 M/W Pole Rake 0 No No Weeds 90 N44.80125911 W89.70424333 4 M/W Pole Rake 0 No No Weeds 91 N44.80125911 W89.70424333 4 M/W Pole Rake 0 No No Weeds 92 N44.7978332 W89.70424678 3 S Pole Rake 0 No No Weeds 93 N44.7978332 W89.70426402 3 M Pole Rake 0 No No Weeds 94 N44.79585784 W89.70426477 3 S Pole Rake 0 No No Weeds 95 N44.79585784 W89.7042655 7 N/A No Reading 96 N44.81138403 W89.70325655 7 N/A No Reading 97 N44.81070887 W89.70325601 9 N/A No Reading 98 N44.80260987 W89.70325601 9 N/A No Reading 99 N44.807988784 W89.70325601 9 N/A No Reading 90 N44.80798868 W89.70325601 9 N/A No Reading 91 N44.79986808 W89.70325601 9 N/A No Reading 91 N44.79986808 W89.70330589 1 M Pole Rake 0 No Weeds 91 N44.79986808 W89.70330589 1 M Pole Rake 0 No Weeds 91 N44.79986808 W89.70330589 1 M Pole Rake 0 No Weeds 91 N44.79986808 W89.70332664 - M N/A No Reading 91 N44.80936866 W89.70331577 4 W/M Pole Rake 0 No Weeds 91 N44.7998064 W89.70325604 - M N/A No Reading 91 N44.80936860 W89.70331577 4 W/M Pole Rake 0 No Weeds 91 N44.80936860 W89.7033165 5 M Pole Rake 0 No Weeds 91 N44.80868093 W89.70332661 7 N/A No Reading 91 N44.80968089 W89.70331655 9 N/A No Reading 91 N44.80868089 W89.70334669 5 M Pole Rake 0 No Weeds					- 3	Fole Nake	0	<u> </u>	
T9   M44.80193673   W89.70519165					- NA	Polo Poko	-	-	
80   N44.80126157   W89.70519508									
81   M44.80058641   W89.70519852									
82 N44.79856093 W89.70520884 1 S Pole Rake 0 0 No Weeds 83 N44.79788677 W89.70521227 5 W Pole Rake 0 0 No Weeds 84 N44.79721061 W89.70521571 7 N/A No Reading 85 N44.79623545 W89.70521915 5 W Pole Rake 0 0 No Weeds 86 N44.81206165 W89.70419157 4 W Pole Rake 0 0 No Weeds 87 N44.81138649 W89.70419502 7 N/A No Reading 88 N44.81206193 W89.70419502 7 N/A No Reading 89 N44.80171133 W89.70419848 10 N/A No Reading 99 N44.80193427 W89.70423985 5 M Pole Rake 0 0 No Weeds 91 N44.80193427 W89.7042433 4 M/W Pole Rake 0 0 No Weeds 91 N44.80126914 W89.70424678 3 S Pole Rake 0 0 No Weeds 92 N44.79788332 W89.70426402 3 M Pole Rake 0 0 No Weeds 93 N44.79780833 W89.70426402 3 M Pole Rake 0 0 No Weeds 94 N44.796533 W89.70427092 7 N/A No Reading 95 N44.79585784 W89.70427437 2 S Pole Rake 0 0 No Weeds 96 N44.81138403 W89.70325601 9 N/A No Reading 97 N44.8070887 W89.70325604 - M N/A No Reading 98 N44.80935856 W89.70325604 - M N/A No Reading 99 N44.80936856 W89.70330839 1 M Pole Rake 0 0 No Weeds 100 N44.7998063 W89.70329501 3 M Pole Rake 0 0 No Weeds 101 N44.7998063 W89.70339155 5 M/W Pole Rake 0 0 No Weeds 102 N44.7978086 W89.70330885 3 M Pole Rake 0 0 No Weeds 104 N44.7978066 W89.70331923 2 S Pole Rake 0 0 No Weeds 105 N44.7978066 W89.70331923 2 S Pole Rake 0 0 No Weeds 106 N44.79518022 W89.70330865 7 N/A No Reading 108 N44.8080057 W89.7033193 2 S Pole Rake 0 0 No Weeds 109 N44.8086093 W89.70332615 7 N/A No Reading 108 N44.80307964 W89.70330855 9 N/A No Reading 108 N44.80307966 W89.70331923 2 S Pole Rake 0 0 No Weeds 109 N44.8086093 W89.70331923 5 S Pole Rake 0 0 No Weeds									
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85         N44.79653545         W89.70521915         5         W         Pole Rake         0         0         No Weeds           86         N44.81206165         W89.70419157         4         W         Pole Rake         0         0         No Weeds           87         N44.81138649         W89.70419848         10         -         -         -         N/A No Reading           88         N44.80260943         W89.7042338         5         M         Pole Rake         0         0         No Weeds           90         N44.80193427         W89.70424678         3         S         Pole Rake         0         0         No Weeds           91         N44.80125911         W89.70426702         3         M         Pole Rake         0         0         No Weeds           92         N44.7972816         W89.70426747         3         S         Pole Rake         0         0         No Weeds           93         N44.795633         W89.70427437         2         S         Pole Rake         0         0         No Weeds           95         N44.81138403         W89.70324655         7         -         -         -         N/A No Reading           96					VV	Pole Rake	U	U	
86 N44.81206165         W89.70419157         4         W         Pole Rake         0         0         No Weeds           87 N44.81138649         W89.70419502         7         -         -         -         N/A No Reading           88 N44.80260943         W89.70423988         5         M         Pole Rake         0         0         No Weeds           90 N44.80193427         W89.70424333         4         M/W         Pole Rake         0         0         No Weeds           91 N44.80125911         W89.70426402         3         S         Pole Rake         0         0         No Weeds           92 N44.79788332         W89.70426747         3         S         Pole Rake         0         0         No Weeds           93 N44.79720816         W89.70426747         3         S         Pole Rake         0         No Weeds           95 N44.79585784         W89.70427437         2         S         Pole Rake         0         No Weeds           96 N44.81138403         W89.70325001         9         -         -         -         N/A No Reading           98 N44.8035856         W89.70325694         -         M         -         -         N/A No Reading           100 N44.80193					-	-	-	-	
87 N44.81138649         W89.70419502         7         -         -         N/A No Reading           88 N44.81071133         W89.70419848         10         -         -         N/A No Reading           89 N44.80260943         W89.70423988         5         M         Pole Rake         0         0         No Weeds           90 N44.80193427         W89.70424333         4         M/W         Pole Rake         0         0         No Weeds           91 N44.80125911         W89.70424678         3         S         Pole Rake         0         0         No Weeds           92 N44.79720816         W89.70426747         3         S         Pole Rake         0         No Weeds           93 N44.79720816         W89.70426747         3         S         Pole Rake         0         No Weeds           95 N44.796533         W89.70427437         2         S         Pole Rake         0         0         No Weeds           96 N44.81138403         W89.70325501         7         -         -         -         N/A No Reading           98 N44.80260697         W89.70329501         9         -         -         -         N/A No Reading           100 N44.7992034         W89.70330539         1									
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96 N44.81138403 W89.70324655 7 N/A No Reading 97 N44.81070887 W89.70325001 9 N/A No Reading 98 N44.80935856 W89.70325694 - M N/A Shallow Muck 99 N44.80260697 W89.70329155 5 M/W Pole Rake 0 0 No Weeds 100 N44.80193181 W89.70329501 3 M Pole Rake 0 0 No Weeds 101 N44.79990634 W89.70330539 1 M Pole Rake 1 0							-	-	N/A No Reading
97 N44.81070887 W89.70325001 9 N/A No Reading 98 N44.80935856 W89.70325694 - M N/A Shallow Muck 99 N44.80260697 W89.70329155 5 M/W Pole Rake 0 0 No Weeds 100 N44.80193181 W89.70329501 3 M Pole Rake 0 0 No Weeds 101 N44.79990634 W89.70330539 1 M Pole Rake 1 0 - 102 N44.79923118 W89.70330539 1 M Pole Rake 0 0 No Weeds 103 N44.79788086 W89.70331577 4 W/M Pole Rake 0 0 No Weeds 104 N44.7972057 W89.70331577 4 W/M Pole Rake 0 0 No Weeds 105 N44.79585538 W89.70332615 7 N/A No Reading 106 N44.79518022 W89.70332961 2 G Pole Rake 0 0 No Weeds 107 N44.81138156 W89.7023968 7 N/A No Reading 108 N44.81070641 W89.70230155 9 N/A No Reading 109 N44.808068093 W89.70231197 - M N/A No Reading 110 N44.80800577 W89.70231544 2 M Pole Rake 0 No Weeds 111 N44.803027966 W89.70233975 3 S Pole Rake 0 No Weeds 112 N44.80260451 W89.70234322 5 M Pole Rake 0 No Weeds 113 N44.80192935 W89.70234669 3 M Pole Rake 0 No Weeds									
98         N44.80935856         W89.70325694         -         M         -         -         N/A Shallow Muck           99         N44.80260697         W89.70329155         5         M/W         Pole Rake         0         0         No Weeds           100         N44.80193181         W89.70329501         3         M         Pole Rake         0         0         No Weeds           101         N44.79990634         W89.70330539         1         M         Pole Rake         1         0         -           102         N44.79923118         W89.70330885         3         M         Pole Rake         0         0         No Weeds           103         N44.79788086         W89.70331923         2         S         Pole Rake         0         0         No Weeds           104         N44.7972057         W89.70332961         7         -         -         -         N/A No Reading           105         N44.79518022         W89.70332961         2         G         Pole Rake         0         0         No Weeds           107         N44.81138156         W89.70230155         9         -         -         -         N/A No Reading           109         N44.808680					-	-	-		
99         N44.80260697         W89.70329155         5         M/W         Pole Rake         0         0         No Weeds           100         N44.80193181         W89.70329501         3         M         Pole Rake         0         0         No Weeds           101         N44.79990634         W89.70330853         1         M         Pole Rake         1         0         -           102         N44.79923118         W89.70330855         3         M         Pole Rake         0         0         No Weeds           103         N44.79788086         W89.70331577         4         W/M         Pole Rake         0         0         No Weeds           104         N44.7972057         W89.70331923         2         S         Pole Rake         0         0         No Weeds           105         N44.79585538         W89.70332961         7         -         -         -         N/A No Reading           106         N44.79518022         W89.7023908         7         -         -         -         N/A No Reading           107         N44.81138156         W89.70230155         9         -         -         -         N/A No Reading           109         N44.808680				9	_	-	-		
100         N44.80193181         W89.70329501         3         M         Pole Rake         0         0         No Weeds           101         N44.79990634         W89.70330539         1         M         Pole Rake         1         0         -           102         N44.7923118         W89.70330885         3         M         Pole Rake         0         0         No Weeds           103         N44.79788086         W89.70331923         2         S         Pole Rake         0         0         No Weeds           104         N44.7972057         W89.70331923         2         S         Pole Rake         0         0         No Weeds           105         N44.79585538         W89.70332961         2         G         Pole Rake         0         0         No Weeds           107         N44.81138156         W89.70229808         7         -         -         -         N/A No Reading           108         N44.81070641         W89.70230155         9         -         -         -         N/A Shallow Muck           110         N44.80868093         W89.70231544         2         M         Pole Rake         0         0         No Weeds           111									
101         N44.79990634         W89.70330539         1         M         Pole Rake         1         0         -           102         N44.79923118         W89.70330885         3         M         Pole Rake         0         0         No Weeds           103         N44.79788086         W89.70331577         4         W/M         Pole Rake         0         0         No Weeds           104         N44.7972057         W89.70331923         2         S         Pole Rake         0         0         No Weeds           105         N44.79585538         W89.70332615         7         -         -         -         N/A No Reading           106         N44.79518022         W89.70332961         2         G         Pole Rake         0         0         No Weeds           107         N44.81138156         W89.70229808         7         -         -         -         N/A No Reading           108         N44.81070641         W89.70230155         9         -         -         -         N/A Shallow Muck           110         N44.80868093         W89.70231544         2         M         Pole Rake         0         0         No Weeds           111         N44.8026									
102       N44.79923118       W89.70330885       3       M       Pole Rake       0       0       No Weeds         103       N44.79788086       W89.70331577       4       W/M       Pole Rake       0       0       No Weeds         104       N44.7972057       W89.70331923       2       S       Pole Rake       0       0       No Weeds         105       N44.79585538       W89.70332961       2       G       Pole Rake       0       0       No Weeds         106       N44.79518022       W89.70332961       2       G       Pole Rake       0       0       No Weeds         107       N44.81138156       W89.70229808       7       -       -       -       N/A No Reading         108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No									No Weeds
103       N44.79788086       W89.70331577       4       W/M       Pole Rake       0       0       No Weeds         104       N44.7972057       W89.70331923       2       S       Pole Rake       0       0       No Weeds         105       N44.79585538       W89.70332961       2       G       Pole Rake       0       0       No Weeds         106       N44.79518022       W89.70332961       2       G       Pole Rake       0       0       No Weeds         107       N44.81138156       W89.70229808       7       -       -       -       N/A No Reading         108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No									-
104       N44.7972057       W89.70331923       2       S       Pole Rake       0       0       No Weeds         105       N44.79585538       W89.70332615       7       -       -       -       N/A No Reading         106       N44.79518022       W89.70332961       2       G       Pole Rake       0       0       No Weeds         107       N44.81138156       W89.70229808       7       -       -       -       N/A No Reading         108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80327966       W89.70234322       5       M       Pole Rake       0       0       No Weeds         112       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds									
105       N44.79585538       W89.70332615       7       -       -       N/A No Reading         106       N44.79518022       W89.70332961       2       G       Pole Rake       0       0       No Weeds         107       N44.81138156       W89.70229808       7       -       -       -       N/A No Reading         108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds									
106       N44.79518022       W89.70332961       2       G       Pole Rake       0       0       No Weeds         107       N44.81138156       W89.70229808       7       -       -       -       N/A No Reading         108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds							0		
107       N44.81138156       W89.70229808       7       -       -       -       N/A No Reading         108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds							-	-	
108       N44.81070641       W89.70230155       9       -       -       -       N/A No Reading         109       N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds					G	Pole Rake	0	0	
109 N44.80868093       W89.70231197       -       M       -       -       N/A Shallow Muck         110 N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111 N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112 N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113 N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds					-	-	-	-	
110       N44.80800577       W89.70231544       2       M       Pole Rake       0       0       No Weeds         111       N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds					-	-	-	_	
111       N44.80327966       W89.70233975       3       S       Pole Rake       0       0       No Weeds         112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds								-	
112       N44.80260451       W89.70234322       5       M       Pole Rake       0       0       No Weeds         113       N44.80192935       W89.70234669       3       M       Pole Rake       0       0       No Weeds						Pole Rake	0	0	
113 N44.80192935 W89.70234669 3 M Pole Rake 0 0 No Weeds						Pole Rake	0	0	
113 N44.80192935 W89.70234669 3 M Pole Rake 0 0 No Weeds					М	Pole Rake	0	0	
114 N44.79922871 W89.70236058 2 M Pole Rake 0 0 No Weeds	113	N44.80192935	W89.70234669	3	М		0	0	
	114	N44.79922871	W89.70236058	2	М	Pole Rake	0	0	No Weeds

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900

County: Marathon EWM = Eurasian Water Milfoil G = Gravel

Crew: RAL/CTM CLP = Curly-leaf Pon

CLP = Curly-leaf Pondweed R = Root Mass (i.e.

N/A = Not Accessible

M = Muck

W = Woody Debris

S = Sand

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

Detun   Latitlude		RAL/CTM			Curly-leaf F			,	i.e. Lily Pads, Pickerel Weed, etc.)
115   M.4.7987535   W.98.70236405   3   W/S   Pole Rake   0   0   No Weeds   116   M.4.7972032   W86.70237098   3   S   Pole Rake   0   0   No Weeds   117   N.4.7972032   W86.70237098   3   S   Pole Rake   0   0   No Weeds   118   M.4.79858207   W86.7023746   3   W/W   Pole Rake   0   0   No Weeds   119   N.4.79585291   W86.7023746   3   W/W   Pole Rake   0   0   No Weeds   119   N.4.79585291   W86.7023746   3   W/W   Pole Rake   0   0   No Weeds   119   N.4.79585291   W86.70135500   9   -									
115  M4.79767839 W89.70230799							EWM	CLP	Comments
117   NA4 79720323   W83 70237099   3   S   Pole Rake   0   0   No Weeds     118   NA4 7968207   W89 7023746   3   WW   Pole Rake   0   0   No Weeds     119   NA4 7968207   W89 7023743   6   W   Pole Rake   0   0   No Weeds     119   NA4 79586221   W89 7023743   6   W   Pole Rake   0   0   No Weeds     120   NA4 19775   W89 7013859   9					W/S	Pole Rake			-
118 N44.79652807 W89.70237446   3   WW   Pole Rake   0   0   No Weeds   119 N44.79585291 W89.7023814   2   M   Pole Rake   0   0   No Weeds   129 N44.5917775 W89.7023814   2   M   Pole Rake   0   0   No Weeds   121 N44.51070393 W89.70135058   N/A Land   121 N44.51070393 W89.70135058   N/A Land   123 N44.5005736 W89.70136555   N/A Land   124 N44.50732814 W89.70137051   N/A Land   125 N44.50057261 W89.70136755   N/A Land   125 N44.50057239 W89.70138793   2   S   Pole Rake   0   0   No Weeds   126 N44.5005235 W89.70138938   3   M   Pole Rake   0   0   No Weeds   127 N44.50050203 W89.70138938   3   M   Pole Rake   0   0   No Weeds   128 N44.5007655 W89.70139489   4   S   Pole Rake   0   0   No Weeds   129 N44.50057655 W89.70140534   - M   N/A Shallow Muck   130 N44.7967592 W89.70141579   2   W   Pole Rake   0   0   No Weeds   129 N44.50057655 W89.70141579   2   W   Pole Rake   0   0   No Weeds   130 N44.7967592 W89.70141275   5   M   Pole Rake   0   0   No Weeds   131 N44.79767592 W89.70142275   4   M   Pole Rake   0   0   No Weeds   134 N44.7967592 W89.70142275   4   M   Pole Rake   0   0   No Weeds   134 N44.7965256 W89.70142276   4   M   Pole Rake   0   0   No Weeds   135 N44.51070145 W89.7004083   8     - N/A Blocked By DownTree   136 N44.51070145 W89.7004083   8     - N/A Blocked By DownTree   136 N44.51070145 W89.7004083   8     - N/A Blocked By DownTree   136 N44.51070145 W89.70041612   2   M   Pole Rake   0   0   No Weeds   138 N44.5005659 W89.70043958   5   S   Pole Rake   0   0   No Weeds   138 N44.50056759 W89.70043958   5   S   Pole Rake   0   0   No Weeds   138 N44.50056759 W89.70043958   5   S   Pole Rake   0   0   No Weeds   138 N44.50056759 W89.70043958   5   S   Pole Rake   0   0   No Weeds   144 N44.5005754 W89.70043503   4   W   Pole Rake   0   0   No Weeds   144 N44.5005754 W89.70043503   4   W   Pole Rake   0   0   No Weeds   144 N44.5005754 W89.70043503   4   W   Pole Rake   0   0   No Weeds   144 N44.50052767 W89.70043503				5		Pole Rake	0		
119   N44 79585291   W89 70237193   6	117	N44.79720323	W89.70237099	3		Pole Rake	0		
120   N44.79617775   W99.7013509   9				3	W/W	Pole Rake	0	0	
121   NA4.81070393   W89.70135509   9	119	N44.79585291	W89.70237793	6	W	Pole Rake	0	0	No Weeds
122   M44 81002877   W89 70139568       NA Land     123   N44 80873874   W89 7013951       NA Land     125   N44 80732874   W89 7013973   2   S   Pole Rake   0   0   No Weeds     126   N44 80327719   W89 70139814   2   M   Pole Rake   1   0   -	120	N44.79517775	W89.7023814	2	М	Pole Rake	0	0	No Weeds
123   N44,80867284   W89,70136534   1	121	N44.81070393	W89.70135309	9	-	-	-	-	N/A No Reading
124   M4.80732814   W88.70137051   -	122	N44.81002877	W89.70135658	-	-	-		-	N/A Land
125   M44 80395235   W39 70139743   2	123	N44.80867846	W89.70136354	.1	М	Pole Rake	0	0	No Weeds
126   M44 80327719   W99 70139414   2	124	N44.80732814	W89.70137051	· -	_	-	-	-	N/A Land
126   M44 80327719   W99 70139414   2	125	N44.80395235	W89.70138793	2	S	Pole Rake	0	0.	No Weeds
127   M44 80260203   W99.70139848				2	М	Pole Rake	1	0	-
128   N44.80075656   W89.70149534							0	0	No Weeds
129  N44.80057655   W89.70141579   2   W   Pole Rake   0   0   0   No Weeds   130  N44.79855108   W89.70141527   5   M   Pole Rake   0   0   No Weeds   132  N44.7972076   W89.70141927   5   M   Pole Rake   0   0   No Weeds   133  N44.7975052   W89.70142623   1   S   Pole Rake   0   0   No Weeds   133  N44.7965256   W89.70142623   1   S   Pole Rake   0   0   No Weeds   133  N44.79585264   W89.70142623   1   S   Pole Rake   0   0   No Weeds   135  N44.81070145   W89.7004063   8   -   -   N/A No Reading   N/A Blocked By Down'Tree   136  N44.81002629   W89.7004081   -   -   -   N/A No Reading   N/A Blocked By Down'Tree   137  N44.80935113   W89.70041162   -   -   N/A Land   N/A Blocked By Down'Tree   138  N44.80935113   W89.70041512   2   M   Pole Rake   0   0   No Weeds   140  N44.80066505   W89.70041581   4   M   Pole Rake   0   0   No Weeds   140  N44.80066505   W89.70042506   -   -   -   N/A Land   141  N44.80597534   W89.70043908   3   W   Pole Rake   0   0   No Weeds   141  N44.80462502   W89.70043908   3   W   Pole Rake   0   0   No Weeds   143  N44.803394968   W89.70043908   5   S   Pole Rake   0   0   No Weeds   145  N44.80529955   W89.70044307   4   S   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   4   S/W   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   5   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   5   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   5   Pole Rake   0   0   No Weeds   146  N44.80192439   W89.7004506   5   Pole Rake   0   0   No Weeds   150  N44.8056763   W89.80950174				3			0	0	No Weeds
130   N44.79855016   W89.70141927   5				- 1		_	<b></b>		
131   M44.79787592   W89.70142275				2		Pole Rake	0	0	
132   M44.79720076   W89.70142275   4									No Weeds
133   M44.7965256   W89.70142623   1   S   Pole Rake   0   0   No Weeds									
136   N44.79685044   W89.70142971   6   S   Pole Rake   0   O   No Weeds     136   N44.81070145   W89.70040463   8   N/A   No Reading     136   N44.81002629   W89.70040813   N/A   Blocked By Down'Tree     137   N44.80935113   W89.70041162   N/A   Land     138   N44.80867597   W89.7004152   2   M   Pole Rake   0   0   No Weeds     139   N44.808068597   W89.70041861   4   M   Pole Rake   0   0   No Weeds     140   N44.8066505   W89.7004256   N/A   Land     141   N44.80597534   W89.7004256   N/A   Land     141   N44.80597534   W89.70043608   4   W   Pole Rake   0   0   No Weeds     142   N44.8045252   W89.70043608   4   W   Pole Rake   0   0   No Weeds     143   N44.80394986   W89.70044307   4   S   Pole Rake   0   0   No Weeds     145   N44.80325955   W89.70044307   4   S   Pole Rake   0   0   No Weeds     146   N44.8032747   W89.70044307   4   S   Pole Rake   0   0   No Weeds     147   N44.79989891   W89.7004606   4   S.W   Pole Rake   0   0   No Weeds     148   N44.79982375   W89.70044666   4   S   Pole Rake   0   0   No Weeds     149   N44.79982375   W89.7004603   3   M   Pole Rake   0   0   No Weeds     149   N44.79982375   W89.7004603   3   M   Pole Rake   0   0   No Weeds     149   N44.79982375   W89.70047102   5   M   Pole Rake   0   0   No Weeds     150   N44.79719827   W89.7004710   5   M   Pole Rake   0   0   No Weeds     151   N44.79652311   W89.7004710   5   M   Pole Rake   0   0   No Weeds     152   N44.79652311   W89.7004710   5   M   Pole Rake   0   0   No Weeds     153   N44.79652311   W89.7004710   5   M   Pole Rake   0   0   No Weeds     154   N44.79652311   W89.7004710   5   M   Pole Rake   0   0   No Weeds     155   N44.8003464   W89.69945966   9     N/A   No Reading     156   N44.8003238   W89.6994696   5   S   Pole Rake   0   0   No Weeds     157   N44.8003238   W89.69945966   5   S   Pole Rake   0   No Weeds     158   N44.80527969   W89.6994577   10     N/A   No Reading     150   N44.80527969   W89.699451225   S   Pole Rake   0   No We									
135   N44:81070145   W89.70040463   8									
136   N44.81002629   W89.70040813   -						-		-	the state of the s
137   NA438035113   W89.70041512   2				-	_				
138   N44/80867597   W89.70041512   2   M   Pole Rake   0   0   No Weeds   N44/808070081   W89.70041861   4   M   Pole Rake   0   0   No Weeds   No Weeds   N44/8068056   W89.7004266   N/A Land   N44/806850534   W89.70042909   3   W   Pole Rake   0   0   No Weeds   N44/80462502   W89.70043608   4   W   Pole Rake   0   0   No Weeds   No Weeds   N44/80394986   W89.70043958   5   S   Pole Rake   0   0   No Weeds   No Weeds   N44/80324747   W89.70044307   4   S   Pole Rake   0   0   No Weeds   N44/80324747   W89.70044307   4   S   Pole Rake   0   0   No Weeds   N44/80182439   W89.70044007   4   S   Pole Rake   0   0   No Weeds   N44/80182439   W89.70044006   4   S/W   Pole Rake   0   0   No Weeds   No Weeds   N44/80182439   W89.70046064   1   S   Pole Rake   0   0   No Weeds   No Weeds   N44/804479898931   W89.70046006   4   S/W   Pole Rake   0   0   No Weeds   No Weeds   N44/8044798634859   W89.7004603   3   M   Pole Rake   0   0   No Weeds   No Weeds   N44/8044798634859   W89.70046753   2   S   Pole Rake   0   0   No Weeds   No Weeds   N44/804798634859   W89.70046753   2   S   Pole Rake   0   0   No Weeds   No Weeds   N44/80479862311   W89.70047451   4   M   Pole Rake   0   0   No Weeds   No Weeds   N64/8048795   W89.7004451   4   M   Pole Rake   0   0   No Weeds					_				
139 N44:80800081 W89.70041861				2	M .	Pole Pake	0	0	
140 N44.8066505   W89.7004256   N/A Land     141 N44.80597534 W89.70042909   3 W Pole Rake									
141 N44:80597534 W89.70042909   3				3			<del></del>		
142 N44:80462502 W89.70043608				-				-	
143 N44;80394986									
144   N44:8032747   W89.70044307   4									
145   N44:80259955   W89.70044656				1					
146 N44.80192439   W89.70045006   4   S/W   Pole Rake   0   0   No Weeds     147 N44.79988891   W89.70046054   1   S   Pole Rake   1   0   -     148 N44.79922375   W89.70046031   3   M   Pole Rake   0   0   No Weeds     149 N44.79854859   W89.70046753   2   S   Pole Rake   0   0   No Weeds     150 N44.79787343   W89.70047102   5   M   Pole Rake   0   0   No Weeds     151 N44.79787343   W89.70047451   4   M   Pole Rake   0   0   No Weeds     152 N44.79652311   W89.700478   4   M   Pole Rake   0   0   No Weeds     153 N44.79582311   W89.700478   4   M   Pole Rake   0   0   No Weeds     154 N44.7951728   W89.7004815   5   M   Pole Rake   0   0   No Weeds     155 N44.810238   W89.69946318   3   W   Pole Rake   0   0   No Weeds     156 N44.80934864   W89.69946318   3   W   Pole Rake   0   0   No Weeds     157 N44.80367348   W89.69946669   5   S   Pole Rake   0   0   No Weeds     158 N44.80732316   W89.6994737   10   -   -   -   N/A No Reading     159 N44.80597285   W89.69948071   -   -   -   N/A No Reading     159 N44.8052769   W89.69948473   3   M   Pole Rake   0   0   No Weeds     160 N44.8052769   W89.6994824   5   M   Pole Rake   0   0   No Weeds     161 N44.80327221   W89.69949473   3   M   Pole Rake   0   0   No Weeds     162 N44.80259705   W89.6994824   5   M   Pole Rake   0   0   No Weeds     163 N44.8019219   W89.6995174   2   S   Pole Rake   0   0   No Weeds     165 N44.7982346   W89.6995177   2   S   Pole Rake   0   0   No Weeds     166 N44.7982346   W89.69951926   2   S   Pole Rake   0   0   No Weeds     167 N44.79878094   W89.69952277   7   S   Pole Rake   0   0   No Weeds     168 N44.79719578   W89.69952277   7   S   Pole Rake   0   0   No Weeds     169 N44.79652062   W89.69952277   7   S   Pole Rake   0   0   No Weeds     160 N44.795284546   W89.69952278   7   S   Pole Rake   0   0   No Weeds     160 N44.79582062   W89.69952277   7   S   Pole Rake   0   0   No Weeds     170 N44.7958461   W89.69952277   7   S   Pole Rake   0   0   No Weeds									
147 N44/79989891 W89.70046054									
148 N44.79922375         W89.70046403, 3         M         Pole Rake         0         0         No Weeds           149 N44.79854859         W89.70046753         2         S         Pole Rake         0         0         No Weeds           150 N44.79787343         W89.70047102         5         M         Pole Rake         0         0         No Weeds           151 N44.79719827         W89.7004781         4         M         Pole Rake         0         0         No Weeds           152 N44.79652311         W89.7004815         5         M         Pole Rake         0         0         No Weeds           153 N44.79584795         W89.70048499         4         W/S         Pole Rake         0         0         No Weeds           155 N44.8100238         W89.69945968         9         -         -         -         N/A No Reading           156 N44.80334864         W89.69946669         5         S         Pole Rake         0         0         No Weeds           157 N44.8067348         W89.69948737         10         -         -         -         N/A No Reading           159 N44.80529769         W89.69948737         10         -         -         -         N/A No Reading									INO Weeds
149 N44.79854859 W89.70046753				15					No Woods
150 N44.79787343   W89.70047102   5									
151         N44.79719827         W89.70047451         4         M         Pole Rake         0         0         No Weeds           152         N44.79552311         W89.700478         4         M         Pole Rake         0         0         No Weeds           153         N44.7951728         W89.70048499         4         W/S         Pole Rake         0         0         No Weeds           155         N44.8100238         W89.69945968         9         -         -         -         N/A No Reading           156         N44.80934864         W89.69946318         3         W         Pole Rake         0         0         No Weeds           157         N44.80867348         W89.69946669         5         S         Pole Rake         0         0         No Weeds           158         N44.80732316         W89.69948071         -         -         -         N/A No Reading           159         N44.80327221         W89.69948422         9         -         -         -         N/A No Reading           161         N44.80327221         W89.6994924         5         M         Pole Rake         0         0         No Weeds           162         N44.80259705									
152         N44.79652311         W89.700478         4         M         Pole Rake         0         0         No Weeds           153         N44.79584795         W89.70048499         4         W/S         Pole Rake         0         0         No Weeds           154         N44.7951728         W89.70048499         4         W/S         Pole Rake         0         0         No Weeds           155         N44.8100238         W89.69945968         9         -         -         -         N/A No Reading           156         N44.80934864         W89.69946618         3         W         Pole Rake         0         0         No Weeds           157         N44.80867348         W89.69946669         5         S         Pole Rake         0         0         No Weeds           158         N44.80732316         W89.69948737         10         -         -         -         N/A No Reading           159         N44.80597285         W89.699488422         9         -         -         -         N/A No Reading           160         N44.80259769         W89.69949473         3         M         Pole Rake         0         0         No Weeds           163         N4				<del></del>					
153         N44.79584795         W89.7004815         5         M         Pole Rake         0         0         No Weeds           154         N44.7951728         W89.70048499         4         W/S         Pole Rake         0         0         No Weeds           155         N44.8100238         W89.69945968         9         -         -         -         N/A No Reading           156         N44.80934864         W89.69946699         5         S         Pole Rake         0         0         No Weeds           157         N44.80867348         W89.69946669         5         S         Pole Rake         0         0         No Weeds           158         N44.80732316         W89.6994737         10         -         -         -         N/A No Reading           159         N44.80597285         W89.69948071         -         -         -         N/A No Reading           161         N44.80327221         W89.69949473         3         M         Pole Rake         0         0         No Weeds           162         N44.80259705         W89.69949424         5         M         Pole Rake         0         0         No Weeds           163         N44.8019219									
154         N44.7951728         W89.70048499         4         W/S         Pole Rake         0         0         No Weeds           155         N44.8100238         W89.69945968         9         -         -         -         N/A No Reading           156         N44.80934864         W89.69946669         5         S         Pole Rake         0         0         No Weeds           157         N44.80867348         W89.6994737         10         -         -         -         N/A No Reading           158         N44.80597285         W89.69948071         -         -         -         N/A Land           160         N44.80529769         W89.69948422         9         -         -         -         N/A No Reading           161         N44.80327221         W89.69949824         5         M         Pole Rake         0         0         No Weeds           162         N44.8019219         W89.69950174         2         S         Pole Rake         0         0         No Weeds           163         N44.79989642         W89.69951225         2         S         Pole Rake         0         0         No Weeds           165         N44.79982461         W89.69951225					\$				
155         N44.8100238         W89.69945968         9         -         -         -         N/A No Reading           156         N44.80934864         W89.69946318         3         W         Pole Rake         0         0         No Weeds           157         N44.80867348         W89.69946669         5         S         Pole Rake         0         0         No Weeds           158         N44.80732316         W89.69948071         -         -         -         N/A No Reading           159         N44.80529769         W89.69948422         9         -         -         -         N/A No Reading           160         N44.80327221         W89.69949473         3         M         Pole Rake         0         0         No Weeds           162         N44.80259705         W89.69949824         5         M         Pole Rake         0         0         No Weeds           163         N44.8019219         W89.69951074         2         S         Pole Rake         0         1         -           164         N44.79989642         W89.69951225         2         S         Pole Rake         0         No Weeds           165         N44.7985461         W89.69952277									
156         N44.80934864         W89.69946318         3         W         Pole Rake         0         0         No Weeds           157         N44.80867348         W89.69946669         5         S         Pole Rake         0         0         No Weeds           158         N44.80732316         W89.6994737         10         -         -         -         N/A No Reading           159         N44.80529769         W89.69948422         9         -         -         -         N/A No Reading           160         N44.80327221         W89.69949473         3         M         Pole Rake         0         0         No Weeds           162         N44.80259705         W89.69949824         5         M         Pole Rake         0         0         No Weeds           163         N44.8019219         W89.69950174         2         S         Pole Rake         0         1         -           164         N44.79989642         W89.69951225         2         S         Pole Rake         0         No Weeds           165         N44.79987094         W89.69951226         2         S         Pole Rake         0         No Weeds           167         N44.79787094 <td< td=""><td></td><td></td><td></td><td><del></del></td><td>VV/S</td><td>Pole Rake</td><td>  U</td><td></td><td></td></td<>				<del></del>	VV/S	Pole Rake	U		
157         N44.80867348         W89.69946669         5         S         Pole Rake         0         0         No Weeds           158         N44.80732316         W89.6994737         10         -         -         -         N/A No Reading           159         N44.80597285         W89.69948071         -         -         -         N/A Land           160         N44.80529769         W89.69949473         3         M         Pole Rake         0         0         No Weeds           161         N44.80259705         W89.69949824         5         M         Pole Rake         0         0         No Weeds           163         N44.8019219         W89.69950174         2         S         Pole Rake         0         1         -           164         N44.79989642         W89.69951225         2         S         Pole Rake         0         0         No Weeds           165         N44.79922126         W89.69951926         2         S         Pole Rake         0         0         No Weeds           167         N44.79787094         W89.69952277         7         S         Pole Rake         0         0         No Weeds           169         N44.79652062 <td></td> <td></td> <td></td> <td></td> <td></td> <td>5 . 5 .</td> <td><del>  -</del></td> <td></td> <td></td>						5 . 5 .	<del>  -</del>		
158 N44.80732316       W89.6994737       10       -       -       -       N/A No Reading         159 N44.80597285       W89.69948071       -       -       -       -       N/A Land         160 N44.80529769       W89.69948422       9       -       -       -       N/A No Reading         161 N44.80327221       W89.69949473       3       M       Pole Rake       0       0       No Weeds         162 N44.80259705       W89.69949824       5       M       Pole Rake       0       0       No Weeds         163 N44.8019219       W89.69950174       2       S       Pole Rake       0       1       -         164 N44.79989642       W89.69951225       2       S       Pole Rake       0       0       No Weeds         165 N44.79922126       W89.69951926       2       S       Pole Rake       0       0       No Weeds         166 N44.7987094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168 N44.79719578       W89.69952978       7       S       Pole Rake       0       0       No Weeds         169 N44.79584546       W89.69953328       7       S       Pole Rake       0									
159 N44.80597285 W89.69948071       -       -       -       -       N/A Land         160 N44.80529769 W89.69948422       9       -       -       -       N/A No Reading         161 N44.80327221 W89.69949473       3       M       Pole Rake       0       0       No Weeds         162 N44.80259705 W89.69949824       5       M       Pole Rake       0       0       No Weeds         163 N44.8019219 W89.69950174 2       S       Pole Rake       0       1       -         164 N44.79989642 W89.69951225 2       S       Pole Rake       0       0       No Weeds         165 N44.79922126 W89.69951576 3       S       Pole Rake       0       0       No Weeds         166 N44.7985461 W89.69951926 2       S       Pole Rake       0       0       No Weeds         167 N44.79787094 W89.69952277 7       S       Pole Rake       0       0       No Weeds         168 N44.79719578 W89.69952627 7       S       Pole Rake       0       0       No Weeds         169 N44.79584546 W89.69953328 7       S       Pole Rake       0       0       No Weeds						Pole Rake	1 0		in the state of th
160       N44.80529769       W89.69948422       9       -       -       -       N/A No Reading         161       N44.80327221       W89.69949473       3       M       Pole Rake       0       0       No Weeds         162       N44.80259705       W89.69949824       5       M       Pole Rake       0       0       No Weeds         163       N44.8019219       W89.699501744       2       S       Pole Rake       0       1       -         164       N44.79889642       W89.69951225       2       S       Pole Rake       0       0       No Weeds         165       N44.79922126       W89.69951576       3       S       Pole Rake       0       0       No Weeds         166       N44.7985461       W89.69951926       2       S       Pole Rake       0       0       No Weeds         167       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952978       7       S       Pole Rake       0       0       No Weeds         169       N44.79584546       W89.69953328       7       S       Pole Rake       0				10			<del>  -</del>		
161       N44.80327221       W89.69949473       3       M       Pole Rake       0       0       No Weeds         162       N44.8019219       W89.69950174       2       S       Pole Rake       0       1       -         163       N44.79989642       W89.69951225       2       S       Pole Rake       0       0       No Weeds         165       N44.79922126       W89.69951576       3       S       Pole Rake       0       0       No Weeds         166       N44.7985461       W89.69951926       2       S       Pole Rake       0       0       No Weeds         167       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds					-	-		<del></del>	
162       N44.80259705       W89.69949824       5       M       Pole Rake       0       0       No Weeds         163       N44.8019219       W89.69950174       2       S       Pole Rake       0       1       -         164       N44.79989642       W89.69951225       2       S       Pole Rake       0       0       No Weeds         165       N44.79922126       W89.69951926       2       S       Pole Rake       0       0       No Weeds         166       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds									
163       N44.8019219       W89.69950174       2       S       Pole Rake       0       1       -         164       N44.79989642       W89.69951225       2       S       Pole Rake       0       0       No Weeds         165       N44.79922126       W89.69951576       3       S       Pole Rake       0       0       No Weeds         166       N44.7985461       W89.69951926       2       S       Pole Rake       0       0       No Weeds         167       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds				14					
164       N44.79989642       W89.69951225       2       S       Pole Rake       0       0       No Weeds         165       N44.79922126       W89.69951576       3       S       Pole Rake       0       0       No Weeds         166       N44.7985461       W89.69951926       2       S       Pole Rake       0       0       No Weeds         167       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds							+		No weeds
165       N44.79922126       W89.69951576       3       S       Pole Rake       0       0       No Weeds         166       N44.7985461       W89.69951926       2       S       Pole Rake       0       0       No Weeds         167       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds							<del></del>		
166       N44.7985461       W89.69951926       2       S       Pole Rake       0       0       No Weeds         167       N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168       N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds									
167 N44.79787094       W89.69952277       7       S       Pole Rake       0       0       No Weeds         168 N44.79719578       W89.69952627       7       S       Pole Rake       0       0       No Weeds         169 N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170 N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds							4		the state of the s
168 N44.79719578       W89.69952627       7       S       Pole Ráke       0       0       No Weeds         169 N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170 N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds							<del></del>		
169       N44.79652062       W89.69952978       7       S       Pole Rake       0       0       No Weeds         170       N44.79584546       W89.69953328       7       S       Pole Rake       0       0       No Weeds									the state of the s
170 N44.79584546 W89.69953328 7 S Pole Rake 0 0 No Weeds									
									the state of the s
171 N44.7951703  W89.69953678   6   S   Pole Rake   0   0   No Weeds									
	171	N44.7951703	JW89.69953678	6	S	Pole Rake	0	0	No Weeds

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900

County: Marathon Crew: RAL/CTM

EWM = Eurasian Water Milfoil

CLP = Curly-leaf Pondweed

G = Gravel R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

N/A = Not Accessible

W = Woody Debris

M = Muck

S = Sand

	KAL/CTM			Northorn Ma				i.e. Lily Pads, Pickerel Weed, etc.)
	: WGS84			Northern Wa		Rk = Ro		
Point		Longitude		Sediment	Method	EWM		Comments
		W89.69851123	9		_	-		N/A No Reading
		W89.69851474	10	-	_	-	-	N/A No Reading
174	N44.80867098	W89.69851826	15	-	-	-	_	N/A No Reading
175	N44.80799582	W89.69852178	10	-	_	-	-	N/A No Reading
176	N44.80732066	W89.69852529	12	-	_	-		N/A No Reading
	N44.80664551		11	_	_	-		N/A No Reading
		W89.69853584	7		_	_	_	N/A No Reading
		W89.69854991	4	W	Pole Rake	1	0	No Weeds
		W89.69855342	4	S	Pole Rake	0		No Weeds
		W89.69855694	4	S	Pole Rake	0		No Weeds
		W89.69856046	7	S	Pole Rake	0	0	No Weeds
			4	S			0	· · · · · · · · · · · · · · · · · · ·
		W89.69856397 W89.69856749		S	Pole Rake	0		No Weeds
			3		Pole Rake	0		No Weeds
	N44.7985436		6	M	Pole Rake	0		No Weeds
		W89.69857452	7	M	Pole Rake	0		No Weeds
		W89.69857803	8	-	-			N/A No Reading
		W89.69858155	8	-	-	-		N/A No Reading
		W89.69858506	9	-	_	-		N/A No Reading
		W89.69858858	9	_	_	-	-	N/A No Reading
191	N44.79449265	W89.69859209	4	S	Pole Rake	0	0	No Weeds
	N44.80934363		7	-	-	-	-	N/A No Reading
193	N44.80866847	W89.69756983	9	_	-	-	-	N/A No Reading
		W89.69758042	1	S	Pole Rake	0	0	-
		W89.69758394	9	-	-	-	-	N/A No Reading
		W89.69758747	11	_	_	_	_	N/A No Reading
		W89.69759805	2	W/S	Pole Rake	1	0	-
		W89.69760158	4	S	Pole Rake	1	0	
		W89.69760511	5	G/W	Pole Rake	Ö		No Weeds
	<del>                                     </del>	W89.69760863	4	S	Pole Rake	0		No Weeds
		W89.69761216	3	S			0	INO vveeus
				S	Pole Rake	0		-
		W89.69761569	3		Pole Rake	0	1	-
		W89.69761921	5	S	Pole Rake	0		No Weeds
		W89.69762274	7	S	Pole Rake	0		No Weeds
		W89.69762627	8		-	-		N/A No Reading
		W89.69762979	8	S	Pole Rake	0		No Weeds
		W89.69763332	8	-	-	-		N/A No Reading
		W89.69763684	8	_	_	-		N/A No Reading
		W89.69764037	9		-	-	-	N/A No Reading
	N44.79449014		8	S	Pole Rake	0	0	No Weeds
211	N44.79381498	W89.69764742	3	R	Pole Rake	0		No Weeds
	N44.7917895		_	-	-	-		Boat Barrier
		W89.69661787	1	S	Pole Rake	0		No Weeds
		W89.69662141	10	-	-	1 -		N/A No Reading
		W89.69662848	1	S	Pole Rake	0		No Weeds
		W89.69663202	2	S	Pole Rake	0	0	No Weeds
		W89.69663556	4	S	Pole Rake	0	0	_
	N44.80529017			3	FUIE RAKE	<del></del>	<u> </u>	N/A No Pooding
			13	-	Polo Dele	<del>  -</del>	-	N/A No Reading
		W89.69665325	2	S	Pole Rake	0	0	NI- NA/ II-
		W89.69665679	5	S/G	Pole Rake	0	0	No Weeds
		W89.69666033	3	S/G	Pole Rake	0	1	-
		W89.69666387	1	S	Pole Rake	0		No Weeds
	N44.7998889		1	S	Pole Rake	0		No Weeds
		W89.69667094	6	M	Pole Rake	0	0	No Weeds
		W89.69667448	5	W	Pole Rake	0		No Weeds
		W89.69667802	6	S	Pole Rake	0	0	No Weeds
		W89.69668155	7	W	Pole Rake	0		No Weeds
		W89.69668509	7	М	Pole Rake	0		No Weeds
	•	• • • • • • • • • • • • • • • • • • •	•		·	•		<u> </u>

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900

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	RAL/CTM			Curly-leaf I			•	i.e. Lily Pads, Pickerel Weed, etc.)
	: WGS84			Northern Wa		Rk = Ro		
Point		Longitude	Depth	Sediment	Method	EWM	CLP	Comments
		W89.69668863	8	-	-	-	-	N/A No Reading
230	N44.79516279	W89.69669216	9	-	-	-	-	N/A No Reading
231	N44.79448763	W89.6966957	9	-	-	-	-	N/A No Reading
232	N44.79381247	W89.69669924	3	S	Pole Rake	0	0	No Weeds
233	N44.79313731	W89.69670277	9	R	Pole Rake	0	0	No Weeds
234	N44.79246215	W89.69670631	10	-	-	-	-	N/A No Reading
		W89.69670985	-	-	-	-	-	Boat Barrier
		W89.69671338	-	-	-	-	-	Boat Barrier
237	N44.80933859	W89.69566943	1	S	Pole Rake	0	0	No Weeds
		W89.69567298	12	-		-	-	N/A No Reading
		W89.69568363		-	-	-	_	N/A Land
		W89.69568718	1	S	Pole Rake	0	0	No Weeds
		W89.69569073	7	_	-	_	-	N/A No Reading
		W89.69569428	12	_	_	-	_	N/A No Reading
		W89.69570492	7	_		_	-	N/A No Reading
		W89.69570847	1	S	Pole Rake	0	0	No Weeds
		W89.69571202	2	S	Pole Rake	0	0	-
		W89.69571557	3	R	Pole Rake	0	0	No Weeds
		W89.69571912	5	M	Pole Rake	0	0	No Weeds
		W89.69572267	5	M	Pole Rake	0	0	No Weeds
		W89.69572622	5	M	Pole Rake	0	0	No Weeds
		W89.69572977	4	W	Pole Rake	0	0	No Weeds
		W89.69573331	5	S	Pole Rake	0	0	No Weeds
		W89.69573686	6	M	Pole Rake	0	0	AT TAKE I
			7			0	0	No Weeds
		W89.69574041		М	Pole Rake			
		W89.69574396	9	-	- - 1 <u>-</u>			N/A No Reading N/A No Reading
		W89.6957475	15			0	0	No Weeds
		W89.69575105	6	M	Pole Rake	<del> </del>	U	
		W89.69575815	10	-	-	<u> </u>		N/A No Reading
		W89.69576169		: -		-		Boat Barrier
		W89.69576524	-	-	<u> </u>		-	Boat Barrier
		W89.69472099	3	G	Pole Rake	0	0	No Weeds
		W89.69472455	12	-	_	<u> </u>		N/A No Reading
		W89.69473523	-	-	<u>-</u>			N/A Land
		W89.69474236	3	S	Pole Rake	0	0	No Weeds
		W89.69474592	7	-	-		-	N/A No Reading
		W89.69474948	8	-	-	-		N/A No Reading
		W89.69475304	9	-	-			N/A No Reading
		W89.69476372	3	S	Pole Rake	0	0	No Weeds
		W89.69476728		S	Pole Rake	0		No Weeds
		W89.69477084	5	M	Pole Rake	0	0	No Weeds
	N44.79920869		5	M	Pole Rake	0	0	No Weeds
		W89.69477796	4	S/W	Pole Rake	0	0	No Weeds
		W89.69478152	5	M	Pole Rake	0	0	No Weeds
		W89.69478507	7	_	-		-	N/A No Reading
274	N44.79650805	W89.69478863	5	S	Pole Rake	0	0	No Weeds
		W89.69479219	4	S	Pole Rake	0	0	No Weeds
276	N44:79515773	W89.69479575	6	S	Pole Rake	0	0	No Weeds
		W89.69479931	15	-		-		N/A No Reading
		W89.69480287	15	-	-	-	_	N/A No Reading
279	N44.79313225	W89.69480643	16	-	-	-		N/A No Reading
		W89.69480999	17	_	-	-	_	N/A No Reading
		W89.69481354	14	-	-	-	-	N/A No Reading
	N44:79110678		-	-	-	-	_	Boat Barrier
		W89.69376898	3	G	Pole Rake	0	0	No Weeds
		W89.69377255		-	-	l -	_	N/A No Reading
		W89.69377612	12	-	-	-		N/A No Reading
								Page 5 of 10

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

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Datum: WGS84 EWM Point Lattitude Longitude Depth Sediment Method CLP Comments 286 N44.80663289 W89.69378684 М Pole Rake 0 0 287 N44.80460742 W89.69379756 N/A Blocked By Down Tree -\_ \_ 288 N44.80393226 W89.69380113 S Pole Rake 0 No Weeds 5 0 289 N44.80190678 W89.69381184 2 M/W Pole Rake 0 0 No Weeds 290 N44.80123162 W89.69381541 2 S/W 0 0 Pole Rake No Weeds 291 N44.80055647 W89.69381898 4 W/S Pole Rake 0 0 No Weeds 292 N44.79988131 W89.69382255 5 М Pole Rake 0 0 No Weeds 293 N44.79920615 W89.69382612 5 S/M Pole Rake 0 0 No Weeds 294 N44.79853099 W89.69382969 4 S Pole Rake 0 0 No Weeds 295 N44.79785583 W89.69383327 4 S/M Pole Rake 0 0 No Weeds 296 N44.79718067 W89.69383684 3 S Pole Rake 0 No Weeds 0 297 N44.79650551 W89.69384041 5 S Pole Rake 0 No Weeds 0 298 N44.79583035 W89.69384398 11 N/A No Reading N/A No Reading 299 N44.7951552 W89.69384755 9 300 N44.79448004 W89.69385112 S Pole Rake 5 n 0 No Weeds 301 N44.79380488 W89.69385468 Pole Rake No Weeds 9 G 0 0 302 N44.79312972 W89.69385825 N/A No Reading 13 303 N44.79245456 W89.69386182 13 N/A No Reading 304 N44.81068129 W89.69281695 3 G Pole Rake 0 0 305 N44.81000613 W89.69282053 11 N/A No Reading 306 N44.80933097 W89.69282411 14 N/A No Reading 307 N44.80798066 W89.69283128 0 N/A Blocked By Logs 308 N44.80663034 W89.69283845 1 Pole Rake 1 0 М 309 N44.80595519 W89.69284203 М N/A Shallow Muck 310 N44.80528003 W89.69284561 2 M Pole Rake 0 0 311 N44.80460487 W89.69284919 0 S Pole Rake 0 312 N44.80392971 W89.69285278 3 S Pole Rake 0 0 No Weeds 313 N44.80257939 W89.69285994 1 M Pole Rake 0 0 314 N44.80190424 W89.69286352 S/M Pole Rake 0 0 No Weeds 315 N44.80122908 W89.69286711 3 S Pole Rake 0 0 No Weeds 316 N44.80055392 W89.69287069 4 M Pole Rake 0 0 No Weeds 317 N44.79987876 W89.69287427 4 М Pole Rake 0 0 No Weeds 318 N44.7992036 W89.69287785 4 M/W Pole Rake 0 0 No Weeds 319 N44.79852844 W89.69288143 5 М Pole Rake 0 0 No Weeds 320 N44.79785329 W89.69288502 N/A No Reading 321 N44.79717813 W89.6928886 4 S/W Pole Rake 0 0 No Weeds 322 N44.79650297 W89.69289218 N/A No Reading 8 323 N44.79582781 W89.69289576 8 N/A No Reading 324 N44.79515265 W89.69289934 S Pole Rake 0 3 0 No Weeds 325 N44.79447749 W89.69290292 S Pole Rake 0 0 No Weeds 326 N44.79380233 W89.6929065 11 N/A No Reading -327 N44.82080608 W89.69181455 М N/A Shallow Muck -328 N44.81405452 W89.69185051 9 N/A No Reading -\_ \_ N/A No Reading 329 N44.81337936 W89.69185411 10 \_ -330 N44.8127042 W89.6918577 11 N/A No Reading \_ --331 N44.81202905 W89.6918613 11 N/A No Reading \_ \_ --332 N44.81135389 W89.69186489 13 N/A No Reading \_ \_ --333 N44.81067873 W89.69186849 15 N/A No Reading --\_ 334 N44.81000358 W89.69187208 11 N/A No Reading --335 N44.8079781 W89.69188286 \_ N/A Land 336 N44.80730295 W89.69188646 2 M Pole Rake 1 0 337 N44.80662779 W89.69189005 2 М 0 Pole Rake 1 338 N44.80460231 W89.69190083 N/A Blocked By Bullrush \_ 339 N44.80392716 W89.69190443 3 S Pole Rake 0 0 340 N44.80190168 W89.69191521 1 S Ō No Weeds Pole Rake 0 341 N44.80122652 W89.6919188 3 S/M Pole Rake 0 0 No Weeds 342 N44.80055137 W89.69192239 3 S/W Pole Rake 0 No Weeds 0

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

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Crew: RAL/CTM Datum: WGS84 NWM = Northern Water Milfoil Rk = Rock

Point	Datum:	WGS84		NWM =	Northern Wa	ater Milfoil	Rk = Ro	CK	
344 N44 79920105 W89.99192598   3   S   Pole Rake   0   0   No Weeds   345 N44 79852589 W89.99193317   4   W/M   Pole Rake   0   0   No Weeds   346 N44 79785073 W89.99194036   7       N/A No Reading   347 N44 79850041 W89.99194036   7     N/A No Reading   348 N44 79850041 W89.99194036   7     N/A No Reading   349 N44 79850041 W89.99195173   9     N/A No Reading   349 N44 79850041 W89.99195173   9     N/A No Reading   350 N44 7917857978 W89.99195173   9     N/A No Reading   351 N44 79474744 W89.99195473   9     N/A No Reading   352 N44 79379978 W89.99195832   2   G   Pole Rake   0   0   No Weeds   353 N44 82012358 W89.99086989       N/A Blocked By Logs   353 N44 82012359 W89.99086971       N/A Blocked By Down Tree   355 N44 81945321 W89.99087314   2   M   Pole Rake   0   0     357 N44 81672525 W89.9908767     -   N/A Slocked By Down Tree   358 N44 8137058 W89.99080199   8     -   N/A No Reading   359 N44 8137788 W89.69090199   8     -   N/A No Reading   360 N44 81270164 W89.69090199   8     -   N/A No Reading   361 N44 8120264 W89.69091261   10   -   -   N/A No Reading   362 N44 790797564 W89.6909127   10   -   -   N/A No Reading   363 N44 80790038 W89.69093405   -   -   N/A No Reading   364 N44 80790038 W89.69093405   -   -   N/A No Reading   365 N44 8105757   N/A W89.69093405   -   -   N/A No Reading   365 N44 8105757   N/A W89.69093405   -   -   N/A No Reading   366 N44 8105797564 W89.69093405   -   -   N/A No Reading   367 N44.8057407   W89.69093405   -   -   N/A No Reading   368 N44 80797564 W89.69093405   -   -   N/A No Reading   369 N44 80797564 W89.69093405   -   -   N/A No Reading   360 N44 80797579   W89.69093405   -   -   N/A No Reading   360 N44 8079759   W89.69093405   -   -   N/A No Reading   360 N44 8079759   W89.69093405   -   -   N/A No Reading   360 N44 8079759   W89.69093405   -   -   N/A No Reading   370 N44 8066225   W89.6909360   -   -   N/A No Reading   371 N44 8065260   W89.6909360   -   -   N/A No R	Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
344   M4.79520105   W89.69192958   3   S   Pole Rake   0   0   No Weeds	343	N44.79987621	W89.69192599	4	W	Pole Rake	0	0	No Weeds
345   M44.79765758   W89.69193377   4									
346   M.4. 79785073   W89.69194036   7									
347 N.44.79717557 W39.69194036 7 N/A No Reading 348 N.44.79650241 W39.69194376 5 S/W Pole Rake 0 0 No Weeds 350 N.44.79652525 W39.69194754 5 S/W Pole Rake 0 0 No Weeds 350 N.44.79647494 W39.69195113 9 N/A No Reading 351 N.44.7947494 W39.69195532 2 G Pole Rake 0 0 No Weeds 353 N.44.82215383 W39.6905857 N/A No Reading 352 N.44.79379978 W39.69195532 2 G Pole Rake 0 0 No Weeds 353 N.44.82215383 W39.69065857 N/A Blocked By Logs 354 N.44.82215383 W39.6906853 N/A Blocked By Logs 355 N.44.81945321 W39.69086731 2 M Pole Rake 0 0 - N/A Blocked By Down Tree 356 N.44.81810229 W39.6908035 - M N/A Shallow Muck 357 N.44.8167258 W39.6908057 N/A Shallow Muck 357 N.44.8167258 W39.6908057 N/A Shallow Muck 357 N.44.8167258 W39.6908057 N/A Shallow Muck 358 N.44.8120548 W39.6903056 9 N/A No Reading 359 N.44.81270164 W39.6903051 10 N/A No Reading 360 N.44.81270164 W39.69030521 10 N/A No Reading 361 N.44.8120548 W39.69031821 10 N/A No Reading 362 N.44.811351331 W39.69031842 2 S Pole Rake 0 No No Weeds 363 N.44.80730536 W39.690393805 N/A No Reading 364 N.44.80730536 W39.690393805 N/A No Reading 365 N.44.8062523 W39.6903456 2 S Pole Rake 0 No No Weeds 366 N.44.806527491 W39.63093446 2 S Pole Rake 0 No No Weeds 366 N.44.806527491 W39.63093457 N/A Land 366 N.44.80527491 W39.63094887 2 S Pole Rake 0 No No Weeds 376 N.44.80527491 W39.63094887 2 S Pole Rake 0 No No Weeds 376 N.44.80527491 W39.63094887 2 S Pole Rake 0 No No Weeds 377 N.44.80527491 W39.63094887 2 S Pole Rake 0 No No Weeds 378 N.44.80527491 W39.63094887 2 S Pole Rake 0 No No Weeds 379 N.44.80527491 W39.63094887 2 S Pole Rake 0 No No Weeds 371 N.44.80527491 W39.6309449 No No Weeds 371 N.44.80527491 W39.6309449 No No Weeds 373 N.44.6062526 W39.6309450 No No Weeds 373 N.44.6062526 W39.6309450 No No Weeds 373 N.44.6062526 W39.6309450 No No Weeds 374 N.44.7991864 W39.63094869 S No No No Weeds 375 N.44.7991864 W39.63094869 S No No No Weeds 375 N.44.7996260 W39.6309380 N						-			
348   N44.7965004   W89.69194395   5   5   -   -   N/A No Reading   349   N44.79652625   W89.69195113   9   -   -   N/A No Reading   350   N44.7951501   W89.69195113   9   -   -   N/A No Reading   351   N44.79417494   W89.69195473   9   -   -   N/A No Reading   352   N44.89379978   W89.69195632   2   G   Pole Rake   0   0   No Weeds   352   N44.89212836   W89.69068957   -   -   N/A Blocked By Logs   353   N44.89212836   W89.69068957   -   -   N/A Blocked By Down Tree   355   N44.81945321   W89.69087314   2   M   Pole Rake   0   0   N/A Blocked By Down Tree   356   N44.81810289   W89.69088757   -   -     N/A Shallow Muck   357   N44.81675258   W89.690890557   -   -     N/A No Reading   N44.81675258   W89.69090199   8   -     N/A No Reading   N44.81270164   W89.69090921   10   -       N/A No Reading   N44.81270164   W89.69090921   10   -							<del></del>		
349 N.44.79582525 W89.69194754 5 S.W. Pole Rake 0.0 No Weeds 350 N.44.7951501 W89.69195473 9 N/A No Reading 351 N.44.79447494 W89.69195473 9 N/A No Reading 352 N.44.79379978 W89.69195832 2 G Pole Rake 0.0 No Weeds 353 N.44.82215838 W89.69065871 N/A Blocked By Logs 351 N.44.82012836 W89.69085871 N/A Blocked By Logs 350 N.44.81945321 W89.69087314 2 M Pole Rake 0.0 - N/A Blocked By Down Tree 355 N.44.81945321 W89.69088757 N/A Shallow Muck 356 N.44.8110289 W89.69088757 N/A Shallow Muck 356 N.44.8110289 W89.6908085 - M N/A Shallow Muck 356 N.44.8130768 W89.69080951 9 8 N/A No Reading 356 N.44.8130768 W89.69090199 8 N/A No Reading 356 N.44.8130768 W89.69090199 8 N/A No Reading 360 N.44.813270164 W89.69090121 10 N/A No Reading 360 N.44.81202648 W89.69091281 10 N/A No Reading 361 N.44.81202648 W89.69091281 10 N/A No Reading 362 N.44.81135133 W89.69091281 10 N/A No Reading 362 N.44.81135133 W89.69091424 4 G Pole Rake 0 0 No Weeds 363 N.44.80797554 W89.69093445 2 S Pole Rake 0 0 No Weeds 364 N.44.80662523 W89.69094166 3 M Pole Rake 0 0 No Weeds 365 N.44.80662523 W89.69094166 3 M Pole Rake 0 0 No Weeds 366 N.44.80659507 W89.69094566 2 M Pole Rake 0 0 No Weeds 368 N.44.80659507 W89.69094566 2 M Pole Rake 0 0 No Weeds 368 N.44.80459975 W89.69094566 3 M Pole Rake 0 0 No Weeds 371 N.44.80324944 W89.69095588 5 S/G Pole Rake 0 0 No Weeds 373 N.44.80459975 W89.69095689 2 S Pole Rake 0 0 No Weeds 374 N.44.80324944 W89.69095588 5 S/G Pole Rake 0 0 No Weeds 374 N.44.80459975 W89.69095698 2 S Pole Rake 0 0 No Weeds 374 N.44.80459975 W89.6909568 3 S/G Pole Rake 0 0 No Weeds 374 N.44.80459975 W89.6909568 3 S/G Pole Rake 0 0 No Weeds 375 N.44.79987365 W89.6909568 2 M Pole Rake 0 0 No Weeds 375 N.44.79987365 W89.6909569 2 N/A Land 375 N.44.79987365 W89.6909569 3 No						<del></del>			
350 N44.7951601   W39.6919513   9								<del>-</del>	No Woods
351   M44.79447494   W39.69195473   9						Pole Rake	Ι , υ		
352   M44.79379978   W89.69195832   2						-			
353   M44.82215383   W89.69085871     - N/A Blocked By Logs   354   M44.82012836   W89.69086953     - N/A Blocked By Down Tree   355   M44.81945321   W89.69086035   - M     - N/A Shallow Muck   357   M44.81675258   W89.69086035   - M     - N/A Shallow Muck   357   M44.81675258   W89.69086035     N/A Land   358   M44.81405196   W89.69090199   8     N/A No Reading   359   M44.8133768   W89.69090199   8     N/A No Reading   360   M44.81270164   W89.69090121   10     -   N/A No Reading   361   M44.81202648   W89.69091281   10     -   N/A No Reading   M44.81202648   W89.69091281   10     -   N/A No Reading   M44.81202648   W89.69091241   10     -   N/A No Reading   M44.81202648   W89.69093445   2   S   Pole Rake   0   0   No Weeds   363   M44.80797554   W89.69093445   2   S   Pole Rake   0   0   No Weeds   365   M44.80662523   W89.69094867   2   S   Pole Rake   0   0   No Weeds   365   M44.80662523   W89.69094867   2   S   Pole Rake   0   0   No Weeds   366   M44.80527491   W89.69094887   2   S   Pole Rake   0   0   No Weeds   368   M44.805277491   W89.69094887   2   S   Pole Rake   0   0   No Weeds   368   M44.80459975   W89.69096508   3   S/G   Pole Rake   0   0   No Weeds   371   M44.80257428   W89.6909688   5   S/G   Pole Rake   0   0   No Weeds   371   M44.80189912   W89.6909688   5   S/G   Pole Rake   0   0   No Weeds   372   M44.80189912   W89.6909688   5   S/G   Pole Rake   0   0   No Weeds   373   M44.8012336   W89.6909705   3   M   Pole Rake   0   0   No Weeds   374   M44.80189912   W89.6909688   2   M/W   Pole Rake   0   0   No Weeds   375   M44.7985233   W89.6909775   3   M   Pole Rake   0   0   No Weeds   376   M44.7985233   W89.6909775   3   N   Pole Rake   0   No Weeds   378   M44.7985233   W89.6909868   5   S/G   Pole Rake   0   No Weeds   378   M44.7985233   W89.6909863   3   M   Pole Rake   0   No Weeds   381   M44.7985233   W89.6909863   3   N   Pole Rake   0   No Weeds   381   M44.7985233   W89.6909863   3   N   Pole Rake   0   No Weeds									
354   M44.82012836   W89.69086953 N/A Blocked By Down Tree   355   M44.81810289   W89.69087314   2 M				2		Pole Rake	0		
356   N44.81945321   W89.69088035   - M				-	-	-		-	
356   M44.81810289   W89.69088757				-	-	_		-	N/A Blocked By Down Tree
358   N44.81405195   W89.69090199   8				2		Pole Rake	0	0	
358 N44.81405196   W89.69090199   8				-	M	_	-	-	
350   N44.8133768   W89.6909056   9	357	N44.81675258	W89.69088757	-	-		-	-	
360 NA4.81270164   W89.69090221   10	358	N44.81405196	W89.69090199	8	-	-	-	-	N/A No Reading
360 NA4.81270164   W89.69090221   10				9	-	-	-	-	
361 N44.81202648   W89.69091281   10				10	-	-	-		
362 N44.80739754 W89.69093445							-		
663   N44.8073038   W89.69093405   2   S   Pole Rake   0   0   No Weeds					G	Pole Rake	0	0	No Weeds
364 N44.80730038 W89.69093805 N/A Land   365 N44.80662523 W89.69094166 3 M Pole Rake 0 0 No Weeds   366 N44.8059507 W89.69094887 2 S Pole Rake 0 0 No Weeds   367 N44.805978 W89.69094887 2 S Pole Rake 0 0 No Weeds   368 N44.80459978 W89.6909568 3 S/G Pole Rake 0 0 No Weeds   369 N44.80392459 W89.69095608 3 S/G Pole Rake 0 0 N/A Land   369 N44.80392459 W89.69095608 3 S/G Pole Rake 0 0 O   370 N44.8032494 W89.6909568 5 S/G Pole Rake 0 0 No Weeds   371 N44.80257428 W89.69096329 N/A Land   372 N44.80189912 W89.69096689 2 M/W Pole Rake 0 No Weeds   373 N44.8012396 W89.6909705 3 M Pole Rake 0 No Weeds   374 N44.80257428 W89.6909775 3 S Pole Rake 0 No Weeds   375 N44.79987365 W89.6909777 3 S Pole Rake 0 No Weeds   376 N44.79918949 W89.69098131 3 S Pole Rake 0 No Weeds   377 N44.79852333 W89.69098491 3 S Pole Rake 0 No Weeds   378 N44.79718301 W89.69098852 8 N/A No Reading   379 N44.79717301 W89.69099872 7 N/A No Reading   380 N44.79649785 W89.6909977 7 N/A No Reading   381 N44.79582269 W89.6909973 3 S/G Pole Rake 0 No Weeds   382 N44.79514753 W89.69099813 N/A No Reading   382 N44.79514753 W89.69099813 N/A No Reading   383 N44.810564 W89.68992453 N/A No Reading   384 N44.81545064 W89.68992453 N/A Blocked By Logs   385 N44.81607485 W89.68993539 2 M Pole Rake 0 No Weeds   386 N44.81607485 W89.6899353 3 S Pole Rake 0 No Weeds   387 N44.8153997 W89.6899453 3 M Pole Rake 0 No Weeds   388 N44.81607485 W89.6899353 2 M Pole Rake 0 No Weeds   389 N44.81607485 W89.6899353 3 S Pole Rake 0 No Weeds   380 N44.80797297 W89.6899860 3 S Pole Rake 0 No Weeds   381 N44.80797297 W89.6899860 3 S Pole Rake 0 No Weeds   382 N44.7954754 W89.6899860 3 S Pole Rake 0 No Weeds   383 N44.8062266 W89.68999373 N/A Blocked By Logs   384 N44.81607485 W89.6899860 3 S Pole Rake 0 No Weeds   385 N44.8062266 W89.68999860 3 S Pole Rake 0 No Weeds   386 N44.8072797 W89.6899860 3 S Pole Rake 0 No Weeds   395 N44.8059475 W89.6899868 2 M Pole Rake 0 No No Weeds   396 N44.8059									
365   N44.80662523   W89.69094166   3						- OIG RARE	<del></del>	<del>  _</del>	
366   N44.80595007   W89.69094526   2   M						Polo Pako		<u> </u>	
367 N44.80527491 W89.69094887									
368									
369 N44.80392459   W89.69095608   3   S/G   Pole Rake   0   0   0   0   0   0   0   0   0						Pole Rake			
370 N44.80324944   W89.69095968   5						5 5 5			N/A Land
371 N44.80257428 W89.69096329 N/A Land   372 N44.80189912 W89.69096689   2 M/W Pole Rake   0									<u>-</u>
372 N44.80189912 W89.69096689				5	S/G	Pole Rake	0	0	
373         N44.80122396         W89.6909705         3         M         Pole Rake         0         0         No Weeds           374         N44.8005488         W89.6909741         3         M         Pole Rake         0         0         No Weeds           375         N44.79987365         W89.69098131         3         S         Pole Rake         0         0         No Weeds           377         N44.7991849         W89.69098491         3         S         Pole Rake         0         0         No Weeds           378         N44.7954817         W89.6909852         8         -         -         -         N/A No Reading           379         N44.79717301         W89.69099212         8         -         -         -         N/A No Reading           381         N44.79649785         W89.690999572         7         -         -         -         N/A No Reading           381         N44.79514753         W89.699100293         3         S/G         Pole Rake         0         0         No Weeds           383         N44.81045064         W89.6899173         -         -         -         -         N/A Blocked By Logs           385         N44.811067485				-	-		-	-	
374 N44.8005488   W89.6909741   3   M   Pole Rake   0   0   No Weeds   375 N44.79987365   W89.69098777   3   S   Pole Rake   0   0   No Weeds   376 N44.79919849   W89.69098131   3   S   Pole Rake   0   0   No Weeds   377 N44.7985233   W89.69098491   3   S   Pole Rake   0   0   No Weeds   378 N44.79784817   W89.69098852   8   -				2	M/W		0	0	
375 N44.79987365 W89.6909777   3   S   Pole Rake   0   0   No Weeds   376 N44.79919849 W89.69098131   3   S   Pole Rake   0   0   No Weeds   377 N44.79852333 W89.69098491   3   S   Pole Rake   0   0   No Weeds   378 N44.79784817 W89.69098852   8   -   -   -   N/A No Reading   379 N44.79717301 W89.69099212   8   -   -   -   N/A No Reading   380 N44.79649785 W89.69099572   7   -   -   -   N/A No Reading   381 N44.79582269 W89.69099933   3   S   Pole Rake   0   0   No Weeds   382 N44.79514753 W89.69100293   3   S/G   Pole Rake   0   0   No Weeds   383 N44.82080095 W89.6899173   -   -   -   -   N/A Blocked By Logs   384 N44.81945064 W89.68992453   -   -   -   -   N/A Blocked By Logs   385 N44.810742517 W89.68994263   3   M   Pole Rake   0   0   No Weeds   387 N44.81607485 W89.68994263   3   M   Pole Rake   0   0   No Weeds   387 N44.8153997 W89.68994263   3   M   Pole Rake   0   0   No Weeds   388 N44.81472454 W89.68994624   3   M   Pole Rake   0   0   No Weeds   389 N44.81404938 W89.6899486   3   W/M   Pole Rake   0   0   No Weeds   389 N44.81404938 W89.68998603   3   W/M   Pole Rake   0   0   No Weeds   390 N44.80797297 W89.68998603   3   S   Pole Rake   0   0   No Weeds   391 N44.80797297 W89.68998603   3   Pole Rake   0   0   No Weeds   392 N44.80797297 W89.6899868   2   M   Pole Rake   0   0   No Weeds   393 N44.80797781 W89.68999868   2   M   Pole Rake   0   0   No Weeds   393 N44.80597781 W89.68999868   2   M   Pole Rake   0   0   No Weeds   394 N44.80597781 W89.68999868   2   M   Pole Rake   0   0   No Weeds   395 N44.80597781 W89.68999868   2   M   Pole Rake   0   0   No Weeds   395 N44.80597781 W89.68999868   2   M   Pole Rake   0   0   No Weeds   396 N44.80459718 W89.6900005   4   S   Pole Rake   0   0   No Weeds   396 N44.80459718 W89.6900005   4   S   Pole Rake   0   0   No Weeds   396 N44.80459718 W89.6900005   4   S   Pole Rake   0   0   No Weeds   396 N44.80459718 W89.6900005   4   S   Pole Rake   0   0   No Weeds   396 N44.80459718 W89.690000773   2   S   Pole Rake   0   0   O   No Weeds   396 N4	373	N44.80122396	W89.6909705	3	М	Pole Rake	0	0	No Weeds
376 N44.79919849   W89.69098131   3   S   Pole Rake   0   0   No Weeds	374	N44.8005488	W89.6909741		M	Pole Rake	0	0	No Weeds
377 N44.79852333 W89.69098491   3 S Pole Rake	375	N44.79987365	W89.6909777	3	S	Pole Rake	0	0	No Weeds
377 N44.79852333 W89.69098491   3 S Pole Rake	376	N44.79919849	W89.69098131	3	S	Pole Rake	0	0	No Weeds
378         N44.79784817         W89.69098852         8         -         -         -         N/A No Reading           379         N44.79717301         W89.69099212         8         -         -         -         N/A No Reading           380         N44.79649785         W89.69099933         3         S         Pole Rake         0         0         No Weeds           381         N44.79514753         W89.69100293         3         S/G         Pole Rake         0         0         No Weeds           383         N44.82080095         W89.6899173         -         -         -         N/A Blocked By Logs           384         N44.81945064         W89.68992453         -         -         -         N/A Blocked By Logs           385         N44.81742517         W89.68993539         2         M         Pole Rake         0         0         -           386         N44.8153997         W89.68994263         3         M         Pole Rake         0         0         No Weeds           387         N44.8153997         W89.6899486         3         W/M         Pole Rake         0         0         No Weeds           389         N44.80472781         W89.68998603							0	0	
379         N44.79717301         W89.69099212         8         -         -         -         N/A No Reading           380         N44.79649785         W89.69099933         3         S         Pole Rake         0         0         No Weeds           381         N44.79514753         W89.69100293         3         S/G         Pole Rake         0         0         No Weeds           383         N44.82080095         W89.6899173         -         -         -         N/A Blocked By Logs           384         N44.81945064         W89.68992453         -         -         -         N/A Blocked By Logs           385         N44.81742517         W89.68994263         3         M         Pole Rake         0         0         No Weeds           387         N44.8153997         W89.68994264         3         M         Pole Rake         0         0         No Weeds           389         N44.81472454         W89.68994866         3         W/M         Pole Rake         0         0         No Weeds           390         N44.80797297         W89.68998603         3         S         Pole Rake         0         0         No Weeds           392         N44.80662266					_	_	_	-	
380         N44.79649785         W89.69099572         7         -         -         -         N/A No Reading           381         N44.79582269         W89.69099933         3         S         Pole Rake         0         0         No Weeds           382         N44.79514753         W89.69100293         3         S/G         Pole Rake         0         0         No Weeds           383         N44.82080095         W89.6899173         -         -         -         -         N/A Blocked By Logs           384         N44.81945064         W89.68992453         -         -         -         -         N/A Blocked By Logs           385         N44.81742517         W89.68993539         2         M         Pole Rake         0         0         -           386         N44.81607485         W89.68994263         3         M         Pole Rake         0         0         No Weeds           387         N44.8153997         W89.68994864         3         M         Pole Rake         0         0         No Weeds           389         N44.81404938         W89.6899486         3         W/M         Pole Rake         0         0         No Weeds           390							<u> </u>		
381         N44.79582269         W89.69099933         3         S         Pole Rake         0         0         No Weeds           382         N44.79514753         W89.69100293         3         S/G         Pole Rake         0         0         No Weeds           383         N44.82080095         W89.6899173         -         -         -         -         N/A Blocked By Logs           384         N44.81945064         W89.68992453         -         -         -         -         N/A Blocked By Logs           385         N44.81742517         W89.68993539         2         M         Pole Rake         0         0         -           386         N44.81607485         W89.68994263         3         M         Pole Rake         0         0         No Weeds           387         N44.8153997         W89.68994624         3         M         Pole Rake         1         0         -           388         N44.81472454         W89.68994866         3         W/M         Pole Rake         0         0         No Weeds           390         N44.80797297         W89.68998603         3         S         Pole Rake         0         0         -           392								<del> </del>	
382         N44.79514753         W89.69100293         3         S/G         Pole Rake         0         0         No Weeds           383         N44.82080095         W89.6899173         -         -         -         -         N/A Blocked By Logs           384         N44.81945064         W89.68994533         -         -         -         -         N/A Blocked By Logs           385         N44.81607485         W89.68994263         3         M         Pole Rake         0         0         -           386         N44.8153997         W89.68994624         3         M         Pole Rake         1         0         -           388         N44.81472454         W89.68994866         3         W/M         Pole Rake         0         0         No Weeds           389         N44.81404938         W89.68995348         6         S         Pole Rake         0         0         No Weeds           390         N44.80797297         W89.68998603         3         S         Pole Rake         0         0         -           391         N44.80662266         W89.68999327         2         M         Pole Rake         0         0         No Weeds           393					9	Pole Pake	1	<u> </u>	
383       N44.82080095       W89.6899173       -       -       -       -       N/A Blocked By Logs         384       N44.81945064       W89.68994533       -       -       -       -       N/A Blocked By Logs         385       N44.81742517       W89.68994533       2       M       Pole Rake       0       0       -         386       N44.81607485       W89.68994263       3       M       Pole Rake       0       0       No Weeds         387       N44.8153997       W89.68994624       3       M       Pole Rake       1       0       -         388       N44.81472454       W89.68994986       3       W/M       Pole Rake       0       0       No Weeds         389       N44.81404938       W89.689995348       6       S       Pole Rake       0       0       No Weeds         390       N44.80797297       W89.68998603       3       S       Pole Rake       0       0       -         391       N44.8062266       W89.68999865       2       M       Pole Rake       0       0       No Weeds         393       N44.8059475       W89.68999688       2       M       Pole Rake       0       0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
384       N44.81945064       W89.68992453       -       -       -       -       N/A Blocked By Logs         385       N44.81742517       W89.68993539       2       M       Pole Rake       0       0       -         386       N44.81607485       W89.68994263       3       M       Pole Rake       0       0       No Weeds         387       N44.8153997       W89.68994624       3       M       Pole Rake       1       0       -         388       N44.81472454       W89.68994986       3       W/M       Pole Rake       0       0       No Weeds         389       N44.81404938       W89.68995348       6       S       Pole Rake       0       0       No Weeds         390       N44.80797297       W89.68998603       3       S       Pole Rake       0       0       -         391       N44.80729781       W89.6899865       2       M       Pole Rake       1       0       -         392       N44.8062266       W89.68999688       2       M       Pole Rake       0       0       No Weeds         393       N44.80527234       W89.6900005       4       S       Pole Rake       0       0				3	3/6		<del>                                     </del>		
385         N44.81742517         W89.68993539         2         M         Pole Rake         0         0         -           386         N44.81607485         W89.68994263         3         M         Pole Rake         0         0         No Weeds           387         N44.8153997         W89.68994624         3         M         Pole Rake         1         0         -           388         N44.81472454         W89.68994986         3         W/M         Pole Rake         0         0         No Weeds           389         N44.81404938         W89.68995348         6         S         Pole Rake         0         0         No Weeds           390         N44.80797297         W89.68998603         3         S         Pole Rake         0         0         -           391         N44.80729781         W89.68998605         2         M         Pole Rake         1         0         -           392         N44.80662266         W89.68999327         2         M         Pole Rake         0         0         No Weeds           393         N44.80527234         W89.6900005         4         S         Pole Rake         0         0         No Weeds					-		<del> </del> -	<del></del>	
386         N44.81607485         W89.68994263         3         M         Pole Rake         0         0         No Weeds           387         N44.8153997         W89.68994624         3         M         Pole Rake         1         0         -           388         N44.81472454         W89.68994986         3         W/M         Pole Rake         0         0         No Weeds           389         N44.81404938         W89.68995348         6         S         Pole Rake         0         0         No Weeds           390         N44.80797297         W89.68998603         3         S         Pole Rake         0         0         -           391         N44.80729781         W89.68998605         2         M         Pole Rake         1         0         -           392         N44.80662266         W89.68999327         2         M         Pole Rake         0         0         No Weeds           393         N44.8059475         W89.68999688         2         M         Pole Rake         0         0         No Weeds           394         N44.80459718         W89.6900005         4         S         Pole Rake         0         0         -				-		Dala Dala		<del></del>	IN/A DIOCKED BY LOGS
387         N44.8153997         W89.68994624         3         M         Pole Rake         1         0         -           388         N44.81472454         W89.68994986         3         W/M         Pole Rake         0         0         No Weeds           389         N44.81404938         W89.689985348         6         S         Pole Rake         0         0         No Weeds           390         N44.80797297         W89.68998603         3         S         Pole Rake         0         0         -           391         N44.80729781         W89.68998965         2         M         Pole Rake         1         0         -           392         N44.80662266         W89.68999327         2         M         Pole Rake         0         0         No Weeds           393         N44.8059475         W89.68999688         2         M         Pole Rake         0         0         No Weeds           394         N44.80527234         W89.6900005         4         S         Pole Rake         0         0         No Weeds           395         N44.80392202         W89.69000773         2         S         Pole Rake         0         0         -							ļ		-   N   N   N   N   N   N   N   N   N   N
388       N44.81472454       W89.68994986       3       W/M       Pole Rake       0       0       No Weeds         389       N44.81404938       W89.689985348       6       S       Pole Rake       0       0       No Weeds         390       N44.80797297       W89.68998603       3       S       Pole Rake       0       0       -         391       N44.80729781       W89.68998965       2       M       Pole Rake       1       0       -         392       N44.80662266       W89.68999327       2       M       Pole Rake       0       0       No Weeds         393       N44.8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394       N44.80459718       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44.80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44.80392202       W89.69000773       2       S       Pole Rake       0       0       -									INO VVeeas
389       N44.81404938       W89.68995348       6       S       Pole Rake       0       0       No Weeds         390       N44.80797297       W89.68998603       3       S       Pole Rake       0       0       -         391       N44.80729781       W89.68998965       2       M       Pole Rake       1       0       -         392       N44.80662266       W89.68999327       2       M       Pole Rake       0       0       No Weeds         393       N44.8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394       N44.80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44.80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44.80392202       W89.69000773       2       S       Pole Rake       0       0       -									
390       N44.80797297       W89.68998603       3       S       Pole Rake       0       0       -         391       N44.80729781       W89.68998965       2       M       Pole Rake       1       0       -         392       N44.80662266       W89.68999327       2       M       Pole Rake       0       0       No Weeds         393       N44.8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394       N44.80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44.80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44.80392202       W89.69000773       2       S       Pole Rake       0       0       -									
391       N44.80729781       W89.68998965       2       M       Pole Rake       1       0       -         392       N44.80662266       W89.68999327       2       M       Pole Rake       0       0       No Weeds         393       N44.8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394       N44.80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44.80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44.80392202       W89.69000773       2       S       Pole Rake       0       0       -									
392       N44       80662266       W89.68999327       2       M       Pole Rake       0       0       No Weeds         393       N44       8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394       N44       80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44       80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44       80392202       W89.69000773       2       S       Pole Rake       0       0       -	390	N44,80797297	W89.68998603	3	S	Pole Rake	0	0	30 i i i i
392       N44       80662266       W89.68999327       2       M       Pole Rake       0       0       No Weeds         393       N44       8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394       N44       80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44       80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44       80392202       W89.69000773       2       S       Pole Rake       0       0       -	391	N44.80729781	W89.68998965		M	Pole Rake	1	0	
393 N44 8059475       W89.68999688       2       M       Pole Rake       0       0       No Weeds         394 N44 80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395 N44 80459718       W89.69000411       3       M       Pole Rake       0       0       -         396 N44 80392202       W89.69000773       2       S       Pole Rake       0       0       -					M	Pole Rake	0	0	No Weeds
394       N44       80527234       W89.6900005       4       S       Pole Rake       0       0       No Weeds         395       N44       80459718       W89.69000411       3       M       Pole Rake       0       0       -         396       N44       80392202       W89.69000773       2       S       Pole Rake       0       0       -							0	0	
395 N44 80459718 W89 69000411 3 M Pole Rake 0 0 - 396 N44 80392202 W89 69000773 2 S Pole Rake 0 0 -							0	0	
396 N44,80392202 W89.69000773 2 S Pole Rake 0 0 -									-
									- : : : : : : : : : : : : : : : : : : :
397 N44 80324687 W89 69001135 5 S/G Pole Rake 0 0 No Weeds				5	S/G	Pole Rake	0	0	No Weeds
398 N44 80122139 W89.69002219 3 S/W Pole Rake 1 0 -								<del></del>	
399 N44.80054623 W89.69002581 3 S Pole Rake 0 0 No Weeds							<del></del>		
OSSINTT. OSCOTOZO I VVOS. OSCOZOCI   O   O   FOIE Nake   O   O   INO VVEEUS	399	1144.00004023	VVO3.0300Z30	1 3		I DIE IVAKE		1 0	Ino weeds

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900

EWM = Eurasian Water Milfoil G = Gravel

County: Marathon Crew: RAL/CTM

CLP = Curly-leaf Pondweed
NWM = Northern Water Milfoil

W = Woody Debris S = Sand

N/A = Not Accessible

M = Muck

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

Datum	: WGS84		NWM =	Northern Wa	ater Milfoil	Rk = Ro	ck	
Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
400	N44.79987108	W89.69002942	2	S/M	Pole Rake	0	0	No Weeds
401	N44.79919592	W89.69003304	2	S	Pole Rake	0	0	No Weeds
		W89.69003665	3	S	Pole Rake	0	0	No Weeds
	N44.7978456		10	-	-	-	-	N/A No Reading
	N44.79717044		9	-	-	_	_	N/A No Reading
		W89.69004749	2	S	Pole Rake	0	0	No Weeds
	N44.79582012		2	S/G	Pole Rake	0	0	No Weeds
		W89.69005472	2	S	Pole Rake	0	0	No Weeds
408	N44.82012321	W89.6889723	2	М	Pole Rake	0	0	No Weeds
409	N44.81809774	W89.68898319	2	М	Pole Rake	0	0	No Weeds
410	N44.81674743	W89.68899045	3	М	Pole Rake	1	0	-
411	N44.81607227	W89.68899408	3	М	Pole Rake	1	0	-
	N44.81539712		3	S	Pole Rake	11	0	-
		W89.68903762	-		-	<u> </u>	-	N/A Land
		W89.68904125	3	M	Pole Rake	1	0	-
		W89.68904487	3	S	Pole Rake	0		No Weeds
	N44.80594492		3	S	Pole Rake	0		No Weeds
		W89.68905213	4	S	Pole Rake	0	0	No Weeds
		W89.68905575	3	S	Pole Rake	0	0	No Weeds
		W89.68905938	-	-	_	-	-	N/A Land
	N44.80324429		4	S	Pole Rake	0	0	No Weeds
		W89.68907389	4	S/M	Pole Rake	0	0	No Weeds
	N44.80054366		3	M	Pole Rake	0	0	-
		W89.68908114	3	S	Pole Rake	0	0	No Weeds
		W89.68908477	2	S	Pole Rake	0	0	No Weeds
		W89.68908839	9	-	-	-	-	N/A No Reading
		W89.68909202	13		<u> </u>			N/A No Reading
	N44.82147094		1	М	Pole Rake	0	0	No Weeds
		W89.68802733	-	-	-	-	<u> </u>	N/A Blocked By Logs
		W89.68803097	2	M	Pole Rake	0	0	No Weeds
		W89.68804553	3	W	Pole Rake	1	0	-
		W89.68804917	3	M	Pole Rake	1	0	-
		W89.68809284	2	M	Pole Rake	1	0	-
		W89.68809648	3	M	Pole Rake	0	0	No Woode
		W89.68810012	3	M	Pole Rake	0	0	No Weeds
		W89.68810376 W89.68810739	3	S	Pole Rake	0	0	No Weeds
		W89.68811103	2	S	Pole Rake Pole Rake	0	0	No Weeds
		W89.68811467	4	S	Pole Rake	0	0	No Weeds
		W89.68812558		M	Pole Rake	1	0	INO Weeds
		W89.68812922	2	M	Pole Rake	0	0	No Weeds
		W89.68813286	2	S	Pole Rake	0	0	No Weeds
		W89.68813649	8	-	- LOIG LAKE	<del>                                     </del>	-	N/A No Reading
		W89.68814013			<del></del>	-	-	N/A No Reading
		W89.68707142	2	M	Pole Rake	0	0	No Weeds
		W89.68707507		M	- OIG TARE	<del>                                     </del>	-	N/A Shallow Muck
		W89.68710063	4	M	Pole Rake	0	0	No Weeds
		W89.68710428	4	M	Pole Rake	0	0	No Weeds
		W89.68714809		W	Pole Rake	0	0	No Weeds
		W89.68715174	4	M/W	Pole Rake	1 0	0	No Weeds
		W89.68715539	5	s	Pole Rake	Ö	Ö	No Weeds
		W89.68715903	4	s	Pole Rake	1 0	0	No Weeds
		W89.68716268		S	Pole Rake	ō	Ō	No Weeds
		W89.68716633	5	S	Pole Rake	0	0	No Weeds
		W89.68716998	-	M	-	-	-	N/A Shallow Muck
		W89.68717363	1	М	Pole Rake	0	0	-
		W89.68718093		S/M	Pole Rake	0	0	No Weeds
		*		-				

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900 County: Marathon

EWM = Eurasian Water Milfoil G = Gravel

N/A = Not Accessible

W = Woody Debris S = Sand

M = Muck

CLP = Curly-leaf Pondweed
NWM = Northern Water Milfoil R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.) Crew: RAL/CTM

Datum	: WGS84		NWM =	Northern Wa	ater Milfoil	Rk = Ro	ck	
Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
457		W89.68718457	8	-	-	-	-	N/A No Reading
	N44.79918816		14	_	_	-		N/A No Reading
		W89.68612646	1	М	Pole Rake	0	0	No Weeds
		W89.68613012	1	М	Pole Rake	0	0	No Weeds
	N44.81538933		4	W	Pole Rake	0	0	No Weeds
		W89.68615576	4	M	Pole Rake	0	0	No Weeds
		W89.68620335	5	S	Pole Rake	0		No Weeds
		W89.68620701	5	М	Pole Rake	0		No Weeds
		W89.68621067	6	M	Pole Rake	0	0	No Weeds
		W89.68621433	5	S	Pole Rake	0	0	No Weeds
		W89.68621799	5	s	Pole Rake	0	0	No Weeds
	N44.80188619		1	М	Pole Rake	0	0	-
		W89.68622897	3	M.	Pole Rake	0	0	No Weeds
		W89.68623263	10	-		-	-	N/A No Reading
		W89.68623629	11		_	_	_	N/A No Reading
		W89.68518152	2	M	Pole Rake	0	0	No Weeds
		W89.68518519		-	- CIO INGRE	<del>  _</del>	<u> </u>	N/A Blocked By Down Tree
		W89.68520356	4	w	Pole Rake	0	0	No Weeds
		W89.68520723	4	M	Pole Rake	0	0	No Weeds
		W89.68525497	· 4	M	Pole Rake	0	0	No Weeds
		W89.68525864	6	M	Pole Rake	0	0	No Weeds
		W89.68526232	6	M	Pole Rake	0	0	No Weeds
		W89.68526599	7	-	- TOIC TRAKE			N/A No Reading
		W89.68526966	18		· *	<del> </del>		N/A No Reading
		W89.68527333	15	<u> </u>	_	<del>  -</del> -		N/A No Reading
	N44.80233874 N44.80188358		16					N/A No Reading
		W89.68528067	13	_	_	<del> </del>	<del></del>	N/A No Reading
		W89.68423292	2	М	Pole Rake	0	0	No Weeds
	N44.81875988		2	M	Pole Rake	1 0	0	No Weeds
		W89.68425502	4	M	Pole Rake	0	0	No Weeds
		W89.68425871	3	M	Pole Rake	1 1	0	_
		W89.68431027	6	S/M	Pole Rake	<del>                                     </del>	0	No Weeds
		W89.68431396	6	M	Pole Rake	0	0	No Weeds
		W89.68431764	7	- ''	1 OIC TRAKE	<u> </u>	<u> </u>	N/A No Reading
		W89.68432132	10	-	_	<u> </u>	<del> </del>	N/A No Reading
	N44.80255612		8			<del> </del>	<del></del>	N/A No Reading
		W89.68328431	2	M	Pole Rake	0	0	No Weeds
		W89.68328801		M	Pole Rake	1 0	0	No Weeds
		W89.68330649	4	M	Pole Rake	1 0	0	No Weeds
		W89.68331018		M	Pole Rake	1 1	0	-
	N44.80457897		6	M	Pole Rake	<del>                                     </del>		No Weeds
		W89.68336929	6	M	Pole Rake	1 6	0	No Weeds
		W89.68337298	4	G	Pole Rake	0	0	-
		W89.68233571		М	Pole Rake	1 0	0	No Weeds
		W89.68233942	2	S	Pole Rake	1 0	0	No Weeds
		W89.68235795	3	М	Pole Rake	1 0	0	No Weeds
		W89.68236166	A Comment of the Comm	M	Pole Rake	1 1	0	-
	the state of the s	W89.68138711		M	Pole Rake	6	0	No Weeds
		W89.68139083	2	M	Pole Rake	1 0	0	No Weeds
		W89.68140942	3	M	Pole Rake	1 1	0	-
		W89.68141313		M	Pole Rake	<del>                                     </del>	0	
		W89.68043851	-	M	- I, OIO I MARK	<del>                                     </del>	<del>  _</del>	N/A Shallow Muck
		W89.68046088	2	M	Pole Rake	1	0	
	N44.8146984	W89.68046461		M	Pole Rake	0	<del>0</del>	
	N44.81604605		2	M	Pole Rake	1 0	0	No Weeds
		W89.67951234		M	Pole Rake	1 0	0	
		W89.67856006	2	M	Pole Rake	1 0	1 0	No Weeds
	1	1	<del></del>	<u></u>			<del></del>	

Project/Lake: Mosinee/Mosinee Flowage (518 Sample points)

Date: 7/18/2007, 7/19/2007, 7/20/2007, & 7/21/2007

WBIC: 1334900

S = Sand EWM = Eurasian Water Milfoil G = Gravel

County: Marathon Crew: RAL/CTM

CLP = Curly-leaf Pondweed

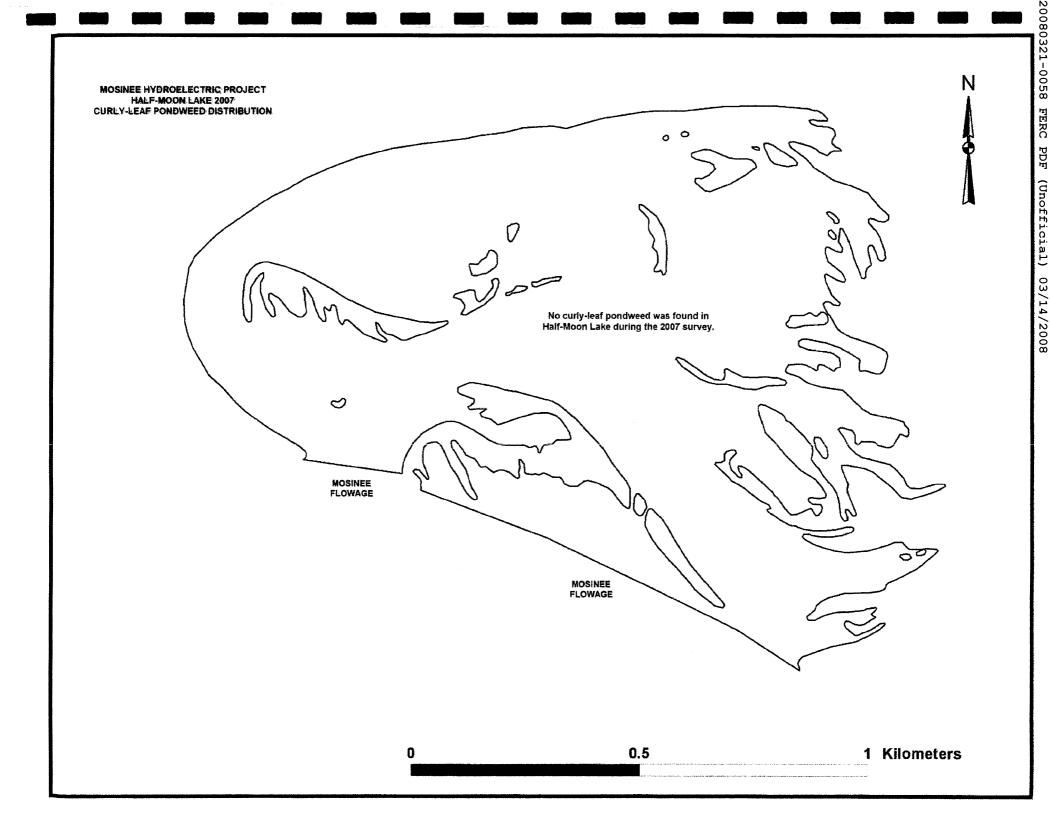
M = Muck

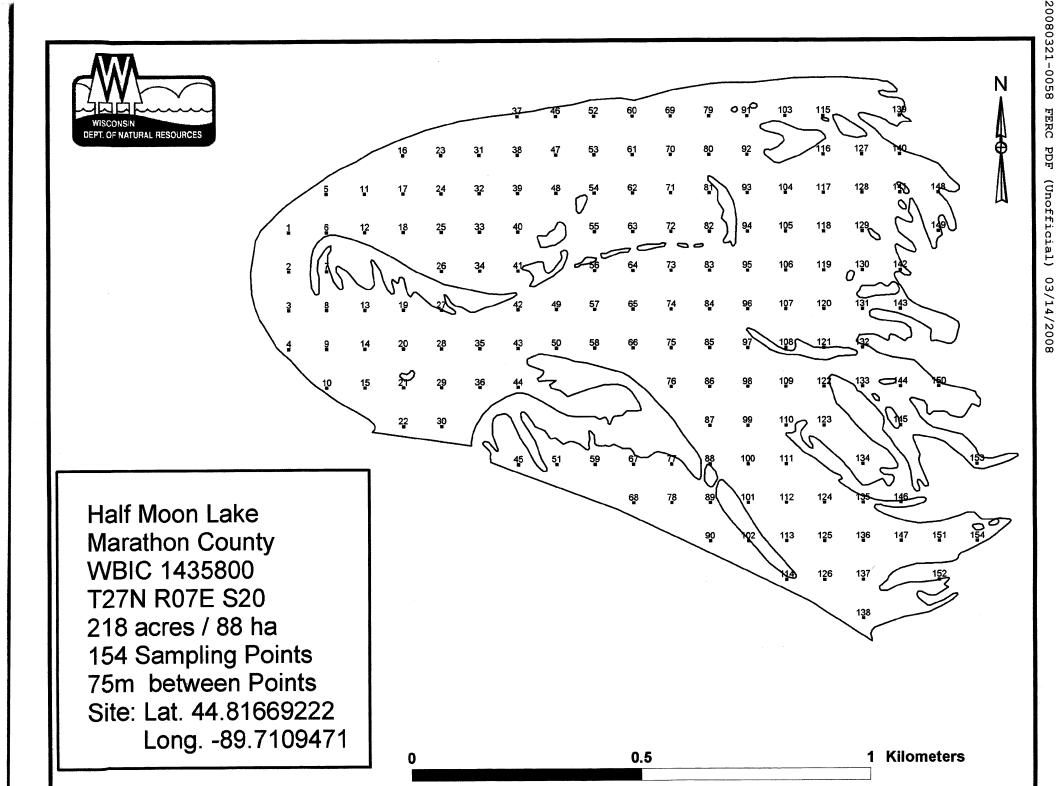
N/A = Not Accessible

W = Woody Debris

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

Datum	: WGS84		NWM =	Northern Wa	ater Milfoil	Rk = Ro		
Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
514	N44.81536823	W89.67856381	1 2	М	Pole Rake	0		-
515	N44.81604071	W89.67761151	2	М	Pole Rake	0	0	-
516	N44.81603803	W89.67666296	2	М	Pole Rake	0	0	-
517	N44.81603534	W89.67571442	1	М	Pole Rake	0	0	No Weeds
518	N44.8167078	W89.67476208	1	М	Pole Rake	0		No Weeds
							<u> </u>	
								·





Project/Lake: Mosinee/Half Moon Lake (154 Sample points)

Date: 7/16/2007 & 7/17/2007

WBIC: 1435800

County: Marathon Crew: RAL/CTM

EWM = Eurasian Water Milfoil G = Gravel

CLP = Curly-leaf Pondweed

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

N/A = Not Accessible

W = Woody Debris

M = Muck

S = Sand

	: WGS84			Northern W				i.e. Lily Pads, Pickerei Weed, etc.)
						Rk = Rc		
Point				Sediment			CLP	Comments
	N44.81669222		9	M	Pole Rake	0		No Weeds
		W89.71095047	6	S	Pole Rake	0		No Weeds
		W89.71095385	8	M	Pole Rake	0	0	No Weeds
		W89.71095722	7	S/W	Pole Rake	0	0	No Weeds
5	N44.81736497	W89.70999516	9	М	Pole Rake	0	0	No Weeds
6	N44.81668981	W89.70999854	2	S	Pole Rake	0	0	No Weeds
7	N44.81601466	W89.71000192	2	S/M	Pole Rake	0	0	No Weeds
8	N44.8153395	W89.71000531	6	М	Pole Rake	0	0	No Weeds
9	N44.81466434	W89.71000869	7	S	Pole Rake	0	0	No Weeds
10	N44.81398918	W89.71001207	6	W	Pole Rake	0	0	No Weeds
11	N44.81736256	W89.70904658	. 8	М	Pole Rake	0	0	No Weeds
12	N44.8166874	W89.70904998	7	М	Pole Rake	0		No Weeds
		W89.70905677	6	М	Pole Rake	0		No Weeds
		W89.70906016	4	W	Pole Rake	0		No Weeds
		W89.70906356	6	W	Pole Rake	0		No Weeds
	N44.8180353		7	M	Pole Rake	0	0	No Weeds
	N44.81736014		6	W	Pole Rake	0	0	No Weeds
		W89.70810142	7	M	Pole Rake	0	0	No Weeds
		W89.70810823	6	W	Pole Rake	0	0	No Weeds
		W89.70811164	3	S	Pole Rake	0		No Weeds
		W89.70811504	6	W	Pole Rake	0		No Weeds
		W89.70811845	9					
			6	- \		-		N/A No Reading
		W89.70714603		W	Pole Rake	0		No Weeds
		W89.70714944	6	M	Pole Rake	0		No Weeds
		W89.70715286	5	M/W	Pole Rake	0		No Weeds
		W89.70715628	4	M/W	Pole Rake	0		No Weeds
		W89.70715969	2	S	Pole Rake	0		No Weeds
	N44.81465708		10			-		N/A No Reading
		W89.70716653	11					N/A No Reading
		W89.70716995	10	M	Pole Rake	0		No Weeds
		W89.70619744	6	M	Pole Rake	0		No Weeds
		W89.70620087	5	W	Pole Rake	0		No Weeds
	N44.81668012		4	M/S	Pole Rake	0		No Weeds
		W89.70620773	3	S	Pole Rake	0	0	No Weeds
		W89.70621459	11	-	-	-		N/A No Reading
36	N44.81397949	W89.70621801	3	S	Pole Rake	0	0	No Weeds
		W89.70524542	6	M	Pole Rake	0		No Weeds
		W89.70524886	6	W/M	Pole Rake	0	0	No Weeds
	N44.81735283		5	S	Pole Rake	0	0	No Weeds
40	N44.81667767	W89.70525574	4	M/S	Pole Rake	0	0	No Weeds
41	N44.81600251	W89.70525918	1	S	Pole Rake	0		No Weeds
		W89.70526262	10	-	_	-	-	N/A No Reading
		W89.70526606	4	S	Pole Rake	0	0	No Weeds
	N44.81397704		2	S	Pole Rake	0	0	No Weeds
		W89.70527638	3	М	Pole Rake	0	0	No Weeds
		W89.70429683	4	S	Pole Rake	0	0	No Weeds
		W89.70430028	5	M	Pole Rake	0	0	No Weeds
-		W89.70430373	3	S	Pole Rake	0	0	No Weeds
		W89.70431408	11	0 -	. c.o rano			N/A No Reading
		W89.70431753	2	S	Pole Rake	0	0	No Weeds
		W89.70432788	4	<u>М</u>	Pole Rake	0	0	No Weeds
		W89.70334824	4	S	Pole Rake	0	0	No Weeds
	N44.81802307		1	S			0	No Weeds
	11444.01002307	VV09.7033317		<u> </u>	Pole Rake	0		Ino Meeas

Project/Lake: Mosinee/Half Moon Lake (154 Sample points)

Date: 7/16/2007 & 7/17/2007

W = Woody Debris

M = Muck

N/A = Not Accessible

S = Sand

WBIC: 1435800 County: Marathon

EWM = Eurasian Water Milfoil G = Gravel

CLP = Curly-leaf Pondweed Crew: RAL/CTM

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

Datum: WGS84 NWM = Northern Water Milfoil Rk = Rock

Datum:	Datum: WGS84 NWM = Northern Water Milfoil				Rk = Rock			
Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
54	N44.81734792	W89.70335516	5	М	Pole Rake	0	0	No Weeds
		W89.70335862	4	M	Pole Rake	0		No Weeds
		W89.70336208	4	S	Pole Rake	0		No Weeds
		W89.70336555	10	-	- Olo Flake	-		N/A No Reading
	N44.81464729		7	S	Pole Rake	0	0	No Weeds
		W89.70337939	5	M	Pole Rake	0	0	No Weeds
		W89.70239965	4	S	Pole Rake	0	0	No Weeds
			5	M		0	0	No Weeds
		W89.70240312			Pole Rake	0	0	
		W89.70240659	3	S/W	Pole Rake			No Weeds
		W89.70241006	3	S/M	Pole Rake	0	0	No Weeds
		W89.70241354	5	W	Pole Rake	0		No Weeds
		W89.70241701	9	M	Pole Rake	0	0	No Weeds
		W89.70242048	9			-		N/A No Reading
	N44.81261935		4	M	Pole Rake	0	0	No Weeds
		W89.70243437	6	W/S	Pole Rake	0	0	No Weeds
		W89.70145105	4	M	Pole Rake	0	0	No Weeds
		W89.70145454	2	S/W	Pole Rake	0		No Weeds
		W89.70145802	3	M	Pole Rake	0		No Weeds
72	N44.81666782	W89.7014615	3	S/W	Pole Rake	0		No Weeds
73	N44.81599266	W89.70146499	4	, <b>W</b>	Pole Rake	0	0	No Weeds
74	N44.8153175	W89.70146847	4	W	Pole Rake	0	0	No Weeds
		W89.70147195	9	М	Pole Rake	0	0	No Weeds
		W89.70147544	.9	M	Pole Rake	0	0.,	No Weeds
	N44:81261687		4	М	Pole Rake	0	0	No Weeds
		W89.70148589	4	S	Pole Rake	0	0	No Weeds
		W89.70050246	3	S/W	Pole Rake	0	0	No Weeds
		W89.70050596	3	R	Pole Rake	0		No Weeds
		W89.70050945	3	М	Pole Rake	0		No Weeds
		W89.70051295	2	S	Pole Rake	0	0	No Weeds
		W89.70051644	5	W	Pole Rake	0	0	No Weeds
		W89.70051993	4	w	Pole Rake	0	0	No Weeds
		W89:70052343	5	W	Pole Rake	ő	0.	No Weeds
		W89.70052692	8	M	Pole Rake	0	0	No Weeds
		W89 70053042	8	M	Pole Rake	ő	0	No Weeds
		W89:70053391	4	S	Pole Rake	0	0	No Weeds
		W89.70053741	3	S	Pole Rake	0	0	No Weeds
	N44.81126407		7	M	Pole Rake	0	0	No Weeds
	and the second s				4 12 .	1		
		W89.69955387		M/W	Pole Rake	0		No Weeds No Weeds
		W89.69955738	4	M	*Pole Rake	0	<del></del>	
		W89.69956088		M	Pole Rake	0	0	No Weeds
		W89.69956439		W/M	Pole Rake	0	0	No Weeds
		W89.69956789		W	Pole Rake	0	0	No Weeds
	N44.81531253		3	W	Pole Rake	10	0	No Weeds
	N44.81463737		2	S	Pole Rake	0	0	No Weeds
		W89.69957841	4	S	Pole Rake	0	0	No Weeds
		W89.69958191		M	, Pole Rake	0	0	No Weeds
		W89.69958542		M	Pole Rake	0	0	No Weeds
		W89.69958892		M	Pole Rake	0	0	No Weeds
		W89.69959243		S	Pole Rake	0	0	No Weeds
		W89.69860528		S/M	*Pole Rake	0	0	No Weeds
104	N44.8173355	W89.69861231	4	M	∴Pole Rake	0	: 0	No Weeds
105	N44.81666034	W89.69861583	4	М	Pole Rake	0	0	No Weeds
106	N44.81598519	W89.69861935	4	W/M	Pole Rake	0	0	No Weeds

Project/Lake: Mosinee/Half Moon Lake (154 Sample points)

Date: 7/16/2007 & 7/17/2007

WBIC: 1435800

County: Marathon Crew: RAI /CTM

EWM = Eurasian Water Milfoil G = Gravel

CLP = Curly-leaf Pondweed

N/A = Not Accessible

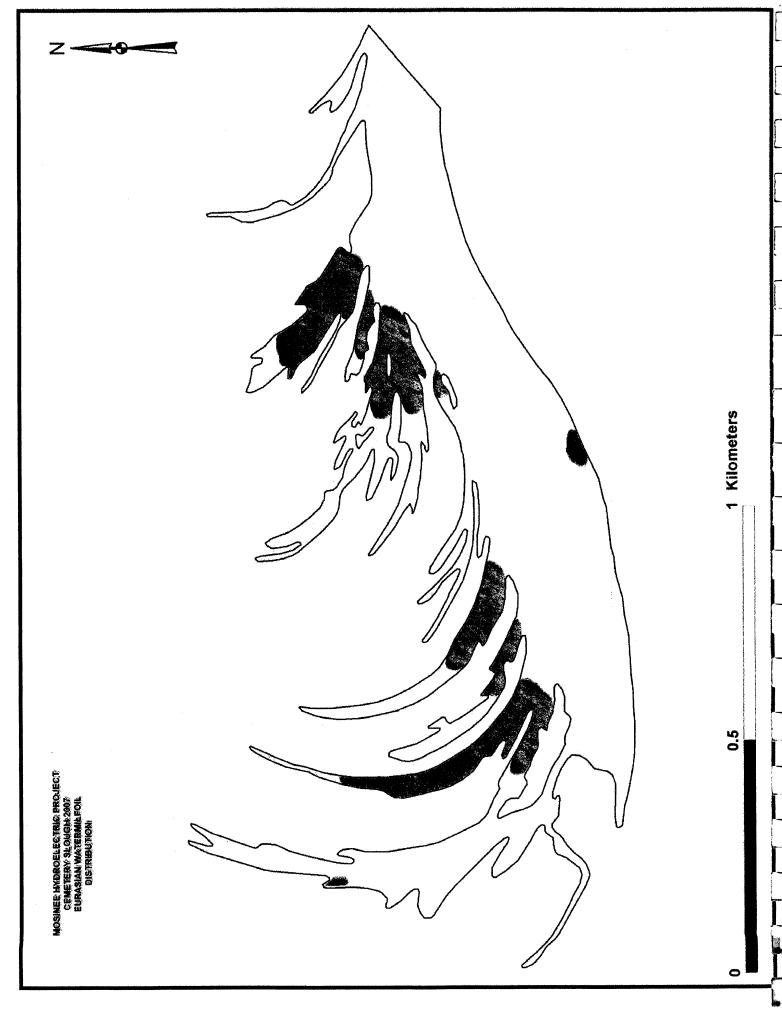
M = Muck

W = Woody Debris

S = Sand

R = Root Mass (i.e. Lilv Pads Pickerel Weed etc.)

Crew:	RAL/CTM				R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)			
Datum	: WGS84		NWM =	Northern W	ater Milfoil	Rk = Ro	ck	•
Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
		W89.69862286	3	W/S	Pole Rake	0	0	No Weeds
		W89.69862638	2	S/W	Pole Rake	0	0	No Weeds
		W89.69862989	3	M	Pole Rake	0	0	No Weeds
	N44.81328456		2	S	Pole Rake	0	0	No Weeds
		W89.69863693	6	M	Pole Rake	0	0	No Weeds
		W89.69864044	6	S/M	Pole Rake	0	0	No Weeds
		W89.69864396	5	W	Pole Rake	0	0	No Weeds
		W89.69864748	4	S	Pole Rake	0	0	No Weeds
		W89.69765669	-	- 3	Fole Nake	-		N/A Land
		W89.69766021	4	M	Pole Rake	0	0	No Weeds
		W89.69766374	3	M	Pole Rake	0	0	No Weeds
		W89.69766727	3	M	Pole Rake	0	0	No Weeds
	N44.81598268		4	M	Pole Rake	0	0	No Weeds
		W89.69767433	2	S/M		0		No Weeds
		W89.69767785	1		Pole Rake		0	
				S	Pole Rake	0		No Weeds
		W89.69768138	1	S	Pole Rake	0	0	No Weeds
		W89.69768491	2	W/M	Pole Rake	0	0	No Weeds
		W89.69769196	5	M	Pole Rake	0	0	No Weeds
		W89.69769549	4	W	Pole Rake	0	0	No Weeds
		W89.69769902	5	W	Pole Rake	0	0	No Weeds
		W89.69671163	3	M	Pole Rake	0		No Weeds
		W89.69671517	3	M	Pole Rake	0		No Weeds
	N44.81665532		2	S/M	Pole Rake	0		No Weeds
		W89.69672225	2	S/M	Pole Rake	.0	0	No Weeds
		W89.69672579	2	W/M	Pole Rake	0	0	No Weeds
		W89.69672933	1	S	Pole Rake	0	0	No Weeds
		W89.69673287	1	M	Pole Rake	0	0	No Weeds
		W89.69673994	1	W	Pole Rake	0	0	No Weeds
		W89.69674348	1	S	Pole Rake	0	0	No Weeds
		W89.69674702	4	М	Pole Rake	0	0	No Weeds
		W89.69675056	2	S	Pole Rake	0	0	No Weeds
	N44.80990375		3	S	Pole Rake	0	0	No Weeds
	N44.81867827		-	_		-	-	N/A Land
		W89.69576305	3	M	Pole Rake	0	0	No Weeds
	N44.81732795		1	S	Pole Rake	0	0	No Weeds
	N44.81597764		_	-	-	-	-	N/A Land
143	N44.81530248	W89.69577725	1	М	Pole Rake	0	0	No Weeds
		W89.69578435	1	W/M	Pole Rake	0	0	No Weeds
	N44.81327701			_	-	-	-	N/A Too Shallow
146	N44.8119267	W89.695795	-	-	-	-	-	N/A Land
147	N44.81125154	W89.69579855	2	М	Pole Rake	0	0 ;	No Weeds
148	N44.81732542	W89.69481803	-	-	-	-	-	N/A Land
149	N44.81665027	W89.6948216	-	-	_	-	-	N/A Land
150	N44.81394964	W89.69483584	-	1	_	-		N/A Too Shallow
151	N44.81124901	W89.69485008	2	М	Pole Rake	0	0	No Weeds
		W89.69485364	-	-	-	-	-	N/A Land
153	N44.81259679	W89.69389447	-	-	-	-	-	N/A Too Shallow
154	N44.81124647	W89.69390161	-	_	-	-	-	N/A Land
					<del></del>			
<b>—</b>								



Project/Lake: Mosinee/Cemetery Slough - (102 Sample points)

Date: 7/20/2007 & 7/21/2007

WBIC: 1435700

County: Marathon

EWM = Eurasian Water Milfoil

N/A = Not Accessible

M = Muck

W = Woody Debris

S = Sand G = Gravel

CLP = Curly-leaf Pondweet   Nov. Met Northern Water Millot   Nat. Northern Water Millot   Nat. Northern Water Millot   Nat. Nat. Nat. Nat. Nat. Nat. Nat. Nat.	-	Marathon				vater ivillion			2 19 D d D21 134 1 - 4- 3
Point					•				i.e. Lily Pads, Pickerel Weed, etc.)
1 N44 80391262   W89 72766825   1 M									
2 N44.80322736   W99.72767143   2   M				Depth	Sediment		EWM		Comments
3 NA4.8025622   W89.72767746   2				1	М	Pole Rake	1	0	-
A   M.44.80188704   W99.72767778	2	N44.80323736	W89.72767143	2	M	Pole Rake	0	0	No Weeds
A N.44.80188704   W99.72767778   1	3	N44.8025622	W89.7276746	2	M	Pole Rake	0	0	No Weeds
5 NA4.80593573 W88.72671303         2         M         Pole Rake         0         0         No Weeds           6 NA4.80526057 W89.72671362         2         M         Pole Rake         0         0         No Weeds           7 N44.8018447 W89.72673286         2         M         Pole Rake         0         0         No Weeds           8 N44.80120961 W89.72673853         1         M         Pole Rake         0         0         No Weeds           10 N44.79985702 W89.72673833         1         M         Pole Rake         0         0         No Weeds           10 N44.79985702 W89.72673973         1         M         Pole Rake         0         0         No Weeds           12 N44.80323054 W89.72482861         1         M         Pole Rake         0         0         No Weeds           13 N44.80188022 W89.72482826 1         1         M         Pole Rake         0         0         No Weeds           15 N42.8005299 W89.72483281 1         1         M         Pole Rake         0         0         No Weeds           15 N42.8005299 W89.72483894 1         1         M         Pole Rake         0         0         No Weeds           15 N44.80187729 W89.7238945 1         1         M <td< td=""><td>4</td><td></td><td></td><td>1</td><td>М</td><td></td><td>0</td><td>0</td><td>No Weeds</td></td<>	4			1	М		0	0	No Weeds
6 NA4.80526057         W89.72671362         2         M         Pole Rake         0         0         No Weeds           7 NA4.80182961         W89.72673265         2         M         Pole Rake         0         0         No Weeds           9 NA4.80053445         W89.72673285         2         M         Pole Rake         0         0         No Weeds           9 NA4.80053445         W89.726735853         1         M         Pole Rake         0         0         No Weeds           11 N44.8039057         W89.72482319         -         M         -         -         N/A Shallow Muck           12 N44.8039057         W89.7248284         1         M         Pole Rake         0         0         No Weeds           13 N44.80255538         W89.72483924         1         M         Pole Rake         0         0         No Weeds           15 N44.80052761         W89.72483924         1         M         Pole Rake         0         0         No Weeds           16 N44.7985042         W89.72483938         -         -         -         -         N/A Shallow Muck           18 N44.80052761         W89.72293978         -         -         -         N/A Shallow Muck				2			0	0	
T Nu44_80188477   W88_72672946   2								0	
8 NA4.80120961         W89.72673265         2         M         Pole Rake         0         0         No Weeds           9 N44.80053445         W89.72679533         1         M         Pole Rake         0         0         No Weeds           10 N44.79985702         W89.72579073         1         M         Pole Rake         0         0         No Weeds           11 N44.8039057         W89.7248234         1         M         Pole Rake         0         0         No Weeds           13 N44.802555538         W89.72482961         1         M         Pole Rake         0         0         No Weeds           15 N44.8005299         W89.72483282         2         M         Pole Rake         0         0         No Weeds           15 N44.8005299         W89.7238934         1         M         Pole Rake         0         0         No Weeds           16 N44.79850213         W89.72389738         -         -         -         -         N/A Shallow Muck           16 N44.80052761         W89.72398094         1         M         Pole Rake         2         0         -           17 N44.80167733         W89.72293293         -         -         -         -         N/A Shallow Muck<									
9   N44,8005345   W89,72679073   1									
10   M44.79985702   W89.7259073   1   M   Pole Rake   0   0   No Weeds   11   N44.80339057   W89.72482319   - M   N/A Shallow Muck   12   N44.80323054   W89.72482861   1   M   Pole Rake   0   0   No Weeds   13   N44.80255538   W89.724828261   1   M   Pole Rake   0   0   No Weeds   14   N44.801805289   W89.72483282   2   M   Pole Rake   0   0   No Weeds   15   N44.8005299   W89.72483924   1   M   Pole Rake   0   0   No Weeds   16   N44.79850442   W89.72483924   1   M   Pole Rake   0   0   No Weeds   16   N44.79850442   W89.7238935   - M     N/A Shallow Muck   18   N44.80052761   W89.72389094   1   M   Pole Rake   2   0   No Weeds   18   N44.80052761   W89.72389094   1   M   Pole Rake   2   0   No Weeds   20   N44.79850213   W89.7239906   1   M   Pole Rake   2   0   No Weeds   21   N44.80390111   W89.72389006   1   M   Pole Rake   0   0   No Weeds   22   N44.80322595   W89.72292649     N/A Shallow Muck   23   N44.80322595   W89.72292395   - M   -   N/A Shallow Muck   24   N44.800525517   W89.72293295   - M   -   N/A Shallow Muck   24   N44.800525519   W89.72293295   - M   -   N/A Shallow Muck   25   N44.79845015   W89.72294588   2   M   Pole Rake   1   0   No Weeds   25   N44.79845015   W89.72294588   2   M   Pole Rake   1   0   No Weeds   25   N44.7984983   W89.7229534   2   M   Pole Rake   0   0   No Weeds   25   N44.7984798   W89.7229534   2   M   Pole Rake   0   0   No Weeds   25   N44.7984795   W89.72194506   1   M   Pole Rake   0   0   No Weeds   25   N44.7984795   W89.72194506   1   M   Pole Rake   0   0   No Weeds   25   N44.79984765   W89.72194506   1   M   Pole Rake   0   0   No Weeds   25   N44.79984765   W89.72194606   1   M   Pole Rake   0   0   No Weeds   25   N44.79984755   W89.72104606   1   M   Pole Rake   0   0   No Weeds   25   N44.79984765   W89.72104606   1   M   Pole Rake   0   0   No Weeds   25   N44.79916308   W89.72105561   2   M   Pole Rake   0   0   No Weeds   25   N44.79916573   W89.71915601   3   M   Pole Rake   0   0   No Weeds   25   N44.79916573   W89.71915601									
11   N44 8039057   W89 72482319 - M									
12  N44.80323054 W89.7248264						r ole Make			
13   M44 80255538   W89.72482961   1						Polo Poko			
14   N44,80188022   W89.72483282   2									
15   N44,8005299   W89,72483924   1   M   Pole Rake   0   0   No Weeds									
16   N44.79850442   W89.72484887									
17   M44, 80187733   W89, 72389094				. 1		Pole Rake			
18   N44.80052761   W89.72389094   1   M   Pole Rake   2   0   - N/A Shallow Muck   20   N44.79917729   W89.72389738   - M   N/A Shallow Muck   20   N44.79950213   W89.7239006   1   M   Pole Rake   0   0   No Weeds   21   N44.80390111   W89.72292649   N/A Blocked By Logs   22   N44.80325595   W89.72293295   - M   N/A Blocked By Logs   23   N44.80255079   W89.72293295   - M   N/A Shallow Muck   24   N44.80052531   W89.72294265   1   S   Pole Rake   0   0   No Weeds   25   N44.79985015   W89.72294588   2   M   Pole Rake   1   0   -   N/A Shallow Muck   27   N44.79948983   W89.722945911   - M   N/A Shallow Muck   27   N44.79949983   W89.7229534   2   M   Pole Rake   0   0   No Weeds   28   N44.80187333   W89.72198787   1   M   Pole Rake   0   0   No Weeds   29   N44.79949753   W89.72290408   2   M   Pole Rake   0   0   No Weeds   31   N44.80119586   W89.7210408   2   M   Pole Rake   0   0   No Weeds   31   N44.80119586   W89.72104081   2   M   Pole Rake   0   0   No Weeds   31   N44.79917039   W89.72104606   1   M   Pole Rake   0   0   No Weeds   33   N44.79948564   W89.72104931   2   M   Pole Rake   0   0   No Weeds   34   N44.79917039   W89.72104066   1   M   Pole Rake   0   0   No Weeds   34   N44.79917039   W89.72104051   2   M   Pole Rake   0   0   No Weeds   35   N44.79948052   W89.72105581   2   M   Pole Rake   0   0   No Weeds   36   N44.79948052   W89.72105581   2   M   Pole Rake   0   0   No Weeds   37   N44.79948052   W89.72101002   2   M   Pole Rake   0   0   No Weeds   38   N44.79948052   W89.7210755   3   M   Pole Rake   0   0   No Weeds   39   N44.8005607   W89.71914291     N/A Blocked By Logs   N44.8005606   W89.719115274   3   M   Pole Rake   0   0   No Weeds   39   N44.8005606   W89.719115274   3   M   Pole Rake   0   0   No Weeds   41   N44.79984089   W89.71915001   3   M   Pole Rake   0   0   No Weeds   42   N44.79984089   W89.71818145     N/A Blocked By Logs   N44.8005606   W89.71915001   3   M   Pole Rake   0   0   No Weeds   44   N44.80				-					
19   N44.79917729   W99.72389738   - M				-			-	-	N/A Shallow Muck
20				1		Pole Rake	2	0	<u>-</u>
21 N44.80390111   W89.72292649				-	M.	-	_	-	
22 N44.80322595 W89.72292972	20	N44.79850213	W89.7239006	1	M	Pole Rake	0	0	No Weeds
23 N44.80255079 W89.72293295 - M N/A Shallow Muck 24 N44.80052531 W89.72294265 1 S Pole Rake 0 0 No Weeds 25 N44.79985015 W89.72294588 2 M Pole Rake 1 0 - 26 N44.79917499 W89.72294911 - M N/A Shallow Muck 27 N44.79849983 W89.72295234 2 M Pole Rake 0 0 No Weeds 28 N44.8018733 W89.72198787 1 M Pole Rake 0 0 No Weeds 29 N44.79849755 W89.72199759 2 M Pole Rake 0 0 No Weeds 30 N44.79849753 W89.7220408 2 M Pole Rake 0 0 No Weeds 31 N44.80119586 W89.7210428 1 M Pole Rake 0 0 No Weeds 32 N44.8005207 W89.7210428 1 M Pole Rake 0 0 No Weeds 32 N44.805207 W89.72104931 2 M Pole Rake 0 0 No Weeds 34 N44.79984952 W89.7210456 1 M Pole Rake 0 0 No Weeds 35 N44.79984554 W89.72104931 2 M Pole Rake 0 No Weeds 36 N44.79984952 W89.72105256 2 M Pole Rake 0 No Weeds 37 N44.7991608 W89.7210429 3 M Pole Rake 0 No Weeds 38 N44.79984952 W89.7210429 3 M Pole Rake 0 No Weeds 38 N44.7998606 W89.72010429 3 M Pole Rake 0 No Weeds 39 N44.80186637 W89.72101429 3 M Pole Rake 0 No Weeds 39 N44.80186637 W89.72101429 3 M Pole Rake 0 No Weeds 39 N44.80186637 W89.71915274 3 M Pole Rake 0 No Weeds 41 N44.79984089 W89.71915274 3 M Pole Rake 0 No Weeds 41 N44.79984089 W89.71915274 3 M Pole Rake 0 No Weeds 42 N44.79916573 W89.71915274 3 M Pole Rake 0 No Weeds 43 N44.79984089 W89.71915274 3 M Pole Rake 0 No Weeds 44 N44.79946673 W89.71915274 3 M Pole Rake 0 No Weeds 45 N44.80118887 W89.71915274 3 M Pole Rake 0 No Weeds 46 N44.80051605 W89.71915929 1 G Pole Rake 0 No Weeds 47 N44.79984089 W89.71915929 1 G Pole Rake 0 No Weeds 48 N44.8018887 W89.71818145 - M N/A Blocked By Logs 46 N44.80051805 W89.71818145 - M N/A Blocked By Logs 46 N44.80051807 W89.71818145 - M N/A Blocked By Logs 46 N44.80051807 W89.71820774 3 M Pole Rake 0 No Weeds 47 N44.79983855 W89.71819788 N/A Blocked By Logs 48 N44.80051807 W89.71723638 - M N/A Shallow Muck 45 N44.80118887 W89.71723638 - M N/A Shallow Muck 50 N44.80118653 W89.71723687 N/A Shallow Muck 50 N44.80118653 W89.71725617 3 M Pole Rake 0 No Weeds	21	N44.80390111	W89.72292649	-		-	-	-	N/A Blocked By Logs
24         N44.80052531         W89.72294265         1         S         Pole Rake         0         0         No Weeds           25         N44.79985015         W89.72294588         2         M         Pole Rake         1         0         -         -         -         -         N. Ward         -         -         -         N. Ward         -         -         -         N. Ward         N. Ward         N. Ward         -         -         -         N. Ward         N. Ward         -         -         -         -         N. Ward         N. Ward         -         -         -         -         -         -         -         N. Ward         -	22	N44.80322595	W89.72292972	-	-	-	-	-	N/A Blocked By Logs
24 N44.80052531         W89.72294265         1         S         Pole Rake         0         0         No Weeds           25 N44.79985015         W89.72294588         2         M         Pole Rake         1         0         -           26 N44.7991499         W89.72295234         2         M         Pole Rake         0         0         No Weeds           28 N44.80187333         W89.72198787         1         M         Pole Rake         0         0         No Weeds           29 N44.79984785         W89.72200408         2         M         Pole Rake         0         0         No Weeds           31 N44.80119586         W89.7210428         1         M         Pole Rake         0         0         No Weeds           32 N44.8005207         W89.7210428         1         M         Pole Rake         0         0         No Weeds           33 N44.7994554         W89.72104931         2         M         Pole Rake         0         0         No Weeds           35 N44.79849522         W89.72105581         2         M         Pole Rake         0         0         No Weeds           35 N44.79849522         W89.72010581         2         M         Pole Rake         0				-	М	-	-	-	N/A Shallow Muck
25 N44.79985015         W89.72294588         2         M         Pole Rake         1         0         -           26 N44.79917499         W89.72294911         -         M         -         -         -         N/A Shallow Muck           27 N44.79849983         W89.72295234         2         M         Pole Rake         0         0         No Weeds           28 N44.80187333         W89.72198767         1         M         Pole Rake         0         0         No Weeds           29 N44.79984785         W89.72199759         2         M         Pole Rake         0         0         No Weeds           30 N44.79849753         W89.7210428         1         M         Pole Rake         0         0         No Weeds           31 N44.80119586         W89.7210428         1         M         Pole Rake         0         0         No Weeds           32 N44.8005207         W89.72104931         2         M         Pole Rake         0         0         No Weeds           35 N44.79849522         W89.72105556         2         M         Pole Rake         0         0         No Weeds           36 N44.79849522         W89.72010102         2         M         Pole Rake         0				1	S	Pole Rake	0	0	No Weeds
26 N44.79917499 W89.72294911 - M								0	-
27         N44.79849983         W89.72295234         2         M         Pole Rake         0         0         No Weeds           28         N44.80187333         W89.72198787         1         M         Pole Rake         0         0         No Weeds           29         N44.79849753         W89.72100408         2         M         Pole Rake         0         0         No Weeds           31         N44.80119586         W89.7210428         1         M         Pole Rake         0         0         No Weeds           32         N44.8005207         W89.72104931         2         M         Pole Rake         1         0         -           33         N44.79984554         W89.72105256         2         M         Pole Rake         0         0         No Weeds           34         N44.79984522         W89.72105256         2         M         Pole Rake         0         0         No Weeds           35         N44.79849522         W89.721010102         2         M         Pole Rake         0         0         No Weeds           37         N44.79916806         W89.72010755         3         M         Pole Rake         0         0         No Weeds				<del>-</del> -					N/A Shallow Muck
28 N44.80187333 W89.72198787 1 M Pole Rake 0 0 No Weeds 29 N44.79984785 W89.72199759 2 M Pole Rake 1 0 - 30 N44.79849753 W89.72200408 2 M Pole Rake 0 0 No Weeds 31 N44.80119586 W89.7210428 1 M Pole Rake 0 0 No Weeds 32 N44.8005207 W89.72104606 1 M Pole Rake 0 0 No Weeds 32 N44.80945207 W89.72104931 2 M Pole Rake 0 0 No Weeds 33 N44.79984554 W89.72104931 2 M Pole Rake 0 0 No Weeds 34 N44.79917038 W89.72105256 2 M Pole Rake 0 0 No Weeds 35 N44.79849522 W89.72105581 2 M Pole Rake 0 0 No Weeds 36 N44.79849522 W89.72010102 2 M Pole Rake 0 No Weeds 37 N44.79916806 W89.72010429 3 M Pole Rake 0 No Weeds 38 N44.7984929 W89.72010755 3 M Pole Rake 0 No Weeds 39 N44.80186637 W89.71914291 N/A Blocked By Logs 40 N44.80051605 W89.71914946 2 W/M Pole Rake 0 No Weeds 41 N44.79984089 W89.71915274 3 M Pole Rake 0 No Weeds 42 N44.79916573 W89.7191501 3 M Pole Rake 0 No Weeds 43 N44.7994089 W89.71915929 1 G Pole Rake 0 No Weeds 44 N44.80456467 W89.71818145 - M N/A Shallow Muck 45 N44.8018737 W89.71819788 N/A Blocked By Logs 46 N44.801887 W89.71820117 3 W Pole Rake 0 No Weeds 47 N44.80118887 W89.71820117 3 W Pole Rake 0 No Weeds 48 N44.79983855 W89.71820445 3 M Pole Rake 0 No Weeds 49 N44.80388717 W89.71820117 3 W Pole Rake 0 No Weeds 49 N44.80388717 W89.71820117 3 M Pole Rake 0 No Weeds 49 N44.80388717 W89.71820117 3 M Pole Rake 0 No Weeds 49 N44.8016837 W89.71820445 3 M Pole Rake 0 No Weeds 40 N44.80388717 W89.71820445 3 M Pole Rake 0 No Weeds 41 N44.8016839 W89.71820445 3 M Pole Rake 0 No Weeds 42 N44.8016837 W89.71820445 3 M Pole Rake 0 No Weeds 43 N44.8016837 W89.71820445 3 M Pole Rake 0 No Weeds 44 N44.8016838717 W89.71820445 3 M Pole Rake 0 No Weeds 45 N44.8016839 W89.71820445 3 M Pole Rake 0 No Weeds 46 N44.8016863 W89.71820445 3 M Pole Rake 0 No Weeds 47 N44.8016863 W89.71820445 3 M Pole Rake 0 No Weeds 48 N44.8016863 W89.71820445 3 M Pole Rake 0 No Weeds				2					
29 N44.79984785 W89.72199759 2 M Pole Rake 1 0 - 30 N44.79849753 W89.72200408 2 M Pole Rake 0 0 No Weeds 31 N44.80119586 W89.72104606 1 M Pole Rake 1 0 - 32 N44.8005207 W89.72104606 1 M Pole Rake 0 0 No Weeds 34 N44.79984554 W89.72104931 2 M Pole Rake 0 0 No Weeds 35 N44.79984554 W89.72105256 2 M Pole Rake 0 0 No Weeds 36 N44.79917038 W89.72105256 2 M Pole Rake 0 0 No Weeds 37 N44.79984322 W89.72105256 2 M Pole Rake 0 0 No Weeds 38 N44.79984322 W89.72010102 2 M Pole Rake 0 0 No Weeds 38 N44.79918606 W89.72010429 3 M Pole Rake 0 0 No Weeds 38 N44.79918606 W89.72010555 3 M Pole Rake 0 0 No Weeds 39 N44.80051605 W89.71914291 N/A Blocked By Logs 40 N44.80051605 W89.71914291 N/A Blocked By Logs 41 N44.7994809 W89.71914291 3 M Pole Rake 0 0 No Weeds 41 N44.79940057 W89.71915274 3 M Pole Rake 0 0 No Weeds 42 N44.79940573 W89.71915601 3 M Pole Rake 0 0 No Weeds 43 N44.79849057 W89.71915929 1 G Pole Rake 0 0 No Weeds 44 N44.80456467 W89.71818145 - M N/A Blocked By Logs 46 N44.80163371 W89.71819788 N/A Blocked By Logs 47 N44.8016339 W89.71820445 3 M Pole Rake 0 0 No Weeds 48 N44.8016339 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.80051371 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.80051371 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.80051371 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.80051371 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.80051371 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.8016339 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.8016339 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.8016339 W89.71820445 3 M Pole Rake 0 0 No Weeds 49 N44.80161371 W89.71723638 - M N/A Blocked By Logs 50 N44.8016137 W89.71723687 N/A Blocked By Logs 51 N44.80051371 W89.71725267 3 M Pole Rake 0 0 No Weeds									
30 N44.79849753 W89.72200408									_
31 N44.80119586 W89.7210428					<del></del>				No Woods
32 N44.8005207 W89.72104606									
33 N44.79984554 W89.72104931									No vveeus
34         N44.79917038         W89.72105256         2         M         Pole Rake         0         0         No Weeds           35         N44.79849522         W89.72105581         2         M         Pole Rake         0         0         No Weeds           36         N44.79984322         W89.72010429         3         M         Pole Rake         0         0         No Weeds           37         N44.7984929         W89.72010755         3         M         Pole Rake         0         0         No Weeds           38         N44.7984929         W89.71914291         -         -         -         -         N/A Blocked By Logs           40         N44.80051605         W89.71914946         2         W/M         Pole Rake         0         0         No Weeds           41         N44.79984089         W89.71915601         3         M         Pole Rake         0         0         No Weeds           42         N44.79916573         W89.71915601         3         M         Pole Rake         0         0         No Weeds           43         N44.79849057         W89.71818145         -         M         -         -         N/A Shallow Muck           45 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> -                                      </td>									- 
35 N44.79849522 W89.72105581 2 M Pole Rake 0 0 No Weeds 36 N44.79984322 W89.72010102 2 M Pole Rake 0 0 No Weeds 37 N44.79916806 W89.72010429 3 M Pole Rake 0 0 No Weeds 38 N44.7984929 W89.72010755 3 M Pole Rake 0 0 No Weeds 39 N44.80186637 W89.71914291 N/A Blocked By Logs 40 N44.80051605 W89.71914946 2 W/M Pole Rake 0 0 No Weeds 41 N44.79984089 W89.71915274 3 M Pole Rake 0 0 No Weeds 42 N44.79916573 W89.7191501 3 M Pole Rake 0 0 No Weeds 43 N44.79849057 W89.71915929 1 G Pole Rake 0 0 No Weeds 44 N44.80456467 W89.71818145 - M N/A Shallow Muck 45 N44.80118887 W89.71819788 N/A Blocked By Logs 46 N44.80051371 W89.71820117 3 W Pole Rake 0 0 No Weeds 47 N44.79983855 W89.71820445 3 M Pole Rake 0 0 No Weeds 48 N44.79916339 W89.71820445 3 M Pole Rake 0 0 No Weeds 48 N44.79916339 W89.71820774 3 M Pole Rake 0 0 No Weeds 49 N44.80388717 W89.71723638 - M N/A Shallow Muck 50 N44.80118653 W89.71724957 N/A Shallow Muck 50 N44.80118653 W89.71725287 3 M Pole Rake 0 0 No Weeds 51 N44.80051137 W89.71725287 3 M Pole Rake 0 0 No Weeds 52 N44.79983621 W89.71725617 3 M Pole Rake 0 0 No Weeds									
36 N44.79984322         W89.72010102         2         M         Pole Rake         0         0         No Weeds           37 N44.79916806         W89.72010429         3         M         Pole Rake         0         0         No Weeds           38 N44.7984929         W89.72010755         3         M         Pole Rake         0         0         No Weeds           39 N44.80186637         W89.71914291         -         -         -         -         N/A Blocked By Logs           40 N44.80051605         W89.71914946         2         W/M         Pole Rake         0         0         No Weeds           41 N44.79984089         W89.71915274         3         M         Pole Rake         0         0         No Weeds           42 N44.79916573         W89.71915601         3         M         Pole Rake         0         0         No Weeds           43 N44.79849057         W89.71818145         -         M         -         -         -         N/A Shallow Muck           45 N44.8018887         W89.71819788         -         -         -         -         N/A Blocked By Logs           46 N44.80051371         W89.71820445         3         M         Pole Rake         0         0									
37         N44.79916806         W89.72010429         3         M         Pole Rake         0         0         No Weeds           38         N44.7984929         W89.72010755         3         M         Pole Rake         0         0         No Weeds           39         N44.80186637         W89.71914291         -         -         -         -         N/A Blocked By Logs           40         N44.80051605         W89.71915274         3         M         Pole Rake         0         0         No Weeds           41         N44.79984089         W89.71915601         3         M         Pole Rake         0         0         No Weeds           42         N44.79916573         W89.71915929         1         G         Pole Rake         0         0         No Weeds           43         N44.79849057         W89.71818145         -         M         -         -         -         N/A Shallow Muck           45         N44.80118887         W89.71820117         3         W         Pole Rake         0         0         No Weeds           47         N44.79983855         W89.71820445         3         M         Pole Rake         0         0         No Weeds									
38         N44.7984929         W89.72010755         3         M         Pole Rake         0         0         No Weeds           39         N44.80186637         W89.71914291         -         -         -         -         N/A Blocked By Logs           40         N44.80051605         W89.71914946         2         W/M         Pole Rake         0         0         No Weeds           41         N44.7984089         W89.71915274         3         M         Pole Rake         0         0         No Weeds           42         N44.79916573         W89.71915929         1         G         Pole Rake         0         0         No Weeds           43         N44.79849057         W89.71818145         -         M         -         -         -         N/A Shallow Muck           44         N44.80456467         W89.71819788         -         -         -         -         N/A Blocked By Logs           46         N44.80051371         W89.71820117         3         W         Pole Rake         0         0         No Weeds           47         N44.79983855         W89.71820774         3         M         Pole Rake         0         0         No Weeds           49<				2					
39 N44.80186637       W89.71914291       -       -       -       N/A Blocked By Logs         40 N44.80051605       W89.71914946       2       W/M       Pole Rake       0       0       No Weeds         41 N44.79984089       W89.71915274       3       M       Pole Rake       0       0       No Weeds         42 N44.79916573       W89.71915601       3       M       Pole Rake       0       0       No Weeds         43 N44.79849057       W89.71915929       1       G       Pole Rake       0       0       No Weeds         44 N44.80456467       W89.71818145       -       M       -       -       N/A Shallow Muck         45 N44.80118887       W89.71820117       3       W       Pole Rake       0       0       No Weeds         47 N44.79983855       W89.71820445       3       M       Pole Rake       0       0       No Weeds         48 N44.79916339       W89.71820774       3       M       Pole Rake       0       0       No Weeds         49 N44.80388717       W89.71723638       -       M       -       -       N/A Shallow Muck         50 N44.80118653       W89.71724957       -       -       -       N/A Blocked By Log			W89.72010429	3	M	Pole Rake	0	0	No Weeds
40       N44.80051605       W89.71914946       2       W/M       Pole Rake       0       0       No Weeds         41       N44.79984089       W89.71915274       3       M       Pole Rake       0       0       No Weeds         42       N44.79916573       W89.71915601       3       M       Pole Rake       0       0       No Weeds         43       N44.79849057       W89.71915929       1       G       Pole Rake       0       0       No Weeds         44       N44.80456467       W89.71818145       -       M       -       -       N/A Shallow Muck         45       N44.80118887       W89.71820117       3       W       Pole Rake       0       0       No Weeds         47       N44.79983855       W89.71820445       3       M       Pole Rake       0       0       No Weeds         48       N44.79916339       W89.71820774       3       M       Pole Rake       0       0       No Weeds         49       N44.80388717       W89.71723638       -       -       -       -       N/A Shallow Muck         50       N44.80051137       W89.71725287       3       M       Pole Rake       0       0	38	N44.7984929	W89.72010755	3	M	Pole Rake	0	0	No Weeds
41       N44.79984089       W89.71915274       3       M       Pole Rake       0       0       No Weeds         42       N44.79916573       W89.71915601       3       M       Pole Rake       0       0       No Weeds         43       N44.79849057       W89.71915929       1       G       Pole Rake       0       0       No Weeds         44       N44.80456467       W89.71819788       -       -       -       N/A Shallow Muck         45       N44.80118887       W89.71820117       3       W       Pole Rake       0       0       No Weeds         47       N44.79983855       W89.71820445       3       M       Pole Rake       0       0       No Weeds         48       N44.79916339       W89.71820774       3       M       Pole Rake       0       0       No Weeds         49       N44.80388717       W89.71723638       -       M       -       -       -       N/A Shallow Muck         50       N44.80118653       W89.71724957       -       -       -       N/A Blocked By Logs         51       N44.80051137       W89.71725287       3       M       Pole Rake       0       0       No Weeds	39	N44.80186637	W89.71914291	-	-	-	-	-	N/A Blocked By Logs
41       N44.79984089       W89.71915274       3       M       Pole Rake       0       0       No Weeds         42       N44.79916573       W89.71915601       3       M       Pole Rake       0       0       No Weeds         43       N44.79849057       W89.71915929       1       G       Pole Rake       0       0       No Weeds         44       N44.80456467       W89.71819788       -       -       -       N/A Shallow Muck         45       N44.80118887       W89.71820117       3       W       Pole Rake       0       0       No Weeds         47       N44.79983855       W89.71820445       3       M       Pole Rake       0       0       No Weeds         48       N44.79916339       W89.71820774       3       M       Pole Rake       0       0       No Weeds         49       N44.80388717       W89.71723638       -       M       -       -       -       N/A Shallow Muck         50       N44.80118653       W89.71724957       -       -       -       N/A Blocked By Logs         51       N44.80051137       W89.71725287       3       M       Pole Rake       0       0       No Weeds	40	N44.80051605	W89.71914946	2	W/M	Pole Rake	0	0	No Weeds
42       N44.79916573       W89.71915601       3       M       Pole Rake       0       0       No Weeds         43       N44.79849057       W89.71915929       1       G       Pole Rake       0       0       No Weeds         44       N44.80456467       W89.71818145       -       M       -       -       N/A Shallow Muck         45       N44.80118887       W89.71819788       -       -       -       -       N/A Blocked By Logs         46       N44.80051371       W89.71820117       3       W       Pole Rake       0       0       No Weeds         47       N44.79983855       W89.71820445       3       M       Pole Rake       0       0       No Weeds         48       N44.79916339       W89.71820774       3       M       Pole Rake       0       0       No Weeds         49       N44.80388717       W89.71723638       -       M       -       -       N/A Shallow Muck         50       N44.80118653       W89.71724957       -       -       -       N/A Blocked By Logs         51       N44.80051137       W89.71725287       3       M       Pole Rake       0       0       No Weeds				3			0	0	
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52 N44.79983621 W89.71725617 3 M Pole Rake 0 0 No Weeds					<del> </del>	L			
								<u> </u>	
53 N44./9916105 W89.71/25947   3   M   Pole Rake   0   0  No Weeds								<del></del>	
				<del>                                     </del>		Pole Rake	<del></del>		
54 N44.80320966 W89.71629134 N/A Land								<del></del>	
55 N44.80118418 W89.71630127 2 M Pole Rake 0 0 No Weeds							<del></del>	<del></del>	
56 N44.80050902 W89.71630458 3 M Pole Rake 0 0 No Weeds	56	N44.80050902	JW89.71630458	3	M	Pole Rake	0	0	No Weeds

Project/Lake: Mosinee/Cemetery Slough - (102 Sample points)

Date: 7/20/2007 & 7/21/2007

WBIC: 1435700 County: Marathon

EWM = Eurasian Water Milfoil G = Gravel

CLP = Curly-leaf Pondweed NWM = Northern Water Milfoil

R = Root Mass (i.e. Lily Pads, Pickerel Weed, etc.)

N/A = Not Accessible

W = Woody Debris

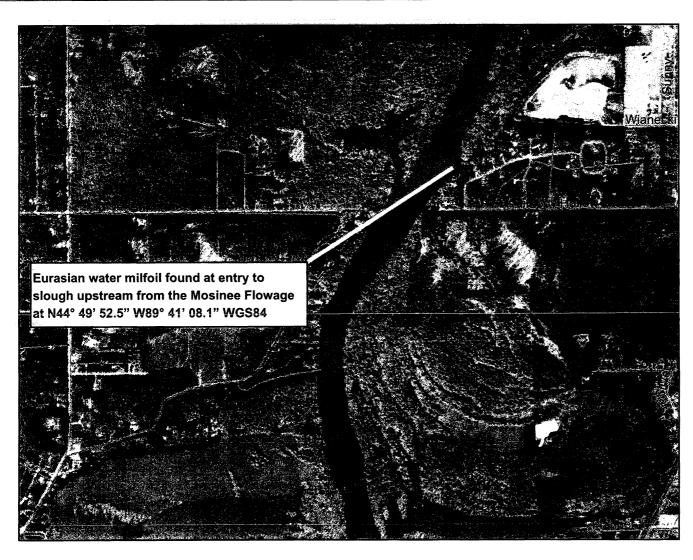
M = Muck

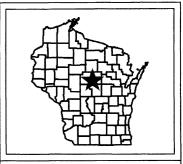
S = Sand

Crew: RAL/CTM

	RAL/CTM			Curly-leaf F				i.e. Lily Pads, Pickerel Weed, etc.)
Datum:	: WGS84		NWM =	Northern Wa	ater Milfoil	Rk = Ro	ck	· · · · · · · · · · · · · · · · · · ·
Point	Lattitude	Longitude	Depth	Sediment	Method	EWM	CLP	Comments
	N44.79983386		3	М	Pole Rake	0	0	No Weeds
		W89.71631119	3	M	Pole Rake	0	0	No Weeds
		W89.715343		M	1 OIC TURK	-	<u>-</u>	N/A Shallow Muck
			-		Pole Rake	0	0	No Weeds
	N44.80118182		4	M				
	N44.80050666		3	M	Pole Rake	0	0	No Weeds
		W89.7153596	3	M	Pole Rake	0	0	No Weeds
	N44.80252977		1	M	Pole Rake	1	0	-
64	N44.80185461	W89.71440132	2	M	Pole Rake	1	0	-
65	N44.80117945	W89.71440466	4	M	Pole Rake	0	0	No Weeds
	N44.80050429		3	М	Pole Rake	0	0	No Weeds
	N44.79982913		3	М	Pole Rake	0	0	No Weeds
	N44.80522803		<u> </u>	М	-	्रवेशे विकास संस्थित		N/A Shallow Muck
	N44.80455287		1	M	Pole Rake	0	0	No Weeds
			<del> </del>		Pole Nake			N/A Shallow Muck
		W89.71344632		M		-		IN/A Shallow Muck
	N44.80252739		1	M	Pole Rake	1	0	-
	N44.80185223		2	М	Pole Rake	0	0	No Weeds
	N44.80117707		4	M	Pole Rake	0	0	No Weeds
74	N44.80050191	W89.71345969	3	M	Pole Rake	0	0	No Weeds
		W89.71249463	1	М	Pole Rake	.0	0	-
	N44.80320017		1	М	Pole Rake	0	0	-
		W89.71250134	1	M	Pole Rake	1 1	0	_
		W89.71250469	4	M	Pole Rake	Ö	0	No Weeds
						0	0	No Weeds
	N44.80117469		4	M	Pole Rake			
	N44.80049953		4	M	Pole Rake	0	0	No Weeds
	N44.80387294		1	M	Pole Rake	1	0	
	N44.80252262		3	M	Pole Rake	.0	0	No Weeds
83	N44.80184746	W89.71155637	4	M	Pole Rake	,0	0	No Weeds
		W89.71155974	5	M	Pole Rake	0	0	No Weeds
	N44.80319538		3	М	Pole Rake	0	0	No Weeds
		W89.71060468	5	М	Pole Rake	0	0	No Weeds
		W89.71060806	5	M	Pole Rake	0	0	No Weeds
					F Ole Take		- U	N/A Shallow Muck
		W89.70963942	<del> </del>	M		<del>  -</del>	<del>                                     </del>	
		W89.70964281	-	M	-	<del>                                     </del>	-	N/A Shallow Muck
		W89.70965297	1	S	Pole Rake	0	0	140 170000
		W89.70965635	5	M	Pole Rake	0	0	No Weeds
92	N44.80184265	W89.70965974	6	M	Pole Rake	0	0	No Weeds
93	N44.80386572	W89.70870123	-	М	Sec.	-	-	N/A Shallow Muck
94	N44.8025154	W89.70870803	6	М	Pole Rake	0	0	No Weeds
		W89.70871142	6	М	Pole Rake	0	0	No Weeds
	N44:80251298		6	M	Pole Rake	0	0	No Weeds
	N44.80183782		5	M	Pole Rake	0	0	No Weeds
			1	S	1 h di	0	0	
		W89.70680795			Pole Rake			No Weeds
		W89.70681137	6	M	Pole Rake	0	0	No Weeds No Weeds No Weeds
		W89.70681479	4	S	Pole Rake	0	0	No vveeds
		W89.70586304	5	W	. Pole Rake	0	0	No Weeds
102	N44.80318082	W89.70491127	1	G	Pole Rake	.0	0	No Weeds
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# Mosinee Eurasian Water Milfoil Survey 2007 Upstream Location





### Legend

Major Highways

Interstate
US Highway

State Highway

**Local Roads** 

1750 3500 5250 ft.

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



Scale: 1:18,000

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APPENDIX C

Monitoring of Aquatic Macrophytes 2/13/06 (WIDNR)

1

Below we outline the protocol for statewide baseline sampling of aquatic macrophytes, with the primary goals of 1) comparing year-to-year data within a lake, and 2) comparing data among lakes. We describe a formal quantitative survey conducted at pre-determined sampling locations distributed evenly over the lake surface (point-intercept approach). We believe that this method, when combined with a boat survey to gather additional information on areas not sampled directly, will best characterize a lake's plant community. The chief benefit of adopting a statewide protocol is that variation in the sample set can be primarily attributed to actual differences in plant communities, instead of the confounding variables introduced by using different sampling techniques.

These guidelines are intended to work on most lakes. However, modifications may be required if a lake is uniquely shaped so that a uniform distribution of points isn't representative (long, skinny lake shape), or if obtaining rake samples is difficult due to substrate (rocky/cobble bottom).

Please note these are "baseline" recommendations. Additional monitoring activities may be warranted if the goal is to assess a specific management activity. For example, to gauge the success of chemical spot-treating stands of an exotic species in a relatively large lake, we recommend additional mapping of the beds within a season before and after treatment.

The baseline sampling described below should be conducted between early July and mid August. Although changes (such as biomass) in the plant community through this long sampling window might complicate data interpretation, in this survey we are mostly interested in species diversity and frequency, variables that should be fairly constant through the growing season. However, as described below, field workers are asked to assess rake fullness for all species and these ratings will likely vary with sample date. For many species, including Eurasian water-milfoil, plant biomass and density will probably increase as the season progresses. Narrow-leaved pondweeds begin to disappear by mid-August. Data for these species must be interpreted carefully with the sampling date in mind.

Curly-leaf pondweed (CLP) creates a special problem because it is often gone before the recommended sampling window between early July and mid-August. If you have any suspicion that CLP is present but not found when sampled, be sure to talk to APM staff to work out the best sampling scheme.

DNR personnel and groups using state money (e.g. planning, protection or aquatic invasive species grants) should follow this protocol.

#### I. Field Equipment

1. Required field equipment: boat, handheld GPS unit with WAAS (Wide Area Augmentation System) capability (with site locations already loaded, Garmin 76 is a commonly used model

within DNR), a lake map, waterproof field data sheets, pole-mounted rake, weighted rake on a rope, depth finder, storage bags for vouchered specimens, personal flotation device.

2. Recommended equipment (helpful, but not necessary): trolling motor, underwater video camera, plant ID references, hand lens, cooler for storing samples, digital camera to document shoreline features (e.g., deadfall, dock, house) for sample points near shore that will provide a visual complement to a dot on a map, waterproof paper tags and/or Sharpie for labeling bags with vouchers and unknown plant species.

#### **II. Point Intercept Sampling Method**

#### 1. Description

We require the following point-intercept sampling protocol. In this method, a large number of sampling sites are distributed in a grid across the lake. There are several benefits to a grid sampling design. An evenly spaced distribution of points results in a good overview of the entire lake. It is easy to replicate, and it is easy to preserve and present the spatial information. Please contact Jen Hauxwell (<a href="lennifer.Hauxwell@dnr.state.wi.us">lennifer.Hauxwell@dnr.state.wi.us</a>) with lake name, county, water body identification code (WBIC), and any other depth and plant information available so that she can establish sampling points for the lake.

The size of the littoral zone and shape of the lake determines the number of points and the grid resolution. You will receive an electronic file of sampling points to upload into a GPS unit (below). Once on the lake, you will go to each site and collect plants and data as described below.

#### 2. Uploading sampling points to the GPS unit

The following step-by-step instructions were adapted from the WIDNR Garmin GPS Tool User Manual v. 8.2.5, available to DNR employees on the intranet.

<file:///%5C%5Ccentral%5Cet\_apps%5CPROD%5CWiDNR\_Garmin%5Cstandalone\_garm in%5CDEV\_Doc%5CWIDNR\_Garmin\_Standalone\_GPS\_Tool\_User\_Guide.pdf>
This is a two step process. First you need to \*\_load\_\* the sample points you receive from Jen Hauxwell in a text file into the WIDNR Garmin GPS Tool, a computer file. Second you need to \*\_upload\_\* the points from your computer onto the GPS unit itself. For more information or troubleshooting help consult the User Manual.

Please note that GPS units vary in how many way points they can store. In the event that the number of sampling points exceeds your unit's storage capacity, simply split the text file containing the point information into multiple files. Upload successive files of points as needed. (For more information on Garmin GPS units, please see <a href="http://www.garmin.com/">http://www.garmin.com/</a> and navigate to consumer/outdoor/GPS mapping. Choose a unit and then click on "specifications" and, under navigation features, find the number of waypoints/icons.)

To upload points into your GPS unit from a text file (.txt) using the WIDNR Garmin GPS Tool you will need:

- PC/laptop with WIDNR Garmin GPS Tool software. If you do not have the software on your computer contact your administrator for installation.
- Waypoint .txt file in the same format as one created by the WI DNR Garmin GPS Tool. Text files received from DNR Research will be in the correct format.
- **PC Interface cable**. Comes standard with the GPS unit, or can be ordered at <a href="http://www.garmin.com/outdoor/products.html#mapping">http://www.garmin.com/outdoor/products.html#mapping</a>.
- GPS unit with external data port.

#### Step 1: SET "SIMULATING GPS" MODE

You must operate the Garmin GPS receiver in Simulating GPS mode while uploading/downloading data, so that the receiver is not trying to acquire satellite data during these activities. Check your GPS manual to determine how to do this. Instructions for the GPSMap 76 are given below.

- 1. Press and hold the [ON/OFF] button for two seconds to turn the GPS receiver on.
- 2. Several informational screens will display. Press the [PAGE] button until the first Acquiring Satellites screen appears.
- 3. Press the [MENU] button and select Start Simulator to see the Simulating GPS page.

#### **Step 2**: SET SERIAL DATA FORMAT

You must set the serial data format to GARMIN prior to transferring data. Failure to set the serial data format to GARMIN will cause a communication error between the WIDNR Garmin Tool and the GPS unit. Instructions for a GPSMap 76 are given below.

- 1. Press the [MENU] button twice, use the rocker key to select Setup, and then press [ENTER].
- 2. Use the rocker key to scroll left or right until the Interface tab is highlighted. Use the rocker key to scroll down to highlight the drop-down box and press [ENTER].
- 3. A menu will appear; select GARMIN and [ENTER]. Press [QUIT] twice to return to the main screen.

#### Step 3: PLUG IN THE PC INTERFACE CABLE

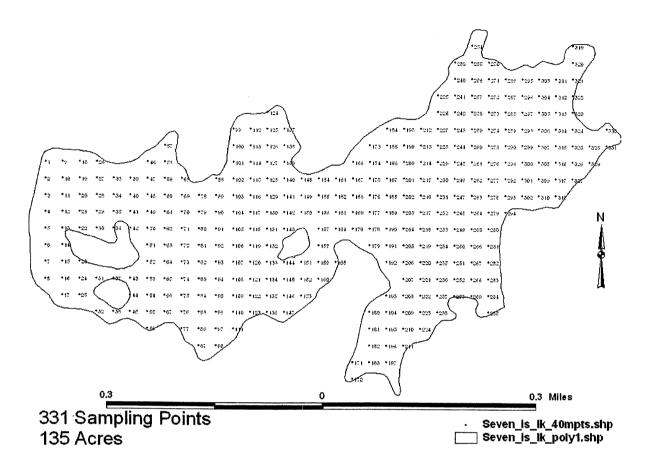
- 1. Plug the 9-pin serial connector into COM port #1 on your PC. If port #1 is in use, plug into the next available port, and note the port number. The WIDNR Garmin GPS Tool does not support connection through a USB port.
- 2. Plug the round end of the cable into the external data/auxiliary power port on the back of the GPS receiver. Check your GPS manual if you do not know where the data port is located. The GPS receiver should be on and in "simulating GPS" mode.

# <u>Step 4</u>: LOAD WAYPOINT DATA FROM A TEXT FILE TO THE WIDNR GARMIN GPS TOOL

- 1. Open the WIDNR Garmin GPS Tool file on computer. Select the WIDNR Garmin GPS Tool > File > Load > Waypoints From > GPS Text File option.
- 2. Enter/Select the path and name of the text file to load into the Open window. The GPS data will be loaded into the WIDNR Garmin GPS Tool. If you have trouble at this point, see the next section on troubleshooting. Otherwise, go on to section 4, Waypoints.
- 3. Troubleshooting. If you encounter problems during loading, a pop-up window will notify the user. Click OK.
  - a. If problems are encountered, check that the COM port is set correctly: GPS > Assign Port > select correct port #.
  - b. Also check that the baud rate matches that of the GPS unit: GPS > Assign Port > Baud Rate > select correct rate. A GPSMap 76 will transfer at 9600.
  - c. Check that the Serial Data Format is set to GARMIN (outlined in Step 2).
- 4. Waypoints. You can now view/edit waypoints by clicking the [Advanced] button on the WIDNR Garmin GPS Tool window.

#### Step 5: UPLOAD WAYPOINT DATA TO THE GPS RECEIVER

- 1. Select the WIDNR Garmin GPS Tool > Waypoint > Upload option.
- 2. When complete, the number of uploaded points appears at the bottom of the Garmin GPS Tool window. A pop-up window also indicates the number of waypoints successfully uploaded. Click OK. The uploaded waypoints should now be visible on the GPS receiver's Waypoints display.
- 3. Below is an example of lake with waypoints.



#### III. Collecting and Recording Plant Data

- 1. The rake sampler. The rake is constructed of two rake heads (double rake head) welded together, measuring 13.8 inches (35 centimeters) long with 14 teeth on each side. The handle is 8 ft (2.4 meters) in length, and should include a telescoping extension that results in a total handle length (from tip of rake head to fully extended end) of 15 feet (4.6 meters). You will also need a second, weighted, double rake head on a rope (rake-on-a-rope) to sample deeper sites. See section on "rake construction" for more detail.
- 2. Using the rake. Collect one rake sample per site. In waters less than 12 feet, handle the rake using the pole. In deeper water, toss the rake-on-a-rope. In either case, try to drag the rake along the bottom for 2.5 feet (0.75 meters). The rake may dislodge plants that will float to the surface, especially short rosette species not easily caught in the rake tines. Record these plants as present and estimate the rake fullness rating, just as you would plants brought up on the rake (see below).

#### 3. Point-intercept sampling issues and procedures.

- a. Under-sampling near shore. One problem with the grid system is that it may undersample very shallow sites where the vegetation is often quite different, even from sites just a bit deeper. To compensate for this problem, it is essential that you visit bays and shoreline areas missed by the grid. Record any species seen, especially emergent vegetation (rooted in water), and describe near-shore habitats on the Boat Survey sheet. These data will not be tallied in the ENTRY or STATS pages but should be recorded on an electronic version of the Boat Survey Sheet to accompany the other data.
- b. Navigational error. When navigating to sites using a handheld GPS unit, remember that there will be inherent error in locating points, sometimes as great as 60 feet. In addition to that error, there remains the question of "How close to the point is close enough?" You will almost never be able to sample a point at 0 feet from the point. Total error from the GPS error and navigational error *combined* should not exceed half of the sampling resolution. To avoid this when navigating using the map screen, navigate at no more than an 80-foot zoom level and completely cover the point with the arrow. At this level, the locational arrow on the screen is  $\sim$ 8 m long. This means that to sample with acceptable accuracy, the arrow must completely cover the point you are trying to hit, with the arrow centered over the point. At coarser zoom  $\sim$  120-foot and up, even if you are completely covering the point you still may be quite far from the point, just because the arrow is so large in comparison to the size of the points. You may need to navigate at a greater zoom resolution, but, as you approach the target point, switch to the 80-ft zoom resolution to assure you hit your point accurately.
- c. Hard-to-reach points. It may be hard to get to some sampling sites, especially in certain bays, where the water is very shallow and the substrate is mucky. When possible and practical, try to get to the point by poling with an oar, but do not spend undue time poling to these shallow sites. Due to safety concerns, field workers should not get out and drag the boat through mucky sediment to reach a site. If the sampling site is shallow but the substrate is firm, you should walk to the site from shore. If you cannot access a site, leave the depth blank and record NA (no access) or "land" (if the site is on land) in the comments column. (Remember to transfer these comments to the ENTRY sheet).
- **4. Filling out the Field Data sheet**. Print the FIELD DATA sheet from the Excel workbook APMstats123.xls for use in the field. We recommend printing the data sheet onto waterproof paper such as Xerox Never Tear Paper.
  - **a. Top portion.** Fill out the top portion of the Field sheet with lake name, WBIC, county, and date. Also, record all the observers and how many hours they worked on this lake.
  - **b. Site Number**. Each site location is defined by the lat/long data imported onto your GPS unit and each site should have one row of data.

- c. Depth. Measure and record the depth at each site sampled, regardless of whether vegetation is present. It is often easiest to mark the pole to establish depth for the shallower sites. However, a variety of options exist for taking depth measurements, including SONAR guns, depth finders that attach to the boat, or depth increments marked on the rope attached to the weighted rake sampler. If using a depth finder, please note that the accuracy decreases greatly in densely vegetated areas—depth will often be given to the top of the vegetation instead of to the lake bottom.
- **d. Dominant sediment type**: Record sediment type (based on how the rake feels when in contact with the bottom) at each site where plants are sampled as: mucky (M), sandy (S), or rocky (R).
  - e. Pole vs. rope. Record whether the field team held the rake by the pole (P) or rope (R).
- **f. Species information.** Note that the field data entry sheet does not include any species names, except for EWM (Eurasian water-milfoil) and CLP (curly-leaf pondweed). The sampling team must enter the species name the first time that species is encountered. Names will have to be entered again on successive field sheets (as they are encountered). The use of standard abbreviations can greatly shorten this process.

For all species, record the rake fullness rating (1- few, 2- moderate, 3-abundant, see illustration following this text) on the field data entry sheet at each sampling point where it is found. Record rake fullness for filamentous algae as well. Record the rake fullness rating for plants dislodged by, but not collected on the rake (please see "Under-sampling near shore", above). While at a site, look for any other plants (not already recorded) at that site within 6 ft (2m) of the boat. Record these species as a "visual" (V) on the data sheet. These species will be included in total number of species seen but will not be included in summary statistics. Account for plant parts that dangle or trail from the rake tines as if they were fully wrapped around the rake head.

- **5. Filling out the Boat Survey Data sheet**. Often there will be localized occurrences of certain species (e.g., floating-leaf or emergent species) that are obvious to the viewer but could possibly be missed by the point-intercept grid. As discussed above in "Under-sampling near shore", you should examine shoreline areas that are out of the grid. While you need not make a separate trip around the entire lake, do visit areas that may be under-sampled and record the information (including the closest sampling point) on the Boat Survey (see APMstats123.xls) and on a lake map. Be sure to create an electronic version of the Boat Survey from the field notes.
- 6. If no plants are found. If no plants are found at a sampling site while approaching a deep section in the lake, record the depth but do not record any species information. Sample one more (deeper) site beyond that point to ensure that you have correctly identified the maximum plant depth. This should be done for each set of points surrounding the deep portion of the lake. Along any N-S or E-W transect, sampling should continue for at least 2 points beyond the last site with plants. Some sites may not have any plants, even if the site is shallower than the maximum plant depth. For these sites, fill out the data sheet as usual (with no species identified). These sites will be included as sites as deep as, or shallower than, the maximum plant depth.

7. Collect voucher samples. Collect 2 samples of each species found on each lake. These samples must be pressed and dried according to the protocol in Appendix F. Send one prepared specimen to the local DNR office (who will pass them on to a University herbarium). Keep one specimen for the lake group as a reference for future plant identification. If the field team is unable to identify a plant, please try to get fresh plants to the local DNR lake management specialist as it is much easier to identify fresh plants than pressed plants. Be sure to let them know you are sending plants so that they can be processed promptly.

#### IV. Entering data on the spreadsheets and summary data

The APMstats123.xls Excel workbook has 5 spreadsheets:

- **a. READ ME**, with a summary of all the spreadsheets included in the worksheet. The date records the most recent version.
  - **b. Field Data**, discussed above.
- c. ENTRY, a data entry sheet for transferring field data to the computer spread sheet. You must transfer all of the information collected in the field to the ENTRY sheet. You should be able to copy the coordinates for the sampling points from the text file you uploaded onto the GPS unit and paste these into the entry sheet. There is a column for comments on the ENTRY sheet.
- **d. STATS**, an automated statistics page that provides a summary of the plant data. The summary statistics of the plant survey will automatically appear in the STATS sheet of APMstats123.xls after data are entered in ENTRY.
  - e. Boat Survey, discussed above.

#### V. Where to Send Data

Send electronic copies of the ENTRY, STATS and Boat Survey to Jen Hauxwell (Jennifer. Hauxwell@dnr.state.wi.us).

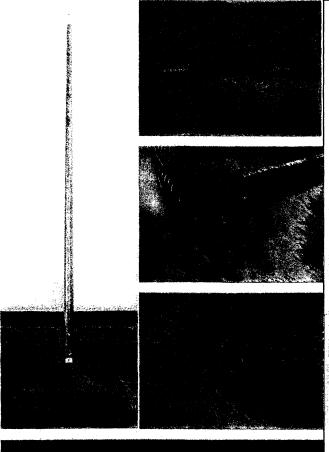
## Rake Fullness Ratings

Rake fullness ratings are given from 1-3 for each species. Conditions of the ratings are described below:

Rating	Coverage	<b>Description</b>
1		A few plants on rake head
2		Rake head is about ½ full Can easily see top of rake head
3		Overflowing Cannot see top of rake head

#### **Rake Construction**

Pictures of a rake are shown below, with potential vendors of the components indicated. (These are not endorsements of specific vendors.)



#### Pole Sampler

The rake sampler is made from two rake heads welded together, measuring 13.8 inches (35 centimeters) long with 14 teeth on each side. This example purchased from Menards with wooden poles attached and subsequently removed).

The handle is <u>8</u> ft (2.4 meters) in length, and should include a telescoping extension that results in a total handle length (from tip of rake head to fully extended end) of 15 feet (4.6 meters). This example was purchased from a pool supply company in Madison, WI (Bachmann Pool & Spas).



#### **Rope Sampler**

A similar rake head should be constructed for the rope sampler. At the point where the pole would be attached, tie on a rope or anchor line of at least 40 ft in length. If desired, attach a 5 lb weight to the top of the rake (away from the tines) or thread it on the rake rope. This example has a length of steel tubing welded to the rake head to serve as a handle through which is strung ~45 ft of climbing rope.

APPENDIX D

Reservoir Elevations During Survey Dates

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Mosinee Hydroelectric Project impoundment operating levels for the dates of the 2007 invasive species survey (7/16/07 – 7/24/07 and 8/9/07) as confirmed by operation personnel were normal at 1135.75 feet MSL  $\pm$  0.3 feet.