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# CCLRD

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## Camp and Center Lakes Rehabilitation District



Doug Hughes, Chairman  
Donna Wade, Secretary  
Charles Walker, Treasurer  
Dennis Faber, Commissioner, Town Of Salem  
Dean Hintzman, Commissioner

November 7, 2016

Mr. Craig Helker  
DNR Water Resources Biologist  
Sturtevant Service Center  
9531 Rayne Road, Suite 4  
Sturtevant, WI 53177

Dear Mr. Helker,

The following is the information required as a condition for the Camp, Center Lake Rehabilitation District's Aquatic Harvesting Permit approved on May 31, 2012. Of particular interest is the fact there was virtually no Eurasian Milfoil in our lakes in 2016. Camp had just 20 truck loads and Center had none (0). We are all excited about this and look forward to any information you can give us about what may have caused this phenomenon.

Also, as reported to you last year we now have a rapidly growing population of Zebra mussels in Camp Lake.

1. Starting and ending harvesting dates:

Starting date: June 13, 2016

Ending date: September 16, 2016

2. Map of harvesting areas:

See Exhibit I:

Maps of Camp and Center Lakes identifying the harvesting areas on each lake, also see Exhibit 18 and Exhibit 20 contained in the April 18<sup>th</sup> 2012 "Aquatic Plant Management Plan for Camp and Center Lakes" outlining the approximate 150 harvest acres that are part of the permit.

3. Harvester Load Summary

See Exhibit II:

4. Harvested Tonnage Summary

See Exhibit III:

Note:

Eurasian Milfoil, Widgeon Grass and "Other Species" were the species that were tabulated. The "Other Species" harvested were Common Water Weed, Coontail, Northern Water Milfoil, Sago Pondweed, Wild Celery, and a verity of other Pondweed species however; the quantity of those species was undeterminable because they were mixed in with all the species harvested.

2016 Summary:

There was a 95% decrease in the Eurasian Milfoil harvested in 2016 versus 2015 or only 20 loads versus 434 last year and 98% less or 1,218 loads less than our biggest Milfoil harvest year on record 2002, when we harvested 1,237.65 truck loads.

Widgeon Grass was also down 88% to just 51 loads versus 412 last year. Other Species represented 70% of this years harvest total but that was only 169 loads of the total 240. Of the total loads in 2016 or the 240 loads Milfoil represented only 8%, Widgeon Grass 21% and Other 70%.

The most loads harvested since we started tabulating in 2002 were in 2005 with 1,611 loads and for this year 2016, only 240 were harvested. This represents a decrease of 85% or 1,371 loads less than our biggest harvest year to date, 2005. This certainly is unusual and a circumstance the CCLRD board is excited about, and one we all hope will repeat itself for years to come.

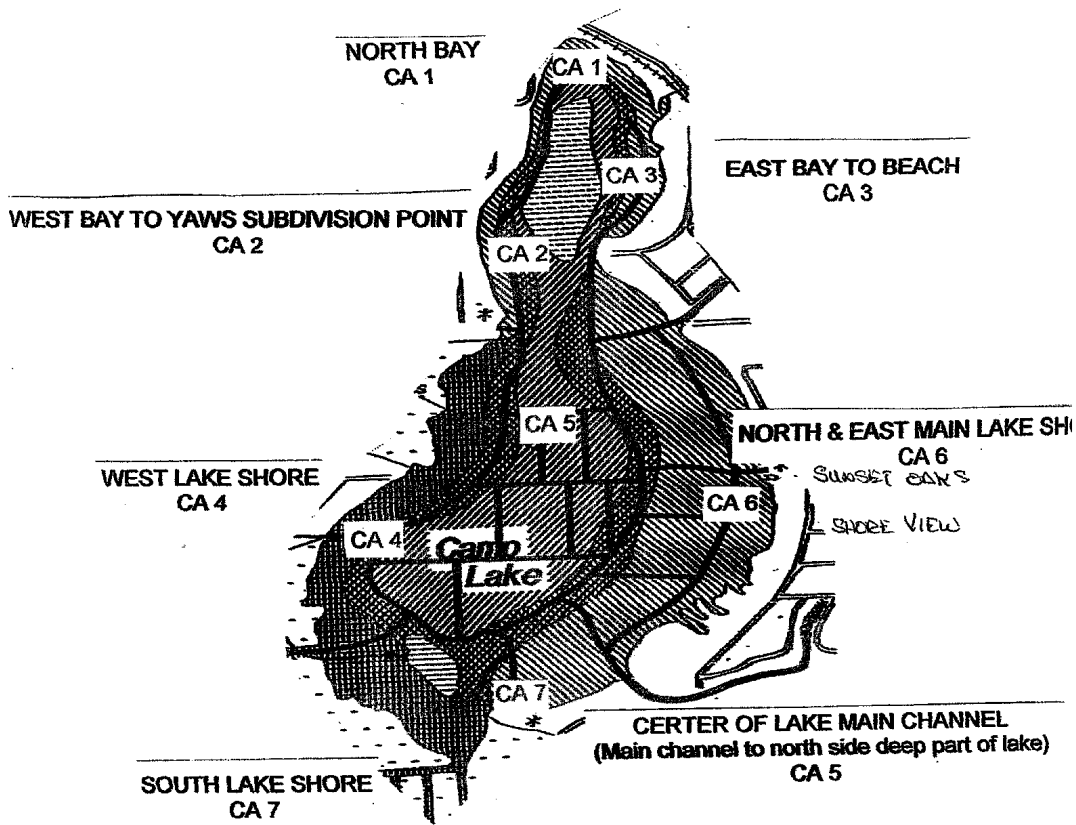
Best regards,

Dennis Faber

Harvesting Administrator

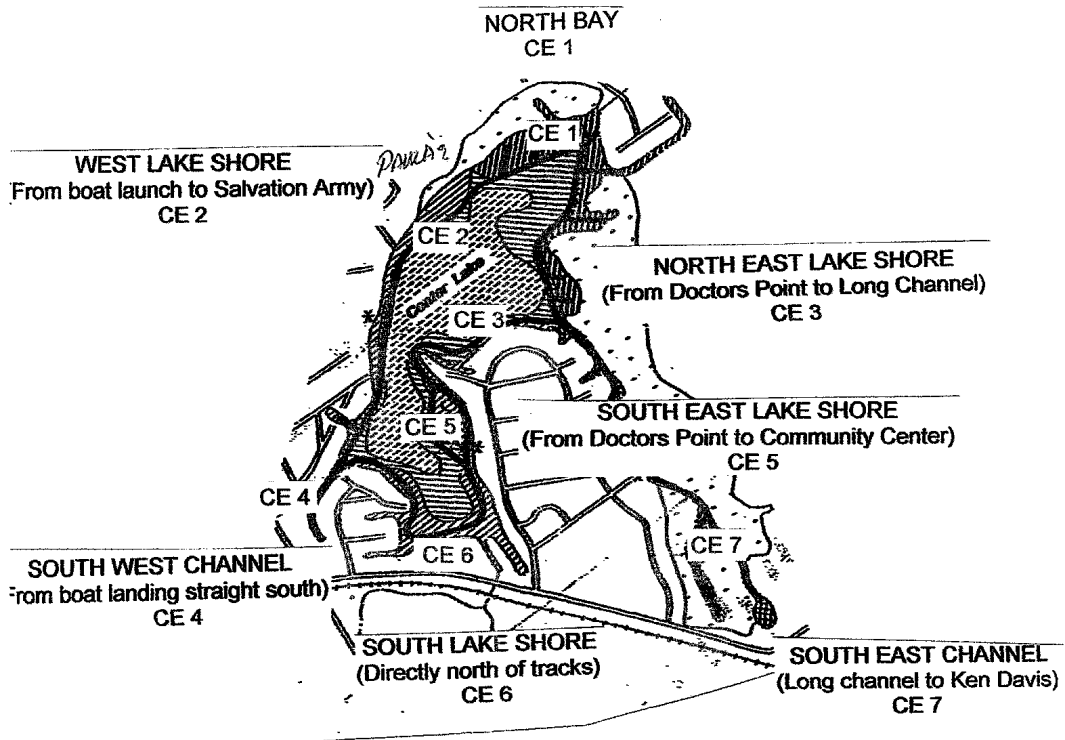
# CAMP LAKE HARVESTING LOCATION MAP

EXHIBIT I (Camp Lake)



# CENTER LAKE HARVESTING MAP

EXHIBIT I (Center Lake)



**EXHIBIT II**

**CAMP LAKE  
HARVESTER LOAD SUMMARY  
BY AQUATIC SPECIES**

Location:	CA 1	CA 2	CA 3	CA 4	CA 5	CA 6	CA 7	TOTAL
<b>MILFOIL:</b>								
Year: 2002	121.4	150.1	182.2	30.6	340.6	193.6	52.6	1,071.1
2003	105	169	133	33.4	349.6	95	42.6	927.6
2004	3	16.8	4	6.4	27.6	44	49.6	151.4
2005	72.6	33	15.4	55.4	503.2	64	13.6	756.4
2006	8	16	9.5	23.6	313.8	7.2	11.6	389.8
2007	16.4	0	2.8	4.4	615.6	10.4	2	651.6
2008	.6	1.6	2.4	7.2	289.4	4.2	22	327.5
2009	28.1	12	17.4	17.8	39.6	90.6	12.6	218.1
2010	4.1	12.4	12.1	34.5	19	57.7	42	181.8
2011	.2	1.2	.4	1.2	40.9	15	2	60.9
2012	0	12	0	.4	26	.6	0	39
2013	4.8	2.8	6.4	2	65	3.6	1.4	86
2014	0	0	2.7	2	273.5	0	.4	278.6
2015	4	.8	7.5	28.6	377.2	2.1	14	434.2
2016	0	.4	0	.2	11.0	8.2	.2	20.0
<b>WIDGEON GRASS:</b>								
Year 2002	18.6	42.8	33.8	5.4	41.4	47.4	11.4	200.8
2003	27.9	78	87.7	20.6	130.8	55	13.4	413.4
2004	3	4.8	0	1.6	4.4	12.6	30.6	57
2005	65	12	36.6	33.6	306.8	67.6	25.6	547.2
2006	66.5	5	41.5	8.4	229.6	17.2	10	378.2
2007	18	0	.8	.5	221.8	9.6	2	253.2
2008	5.4	.4	1.6	6.8	262.6	6.6	15	298.2
2009	36.4	20	30	42.8	281.6	78.8	15	504.6
2010	14.3	7.2	19.1	47.7	6.3	41.8	78.8	215.2

2011	.4	2.4	4	10.8	433.1	73.6	14.4	538.7
2012	3.2	15.2	30	59.8	254.8	43.5	17	423.5
2013	4	2.4	5.6	3.2	81.4	4.4	.8	101.8
2014	0	0	1.5	2	211.6	0	.2	215.3
2015	4.4	9.4	6.5	20.6	344.8	.4	6	392.1
2016	0	0	0	.2	44.5	7.2	0	51.9

**OTHER SPECIES:**

Year	2010	11.2	1.5	37.4	44.4	6.7	78.5	102.2	281.9
	2011	1.4	4.4	3.6	2	174	67.4	15.6	268.4
	2012	4.8	16	24	6.8	156	16.9	0	224.5
	2013	17.2	12.8	24	6.8	75.6	16	3.8	156.2
	2014	0	0	4.8	0	27.7	0	.4	32.9
	2015	3.6	1.8	1	6.8	7	5.5	.0	25.7
	2016	0	4	6	3.6	35.5	36.4	4.6	90.1

**CAMP LAKE TOTAL HARVESTER LOADS MILFOIL, WIDGEON GRASS & OTHER SPECIES:**

Location:	CA 1	CA 2	CA 3	CA 4	CA 5	CA 6	CA 7	TOTAL	
Year	2002	140	192.9	216	36	382	241	64	1,271.9
	2003	132.9	247	220.7	54	480.4	150	56	1,341
	2004	6	21.6	4	8	32	56.6	80.2	108.4
	2005	137.4	45	52	88	810	131.6	39	1,303
	2006	74.8	21	51	32	543.4	24.2	21.2	768
	2007	34.4	0	3.6	5.4	837.4	40	4	904.8
	2008	6	2	4	13.8	552	11	37	625.8
	2009	64.4	32	47.4	60.6	321.3	169.4	27.6	722.7
	2010	29.6	34.6	68.6	126.6	32	178	223	692.4
	2011	2	8	8	14	648	156	32	868
	2112	8	43.2	54	67	436.8	61	17	687
	2013	26	18	36	12	222	24	6	344
	2014	0	0	9	4	512.8	0	1	526.8

2015	12	12	15	56	729	8	20	852
2016	0	4.4	6	4	91	51.8	4.8	162

**CENTER LAKE  
HARVESTER LOAD SUMMARY  
BY AQUATIC SPECIES**

Location:	CE 1	CE 2	CE 3	CE 4	CE 5	CE 6	CE 7	TOTAL
<b>MILFOIL:</b>								
Year: 2002	47.5	22.6	11.75	3.6	18.9	47.8	14.4	166.55
2003	52.9	26	26.8	21.5	16.4	46.2	10.8	200.6
2004	61.6	16.6	18.2	29.8	8.4	109.4	79.8	323.8
2005	129.8	14	8.6	10.6	26.6	39	40	268.6
2006	46.8	26	3	1.5	9.8	5.8	5.6	98.5
2007	6.5	0	0	0	3	6.4	7	22.9
2008	60.6	.8	3.6	7.5	3	7	2.8	85.2
2009	11.2	0	0	0	1.6	15.2	4.6	32.6
2010	19.9	4.8	0	1.4	0	1.2	0	27.3
2011	5.2	0	.6	0	0	0	0	5.8
2012	33.2	0	0	0	0	0	0	33.2
2013	7.8	1.3	2.4	0	1.7	.7	1.3	15.2
2014	0	1.2	0	0	0	0	0	1.2
2015	.4	0	0	0	0	0	0	.4
2016	0	0	0	0	0	0	0	0
<b>WIDGEON GRASS:</b>								
Year: 2002	7	2.4	1.25	.4	2.1	8.2	1.6	22.45
2003	11.1	4	4.2	4.5	2.6	24.8	3.2	54.4
2004	14.4	9.4	3.8	6.2	1.6	44.6	26.2	106.2

2005	10.2	4	4.6	.4	5.4	14.10	0	38.8
2006	.2	0	0	.50	1.2	4.2	2.6	8.7
2007	7.5	0	0	0	0	10	5	22.5
2008	14.4	2.4	.4	.6	3	6	.4	27.2
2009	3	0	0	0	2.4	13.6	3.4	22.4
2010	2.9	.8	0	0	0	0	0	3.7
2011	.3	0	3.1	0	0	0	0	3.4
2012	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	.4	0	.4
2014	.5	.8	.6	0	.6	1.6	0	4.1
2015	1	0	0	0	.8	17.6	0	19.4
2016	0	0	0	0	0	0	0	0

**OTHER SPECIES:**

Year	2010	9.9	2.4	0	.6	0	.8	0	13.7
	2011	5.5	0	10.9	0	0	0	0	16.4
	2012	22.8	0	0	0	0	0	14	36.8
	2013	44.2	3.7	5.6	0	7.3	9.9	13.7	84.4
	2014	10.5	4	5.4	0	2.4	5	5	32.3
	2015	18.6	0	0	0	3.2	.4	12	34.2
	2016	52	0	0	0	0	14	13	79

**CENTER LAKE TOTAL HARVESTER LOADS MILFOIL, WIDGEON GRASS & OTHER SPECIES:**

Year:	2002	54	25	13	4	21	56	16	189
	2003	64	30	31	26	19	71	14	255
	2004	76	26	22	36	10	154	106	430
	2005	140	18	13.2	12	32	53.2	40	308.4
	2006	47	26	3	2	11	10	8.2	107.2
	2007	14	0	0	0	3	16.4	12	45.4
	2008	75	3	4	8	6	13	3.2	112.2
	2009	14.2	0	0	0	4	28.8	8	55
	2010	32.7	8	0	2	0	2	0	44.7



2011	11	0	14.6	0	0	0	0	25.6
2012	56	0	0	0	0	0	14	70
2013	52	5	8	0	9	11	15	100
2014	11	6	6	0	3	6.6	5	37.6
2015	20	0	0	0	4	18	12	54
2016	52	0	0	0	0	14	13	79

**TOTAL  
CAMP, CENTER LAKE  
HARVESTER LOAD SUMMARY  
BY AQUATIC SPECIES**

**MILFOIL:**

Year: 2002	1,237.65	
2003	1,128.2	- 9% less than 2002 or 54.7 less loads than 2002
2004	475.2	- 58% less than 2003 or 326.5 less loads than 2003
2005	1,025	+116% more than 2004 or 274.5 more loads than 2004
2006	488.2	- 52% less than 2005 or 268.4 less loads than 2005
2007	674.5	+ 38% more than 2006 or 93.2 more loads than 2006
2008	412.6	- 39% less than 2007 or 131 less loads than 2007
2009	250.8	- 39% less than 2008 or 80 less loads than 2008
2010	209	- 17% less than 2009 or 41.8 less loads than 2009
2011	66.7	- 69% less than 2010 or 142.3 less loads than 2010
2012	72.2	+ 8% more than 2011 or 5.5 more loads than 2011
2013	101.2	+ 40% more than 2012 or 29 more loads than 2012
2014	279.8	+176% more than 2013 or 178.6 more loads than 2013
2015	434.6	+ 55% more than 2014 or 154.8 more loads than 2014
2016	20	- 95% less than 2015 or 415 less loads than 2015

**WIDGEON GRASS:**

Year: 2002	223.25	
2003	467.8	+110% more than 2002 or 122 more loads than 2002
2004	163.2	- 65% less than 2003 or 152.3 less loads than 2003
2005	586	+258% more than 2004 or 211 more loads than 2004

2006	386.8	- 34% less than 2005 or 99.6 less loads than 2005
2007	275.7	- 29% less than 2006 or 55.6 less loads than 2006
2008	325.4	+ 18% more than 2007 or 24.9 more loads than 2007
2009	527	+ 62% more than 2008 or 100.8 more loads than 2008
2010	218.9	- 58% less than 2009 or 308.1 less loads than 2009
2011	542.1	+149% more than 2010 or 323.2 more loads than 2010
2012	423.5	- 22% less than 2011 or 118.6 less loads than 2011
2013	102.2	- 76% less than 2012 or 321.3 less loads than 2012
2014	219.4	+115% more than 2013 or 117.2 more loads than 2013
2015	411.5	+ 88% more than 2014 or 192.1 more loads than 2014
2016	51	- 88% less than 2015 or 361 less loads than 2015

**OTHER SPECIES:**

2010	295.	
2011	285	- 3% less than 2010 or 10 less loads than 2010
2012	261.3	- 8% less than 2011 or 23.7 less loads than 2011
2013	240.6	- 8% less than 2012 or 20.7 less loads than 2012
2014	65.2	- 73% less than 2013 or 175.4 less loads than 2013
2015	59.9	- 8% less than 2014 or 5.3 less loads than 2014
2016	169.1	+182% more than 2015 or 109 loads more than 2015

**TOTAL HARVESTER LOADS MILFOIL, WIDGEON GRASS & OTHER SPECIES:**

Year: 2002	1,460.9	
2003	1,596	+ 9% more than 2002 or 67.6 more loads than 2002
2004	638.4	- 60% less than 2003 or 479 less loads than 2003
2005	1,611	+152% more than 2004 or 485.6 more loads than 2004
2006	875.2	- 46% less than 2005 or 367.9 less loads than 2005
2007	950.2	+ 9% more than 2006 or 37.5 more loads than 2006
2008	738	- 22% less than 2007 or 106 less loads than 2007
2009	777.8	+ 5% more than 2008 or 19.9 more loads than 2008
2010	728.9	- 6% less than 2009 or 54.8 less loads than 2009

2011	893.5	+ 23% more than 2010 or 170.5 more loads than 2010
2012	757.0	- 15% less than 2011 or 136.5 less loads than 2011
2013	444	- 41% less than 2012 or 313 less loads than 2012
2014	564.4	+ 27% more than 2013 or 120.4 more loads than 2013
2015	906	+ 61% more than 2014 or 341.6 more loads than 2014
2016	240	- 74% less than 2015 or 666 less loads than 2015

**EXHIBIT III**

**TOTAL  
CAMP, CENTER LAKE  
TONNAGE SUMMARY:**

**TOTAL TONNAGE MILFOIL, WIDGEON GRASS & OTHER SPECIES:**

Year: 2002	2,921.8	
2003	3,192	+ 9% or 270.2 tons more than 2002
2004	1,276.8	- 60% or 1,915.2 tons less than 2003
2005	3,219.3	+ 152% or 1,942.5 tons more than 2004
2006	1,750.4	- 46% or 1,468.9 tons less than 2005
2007	1,900.4	+ 9% or 150 tons more than 2006
2008	1,476.2	- 22% or 424.2 tons less than 2007
2009	1,555.6	+ 5% or 79.4 tons more than 2008
2010	1,446.8	- 7% or 108.8 tons less than 2009
2011	1,787	+ 24% or 340 tons more than 2010
2012	1,514	- 15% or 273 tons less than 2011
2013	888	- 41% or 626 tons less than 2012
2014	1,128.8	+ 27% or 240.8 tons more than 2013
2015	1,812	+ 61% or 683.2 tons more than 2014
2016	480	- 74% or 1,332 tons less than 2015