

Lamoka Lake
Rake Toss Data

TOTAL SPECIES (2 TOSSES)

2000 – 20	(18 Native Plants)	2012 – 25	(23 Native Plants)
2006 – 28	(26 Native Plants)	2013 – 31	(28 Native Plants)
2008 – 30	(28 Native Plants)	2014 – 27	(24 Native Plants)
2009 – 27	(26 Native Plants)	2015 – 29	(26 Native Plants)
2010 – 29	(27 Native Plants)	2016 – 26	(23 Native Plants)
2011 – 34	(31 Native Plants)		

TOTAL OCCURRENCE ALL SPECIES (2 TOSSES -169 SP'S)

2000 – 602	(130 Milfoil)	2012 – 754	(41 Milfoil)
2006 – 1110	(153 Milfoil)	2013 – 733	(46 Milfoil)
2008 – 1014	(67 Milfoil)	2014 – 841	(63 Milfoil)
2009 – 1163	(0 Milfoil)	2015 – 1053	(80 Milfoil)
2010 – 700	(3 Milfoil)	2016 – 1120	(63 Milfoil)
2011 – 785	(57 Milfoil)		

TOTAL NSAV OCCURRENCE (2 TOSSES)

2000 – 471	(2.79 Species/Sampling Point)	2012 – 637	(3.82 Species/Sampling Point)
2006 – 939	(5.56 Species/Sampling Point)	2013 – 614	(3.63 Species/Sampling Point)
2008 – 905	(5.36 Species/Sampling Point)	2014 – 654	(3.87 Species/Sampling Point)
2009 – 1077	(6.38 Species/Sampling Point)	2015 – 865	(5.12 Species/Sampling Point)
2010 – 619	(3.66 Species/Sampling Point)	2016 – 936	(5.54 Species/Sampling Point)
2011 – 681	(4.01 Species/Sampling Point)		

PLANT DENSITIES (2 RAKE TOSSES)

<u>Trace</u>	<u>Sparse</u>	<u>Moderate</u>	<u>Dense</u>	<u>Zero</u>	<u>Total</u>
(Small Hand Full or Less)	(2 Hands Full)	(Arm Full)	(Greater than Arm Full)		

2000	NOT AVAILABLE					
2006	9 (2.27%)	72 (21.3%)	136 (40.2%)	109 (32.2%)	12 (3.6%)	338 (100%)
2008	38 (11.2%)	42 (12.4%)	128 (37.9%)	103 (30.5%)	27 (8.0%)	338 (100%)
2009	74 (21.9%)	132 (39.1%)	91 (26.9%)	27 (8.0%)	14 (4.1%)	338 (100%)
2010	85 (25.1%)	58 (17.2%)	114 (33.7%)	51 (15.7%)	30 (8.9%)	338 (100%)
2011	78 (23.1%)	75 (22.2%)	97 (28.7%)	78 (23.1%)	10 (3.0%)	338 (100%)
2012	89 (26.4%)	77 (22.8%)	113 (33.4%)	41 (12.1%)	18 (5.3%)	338 (100%)
2013	68 (20.1%)	72 (21.3%)	117 (34.6%)	70 (20.7%)	11 (3.3%)	338 (100%)
2014	112 (33.1%)	108 (32.0%)	79 (23.4%)	26 (7.7%)	13 (3.8%)	338 (100%)
2015	75 (22.2%)	67 (19.8%)	95 (28.1%)	97 (28.7%)	4 (1.2%)	338 (100%)
2016	78 (23.1%)	72 (21.3%)	80 (23.7%)	106 (31.4%)	2 (0.5%)	338 (100%)

Major Plants	2010	2011	2012	2013	2014	2015	2016
Coontail	20.9%	23.7%	23.1%	23.5%	18.9%	19.3%	16.9%
Robins Pondweed	10.3%	6.5%	5.4%	5.4%	5.4%	5.8%	4.8%
Elodea	8.9%	7.7%	6.3%	6.4%	5.9%	10.8%	10.8%
Curlyleaf Pondweed	11.1%	4.4%	7.6%	13.7%	13.8%	10.9%	10.2%
Southern Naiad	10.9%	13.0%	12.8%	10.6%	11.3%	14.1%	10.6%
Water Celery	7.9%	7.1%	7.2%	8.1%	9.0%	8.9%	8.0%
Eurasian Watermilfoil					7.2%	7.9%	6.0%

2016 Lamoka Lake Milfoil Locations



MONITORING FREQUENCY (DAYS AFTER TREATMENT)

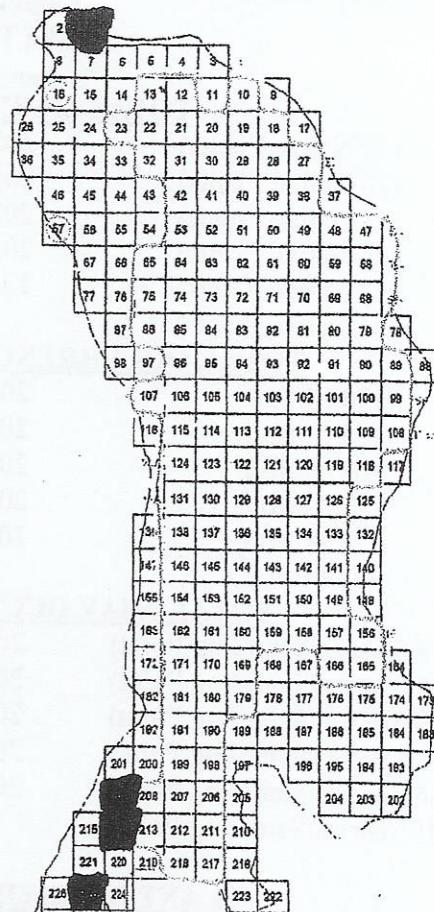
1
15
29
50
71
92*

*MONITORING ONCE EVERY THREE WEEKS
UNTIL RENOVATE CONCENTRATIONS DO
NOT EXCEED 1ppb. OR 120 DAYS AFTER
TREATMENT.

MONITORING POINT	X COORD.	Y COORD.	DEPTH (ft.)
18	328400	4887800	2.6
67	328400	4887400	3.3

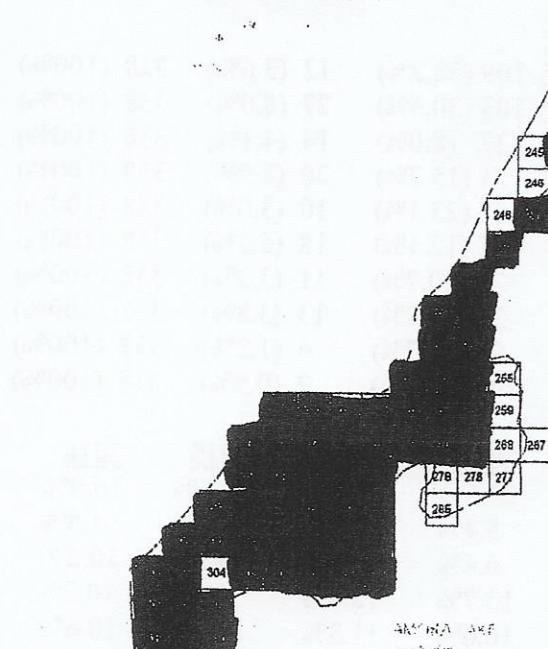
0.6 miles downstream of Bradford Dam
@ Rabbit Road Bridge

<1.0



PROPOSED 2013 RENOVATE MONITORING LAMOKA LAKE

LITTORAL ZONE BOUNDARY LINE



0.6 miles
Bridge @
Rabbit Road

SP	density	to Milfoil
1	M/M	4, 2
209	S/S	0.01, 2
214	S	1
225	S	2
230	T	20
244	M/S	0.01, 10
247	D	0.01
249	S	0.01
250	S/S	5, 10
251	T	2
252	D/D	2, 10
253	M/M	15, 10
254	M/M	1, 10

channel

**Waneta Lake
Rake Toss Data**

<u>TOTAL SPECIES (2 TOSSES)</u>		
2000 – 16	(15 Native Plants)	2010 – 15
2003 – 7	(5 Native Plants)	2011 – 13
2004 – 10	(9 Native Plants)	2012 – 11
2005 – 12	(10 Native Plants)	2013 – 17
2006 – 14	(15 Native Plants)	2014 – 16
2008 – 18	(15 Native Plants)	2015 – 17
2009 -19	(17 Native Plants)	2016 – 17
<u>TOTAL OCCURRENCE ALL SPECIES (2 TOSSES -102 SP'S)</u>		
2000 – 220	(80 Milfoil)	2010 – 389
2003 – 83	(1 Milfoil)	2011 – 325
2004 – 81	(0 Milfoil)	2012 – 332
2005 – 106	(5 Milfoil)	2013 – 409
2006 – 167	(50 Milfoil)	2014 – 459
2008 – 421	(5 Milfoil)	2015 – 388
2009 – 408	(0 Milfoil)	2016 – 487
<u>TOTAL NSAV OCCURRENCE (2 TOSSES)</u>		
2000 – 140	(1.37 Species/Sampling Point)	2010 – 347
2003 – 81	(0.79 Species/Sampling Point)	2011 – 312
2004 – 61	(0.60 Species/Sampling Point)	2012 – 301
2005 – 61	(0.60 Species/Sampling Point)	2013 – 351
2006 – 93	(0.91 Species/Sampling Point)	2014 – 371
2008 – 356	(3.49 Species/Sampling Point)	2015 – 335
2009 – 364	(3.57 Species/Sampling Point)	2016 – 395

<u>Trace</u>	<u>PLANT DENSITIES (2 RAKE TOSSES)</u>					
	<u>Sparse</u> (Small Hand Full or Less)	<u>Moderate</u> (2 Hands Full)	<u>Dense</u> (Arm Full)	<u>Zero</u> (Greater than Arm Full)	<u>Total</u>	
2006 59 (24.6%)	48 (20.0%)	18 (7.5%)	2 (0.8%)	113 (47.1%)	240 (100%)	
2008 53 (19.2%)	91 (33.0%)	74 (26.8%)	37 (13.4%)	21 (7.6%)	276 (100%)	
2009 15 (5.4%)	51 (18.5%)	92 (33.3%)	108 (39.2%)	10 (3.6%)	276 (100%)	
2010 14 (5.1%)	15 (5.4%)	77 (27.9%)	169 (61.2%)	1 (0.4%)	276 (100%)	
2011 24 (8.7%)	31 (11.2%)	88 (31.9%)	133 (48.2%)	0 (0%)	276 (100%)	
2012 49 (17.7%)	33 (12.0%)	101 (36.6%)	91 (33.0%)	2 (0.7%)	276 (100%)	
2013 33 (12.0%)	55 (19.9%)	95 (34.4%)	92 (33.3%)	1 (0.4%)	276 (100%)	
2014 64 (23.2%)	83 (30.1%)	65 (23.5%)	55 (19.9%)	9 (3.3%)	276 (100%)	
2015 158 (57.2%)	54 (19.6%)	47 (17.0%)	6 (2.2%)	11 (4.0%)	276 (100%)	
2016 61 (22.1%)	80 (29.0%)	111 (40.2%)	18 (6.5%)	6 (2.2%)	276 (100%)	

<u>Major Plants</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Southern Naiad	25.1%	26.2%	36.6%	34.8%	29.1%	22.9%	27.2%	26.8%
Elodea	23.8%	24.7%	22.4%	22.1%	21.2%	15.4%	9.3%	6.5%
Coontail	17.4%	22.1%	29.47%	30.3%	27.7%	22.7%	25.9%	20.5%
Curlyleaf Pondweed	10.3%	10.8%	2.2%	4.2%	9.9%	11.9%	10.9%	16.8%
Water Celery	6.9%	8.2%	5.7%	3.0%	6.5%	7.0%	10.3%	9.6%

2016 Waneta Lake
Milfoil Locations

<u>SP</u>	<u>Density</u>	<u>% Milfoil</u>
2	S	0.01
6	SM	0.01, 5
17	S	10
45A	M	0.01
77A	M	0.01
250	S	5
263	T	10
314	S	3

