Big Sand Lake Submergent Vegetation 2009

Surveyors: Don and Ivy Douglas

Date: July 8 thru July 31, 2009 - 37 hours

Methods and Material:

Northwood 19 foot pontoon, Garmin GPS Map 76, rake and rope collection, point-intercept grid.

Field observations:

Common sago pondweed

Additional survey samples were obtained in situations where grid point intersection was devoid of vegetation. Rich vegetation beds within 20 yards were sampled and included in a separate vegetation sheet.

There were 995 points mapped for sampling, but only locations 37 feet deep or less had vegetation. Points deeper than 37 feet were not included in the summary below.

The five most common plants were: muskgrass (at 51% of sites), largeleaf pondweed (4% of sites),

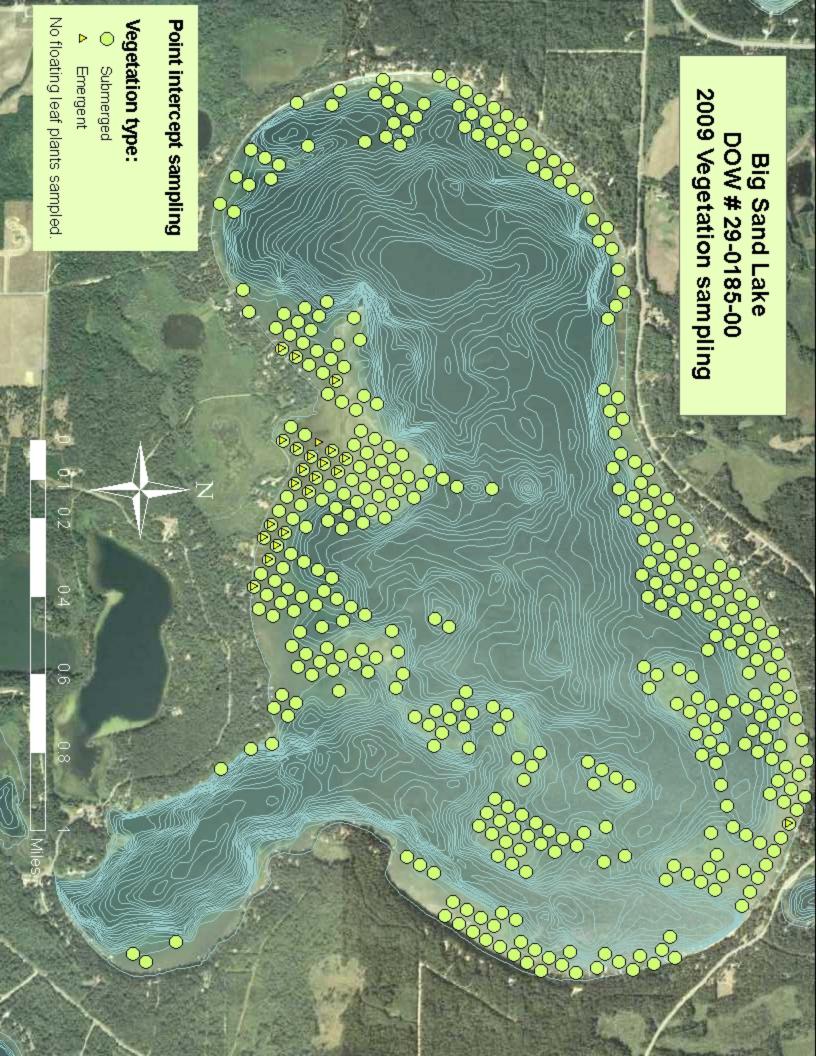
Illinois pondweed (4% of sites), bulrush (3% of sites), and narrowleaf pondweed (3% of sites). Fifty-two percent of the sites sampled at 37 feet or less had vegetation present.

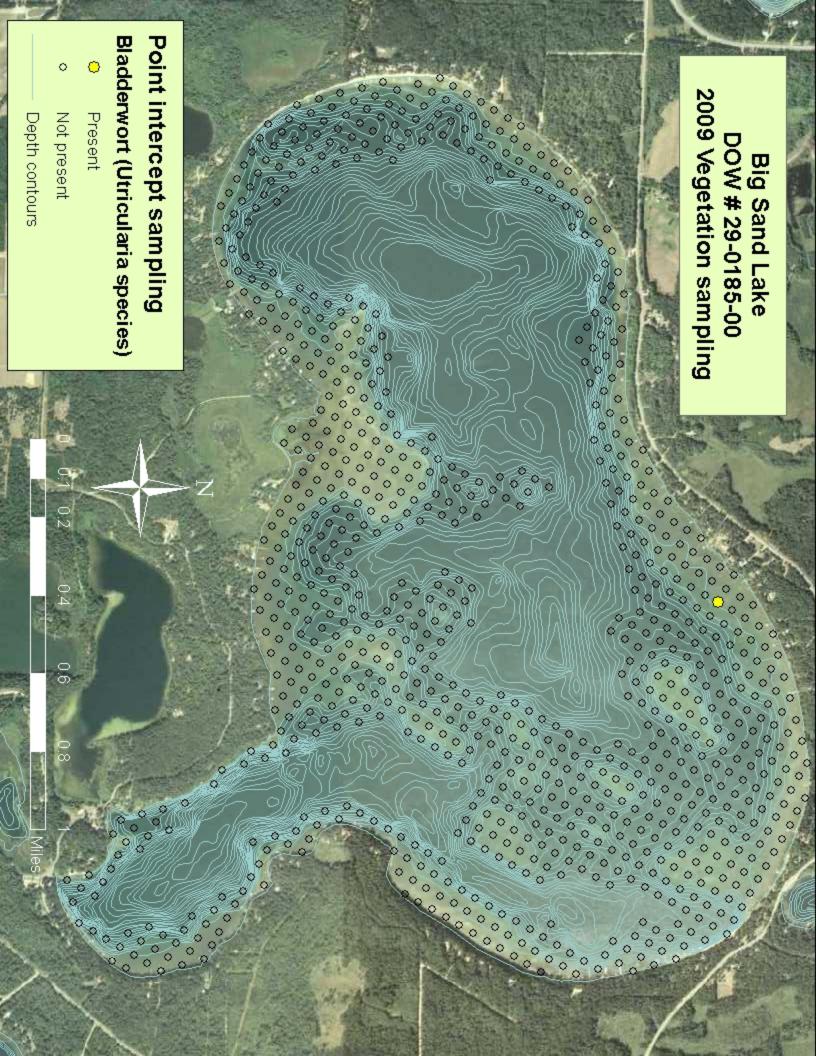
Submerged aquatic plants noted that were not on the grid intercept points:
Canadian waterweed
Water stargrass,
Submersed brown-fruited rush
Northern watermilfoil
Leafy pondweed
Fries' pondweed
White water-crowfoot

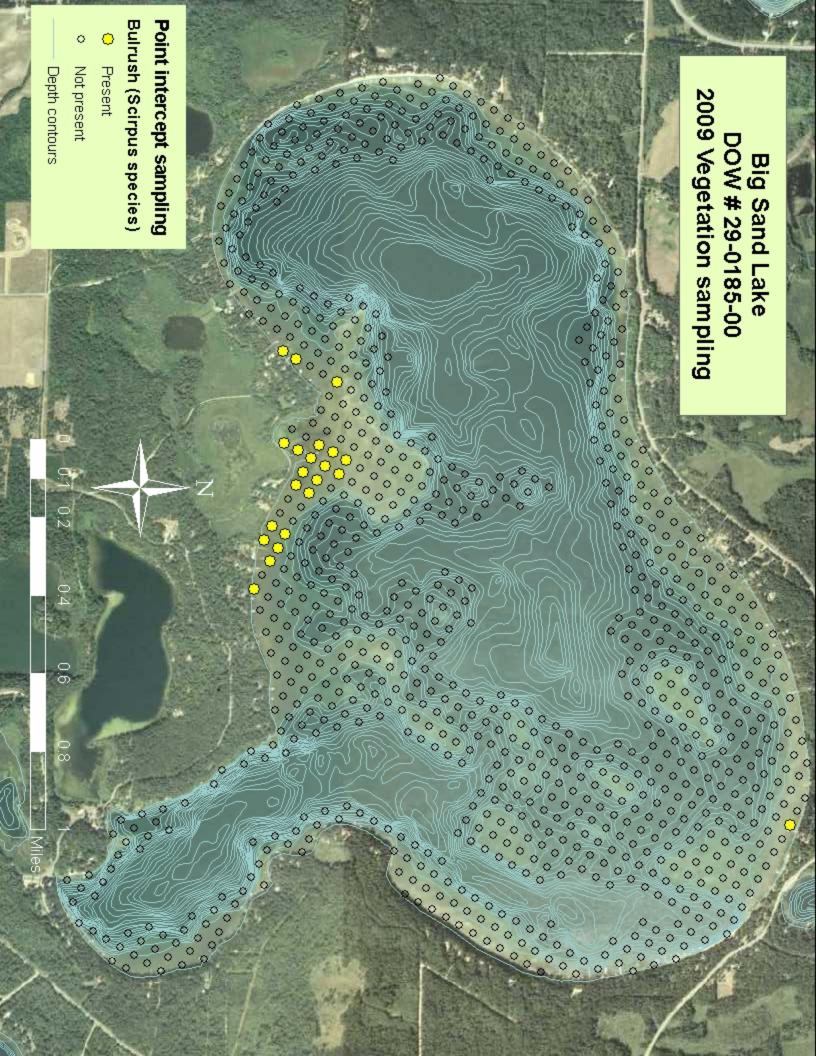
Vegetation species or type:	Number of locations found	Percent of all locations sampled (777 sites)	Percent of locations with vegetation (404 sites)
Chara, muskgrass	397	51.1	98.3
Largeleaf pondweed	30	3.9	7.4
Illinois Pondweed	27	3.5	6.7
Bulrush	22	2.8	5.4
Narrowleaf Pondweed	21	2.7	5.2
Coontail	13	1.7	3.2
Whitestem Pondweed	9	1.2	2.2
White water buttercup	9	1.2	2.2
northern water milfoil	5	0.6	1.2
Bushy pondweed	4	0.5	1.0
Can.waterweed, Elodea	3	0.4	0.7
Wild Celery	3	0.4	0.7
Leafy Pondweed	2	0.3	0.5
Bladderwort	1	0.1	0.2
Flatstem Pondweed	1	0.1	0.2
Sheathed Pondweed	1	0.1	0.2

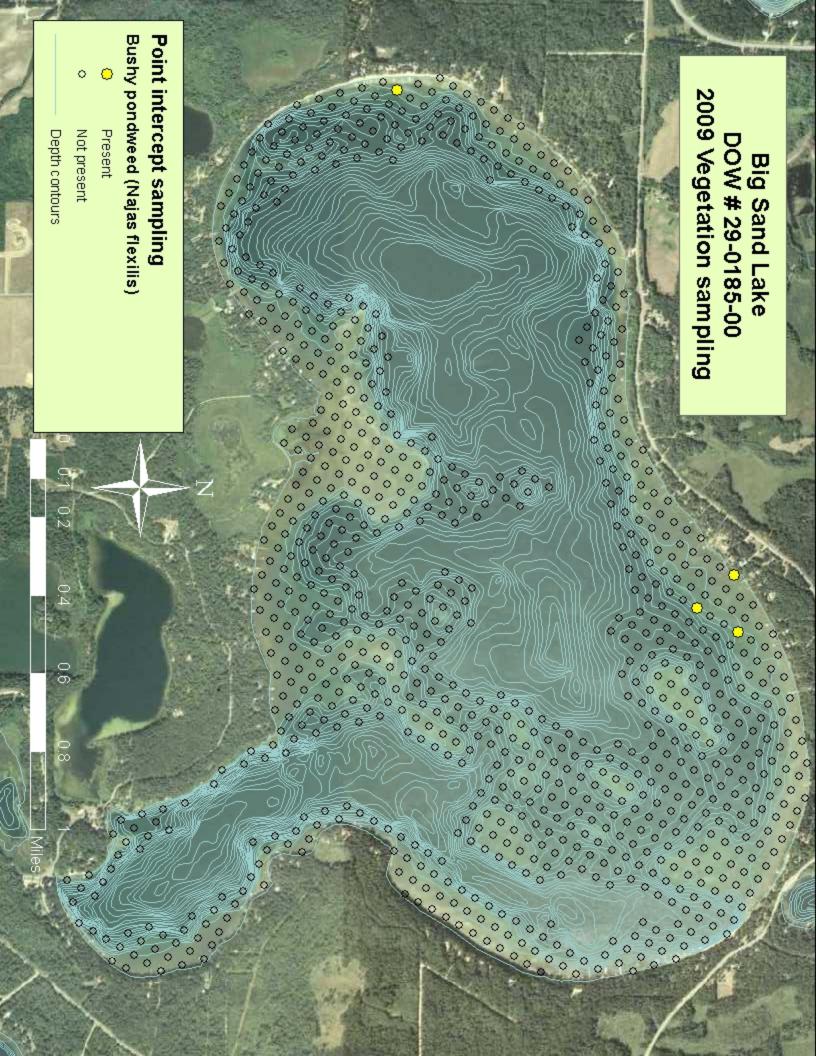
SUMMARY:	Number of locations present	Percent of all locations sampled (777 sites)	Percent of locations with vegetation (404 sites)	
Number of sites with emergent vegetation	22	2.8	5.4	
Number of sites with floating leaf vegetation	0	0.0	0.0	
Number of sites with submerged vegetation	403	51.9	99.8	
Total number of locations with vegetation	404	52.0	100.0	
Number of locations that did NOT have any				
vegetation	373	48.0	92.3	
Number of locations sampled*	777	100.0	192.3	
*All sites 37 feet deep or less. No vegetation was found at locations deeper than 37 ft.				

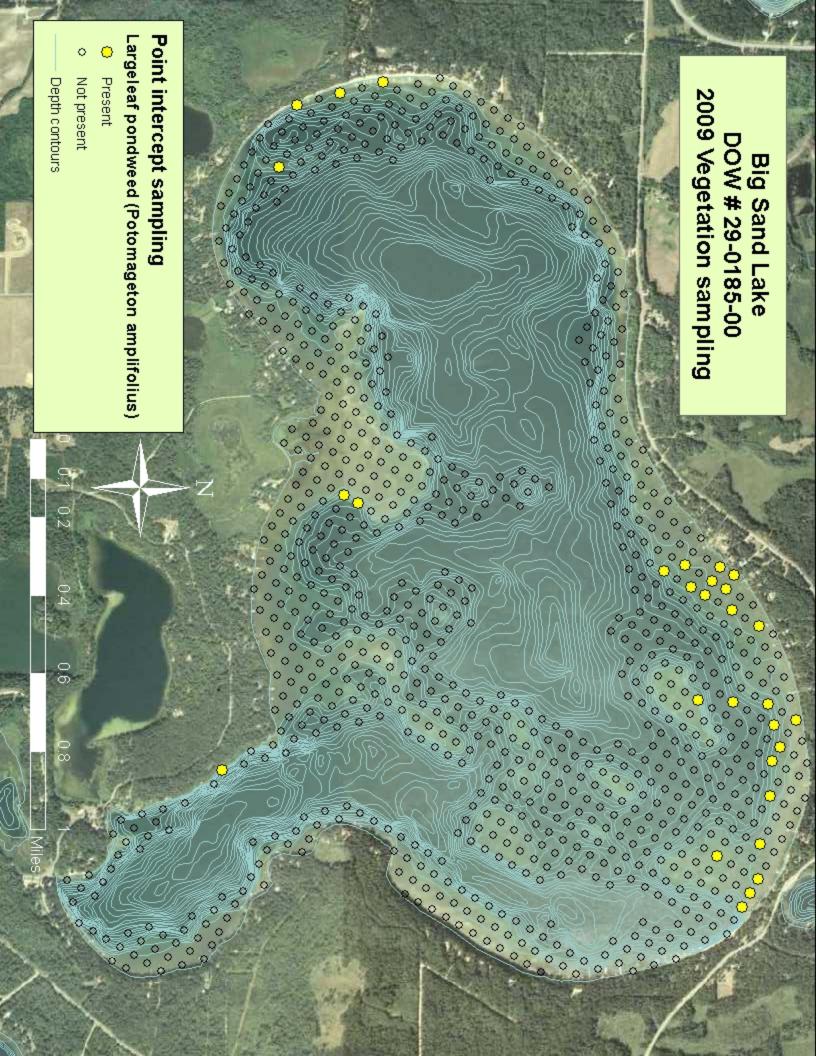
NOTE: Total number of locations sampled (includes locations deeper than 37 ft). 995

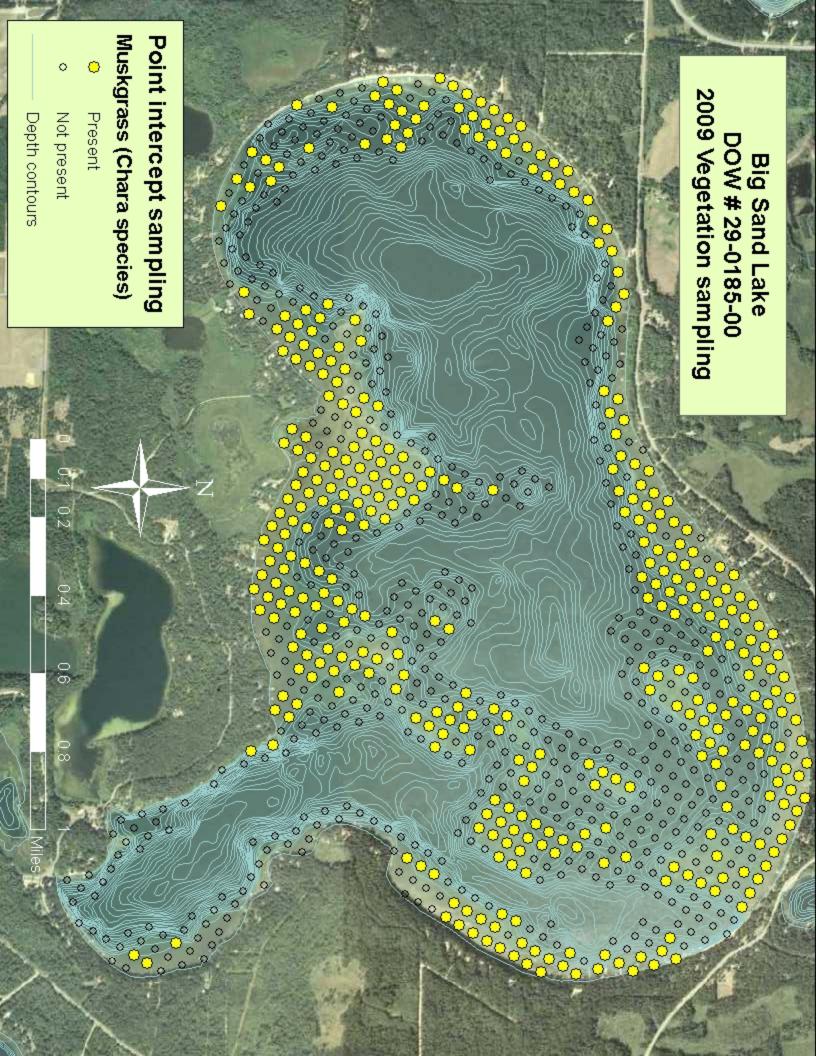


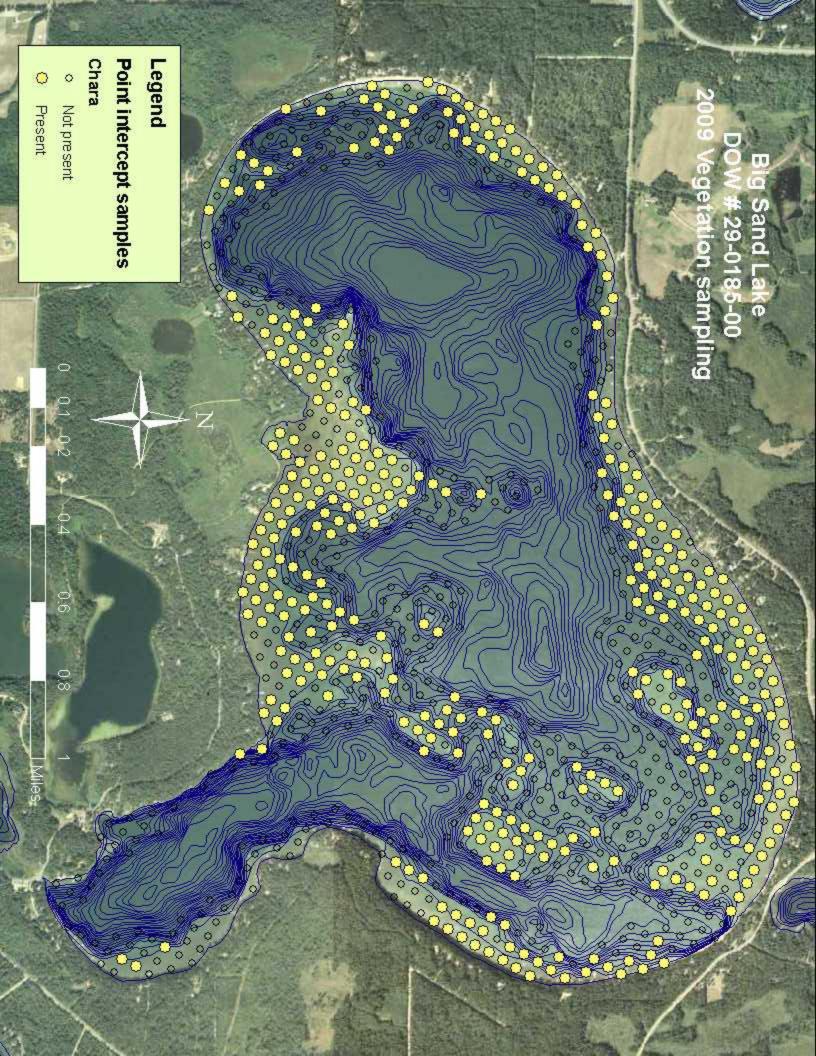


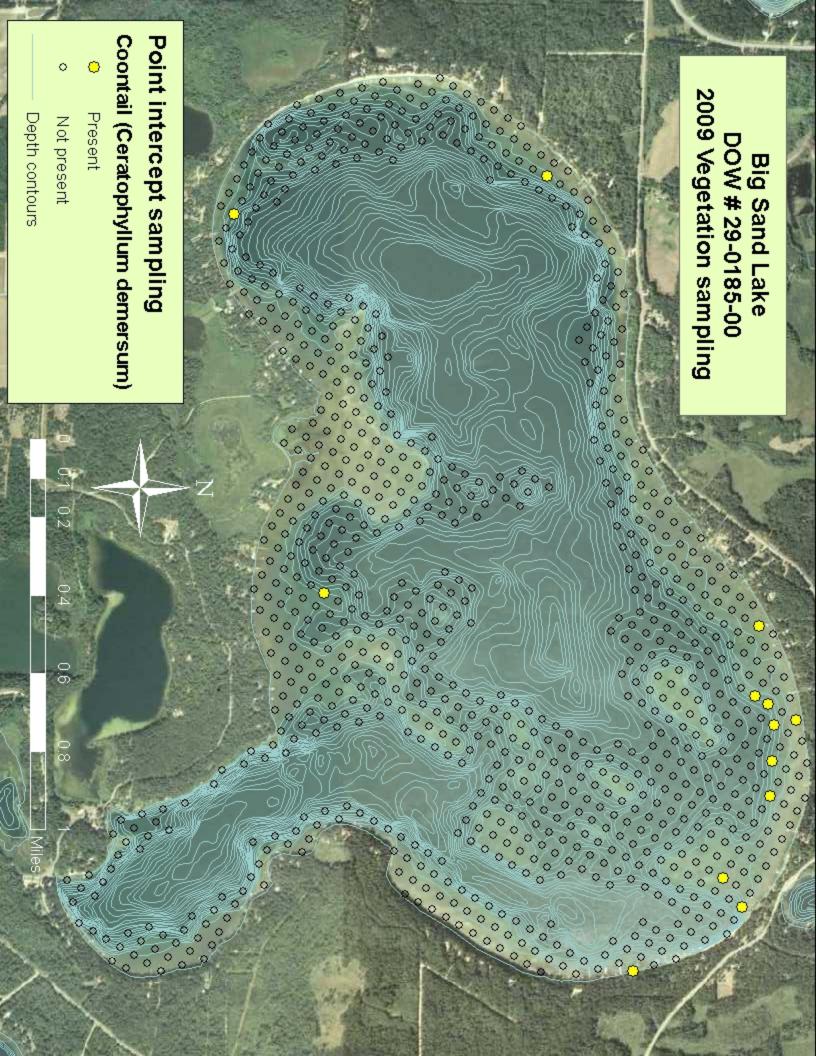


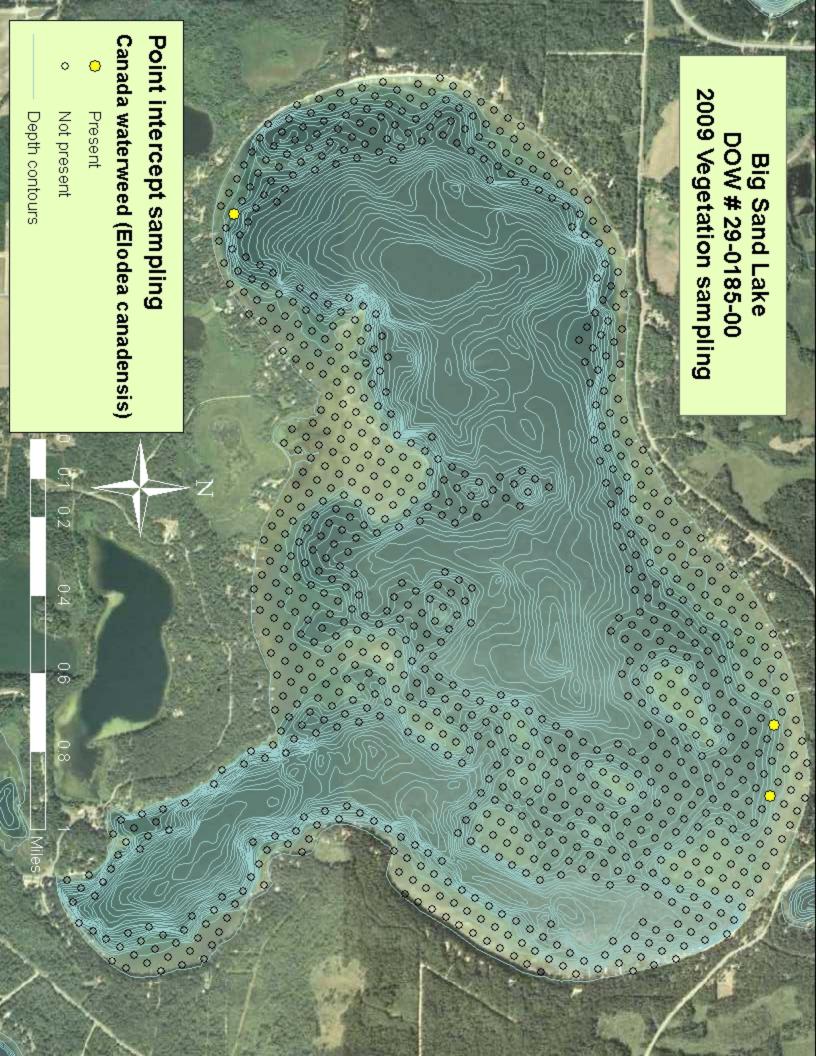


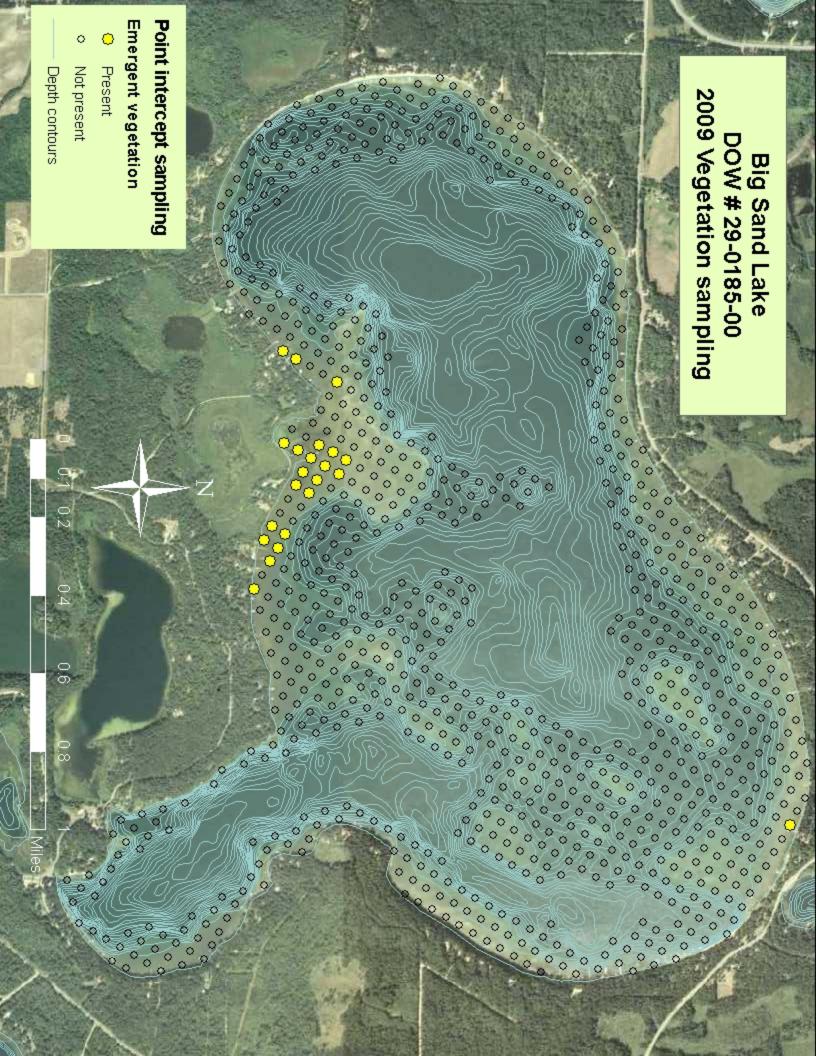


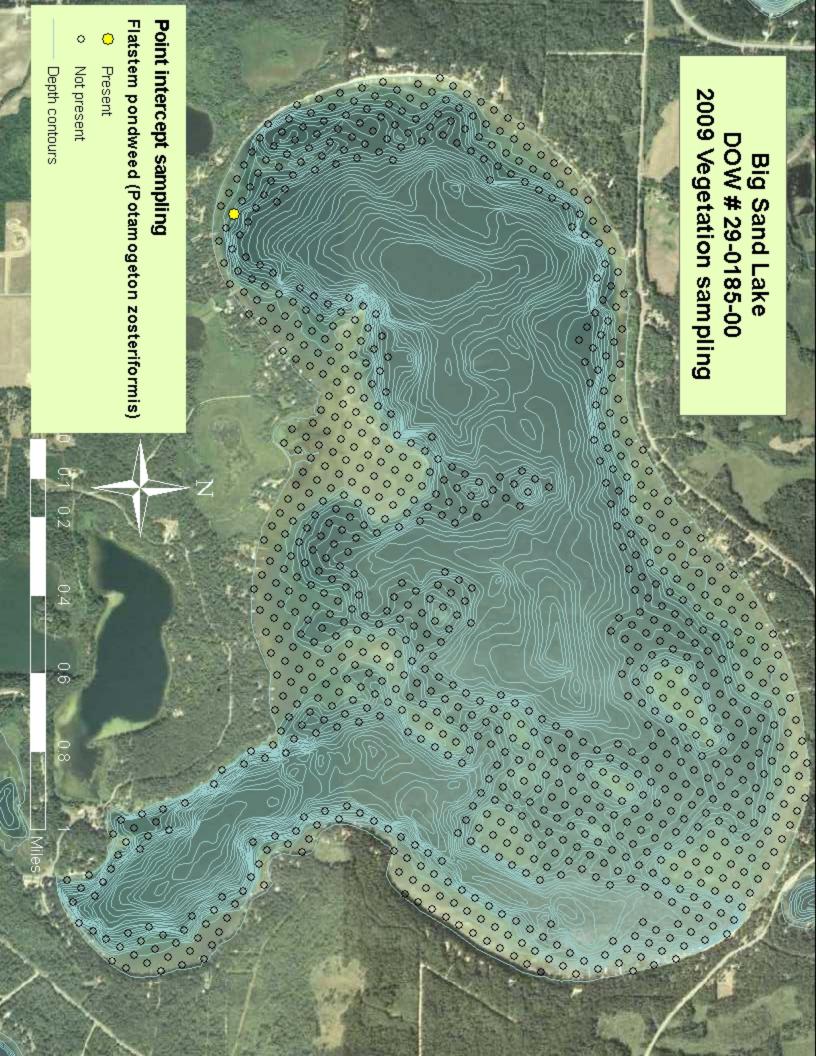


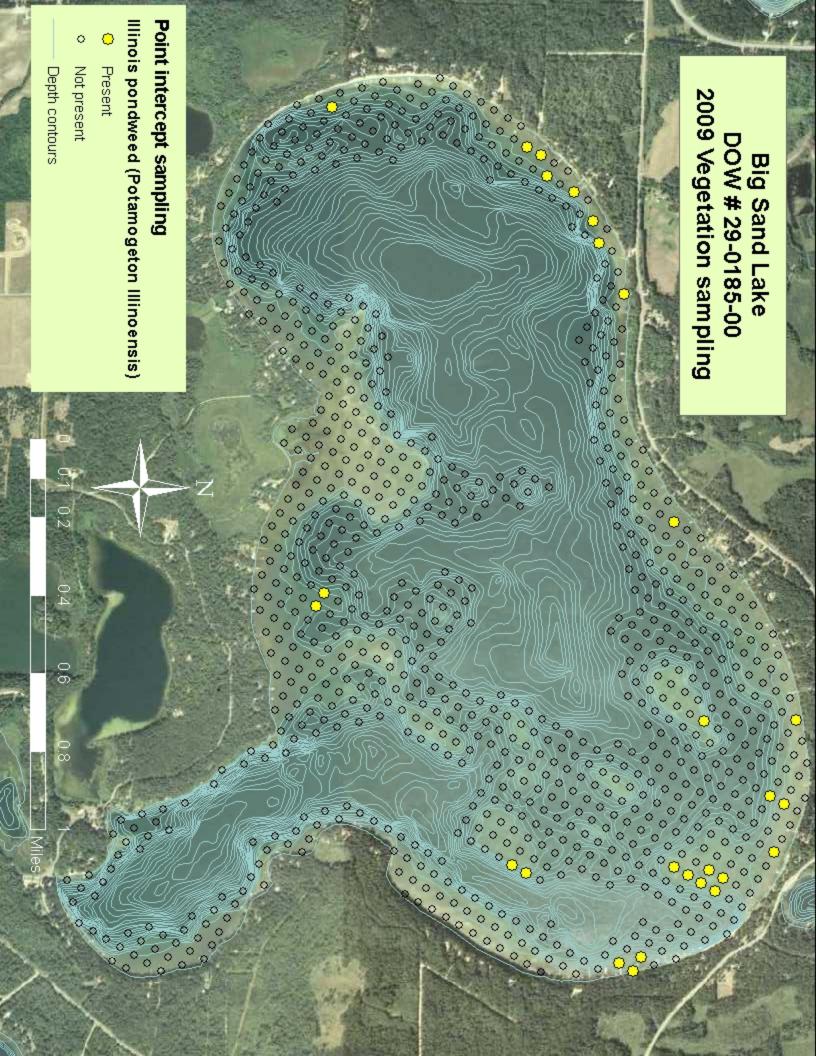


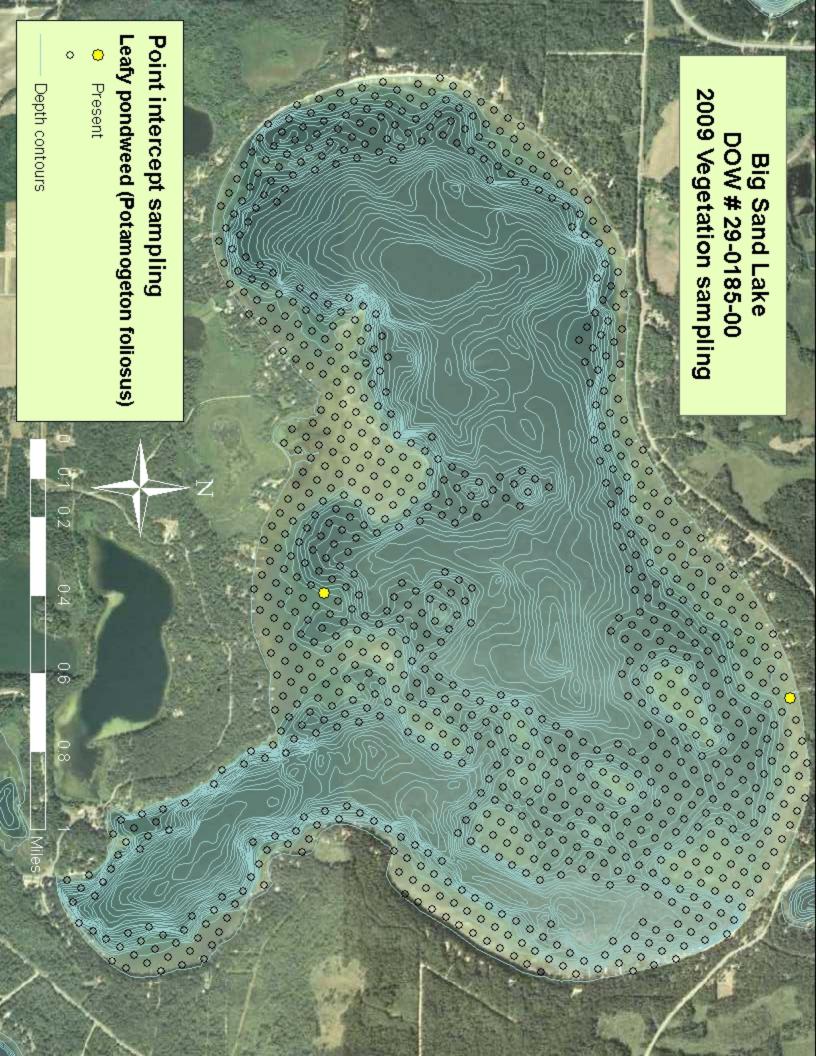


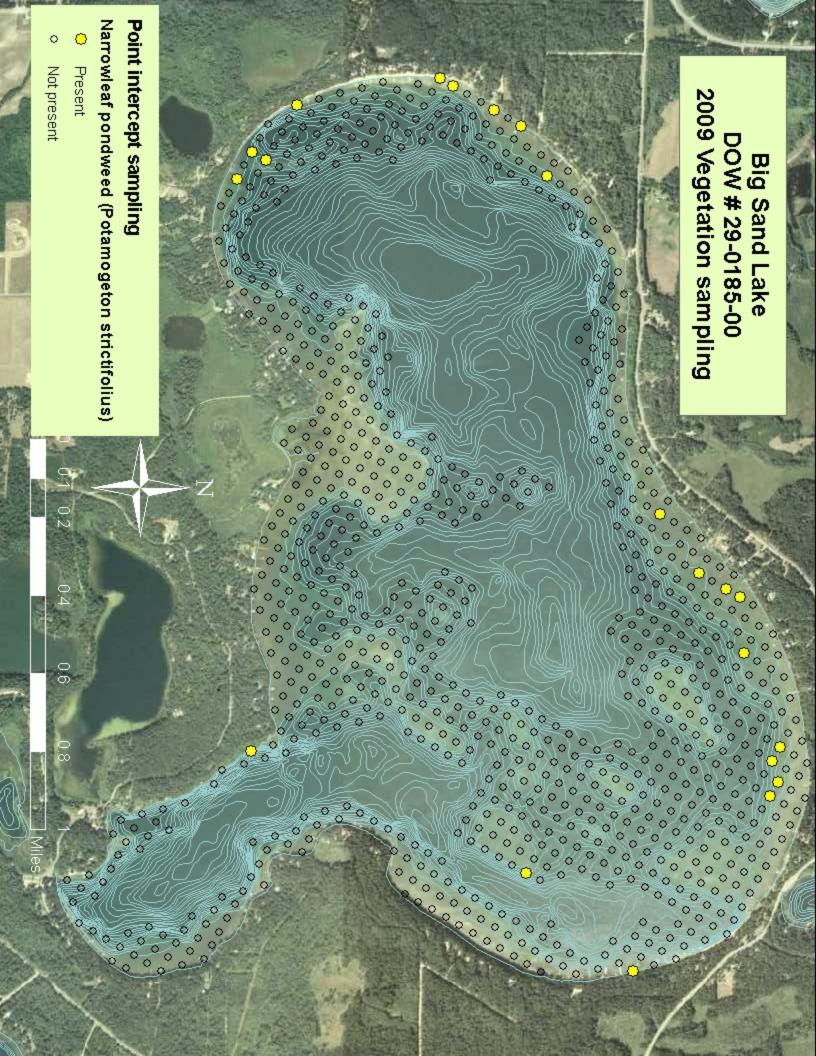


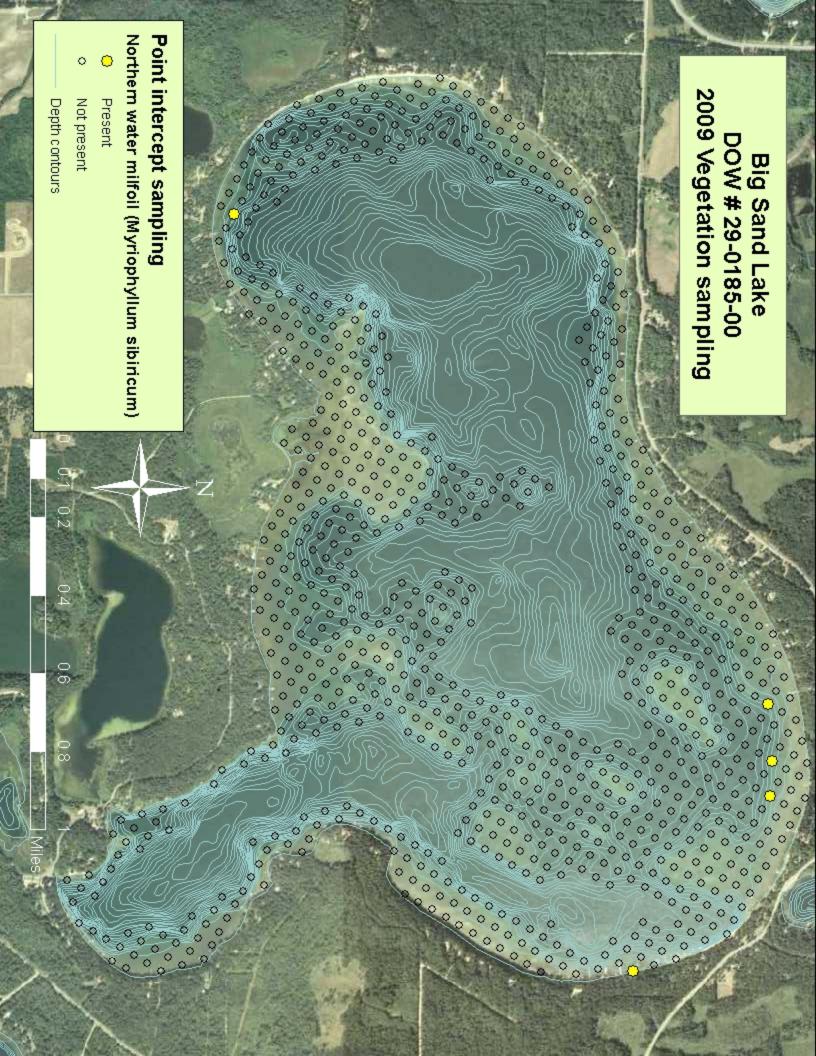


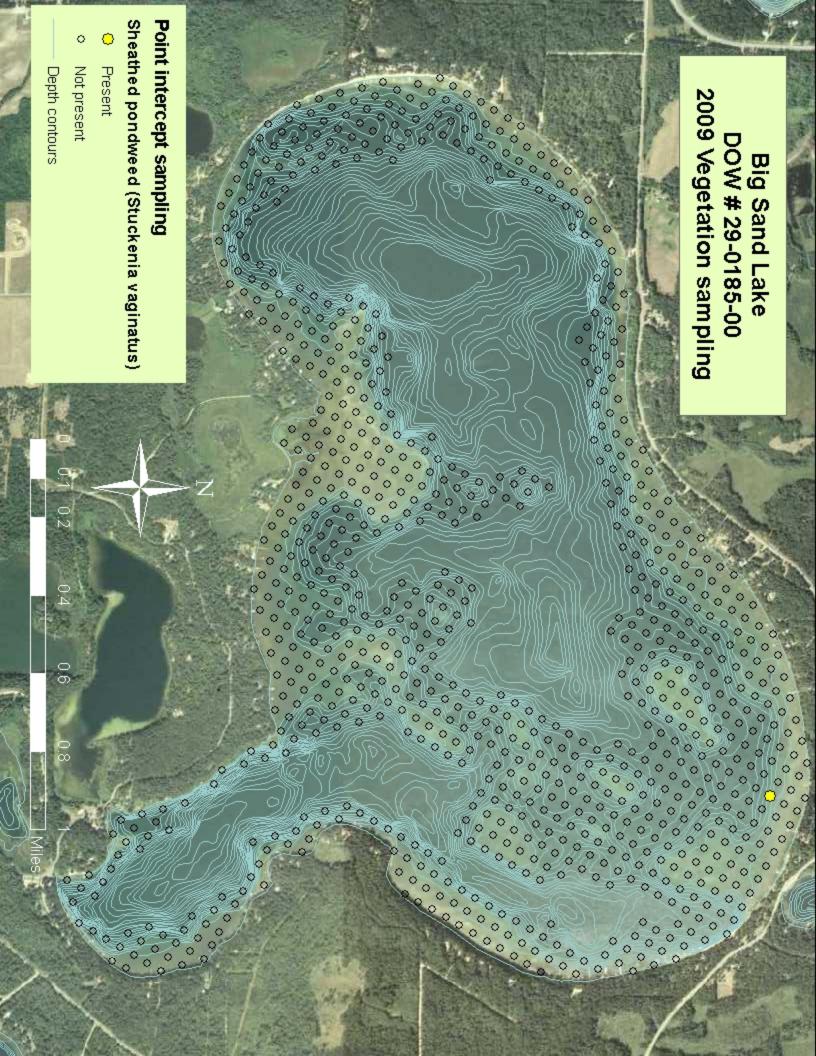


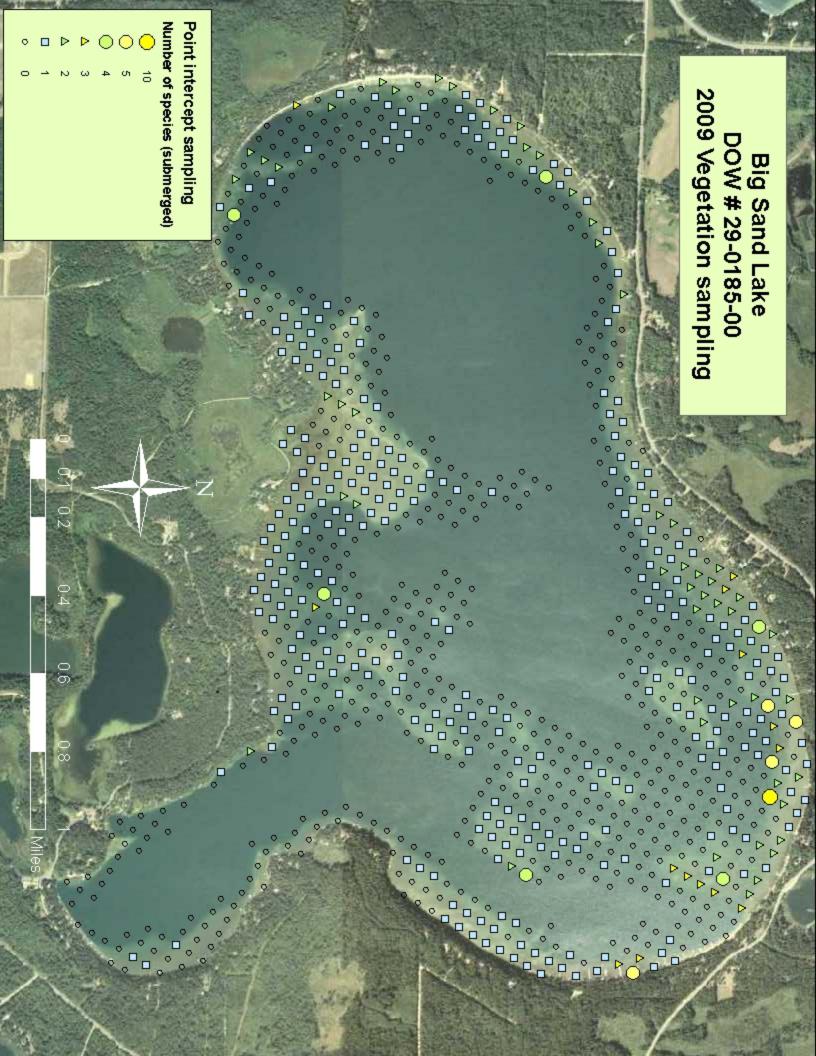


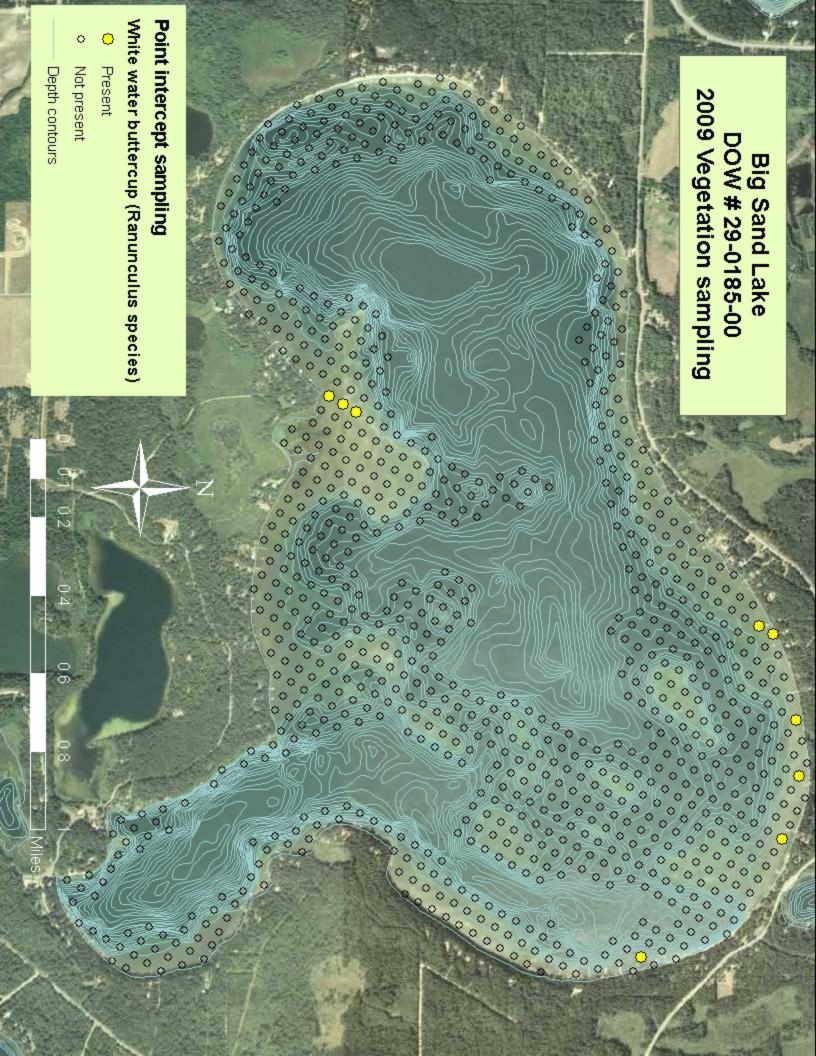


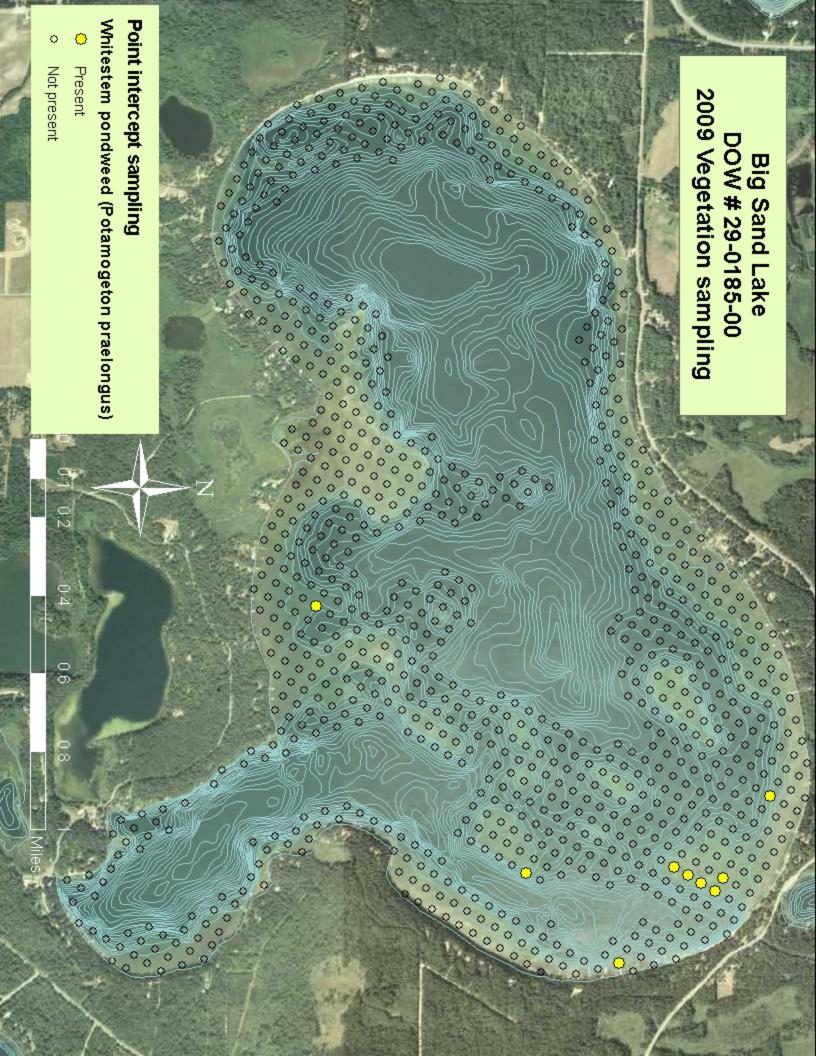


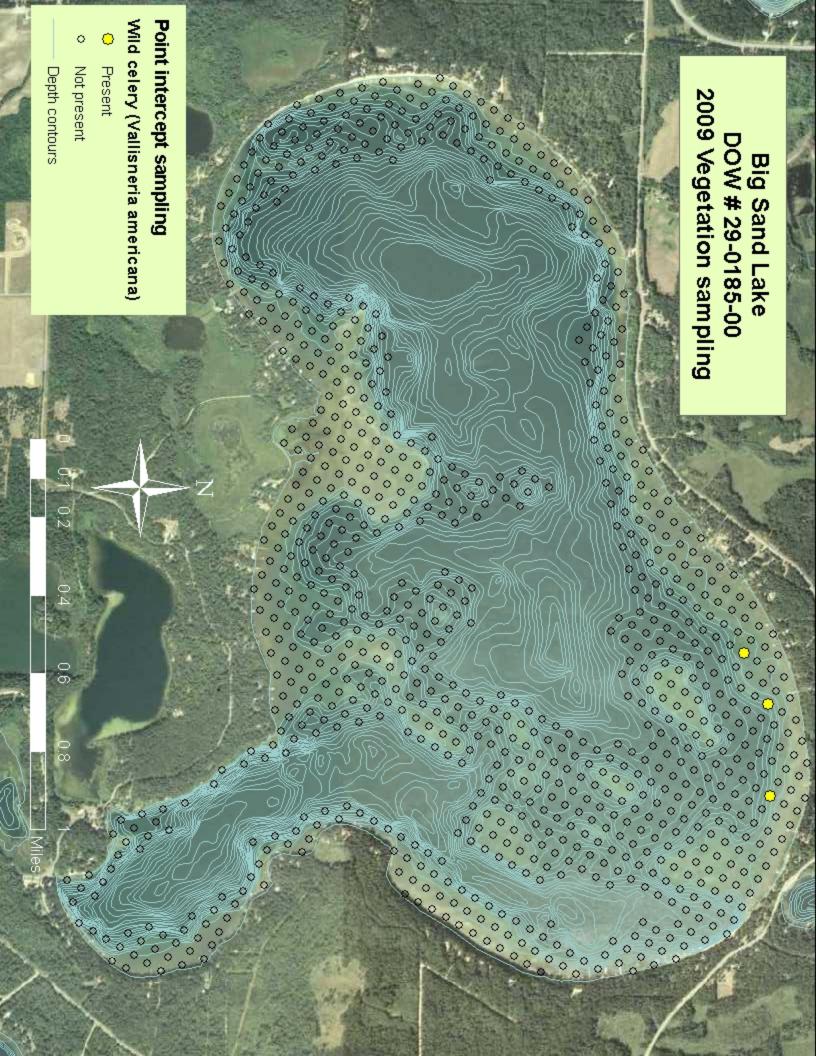








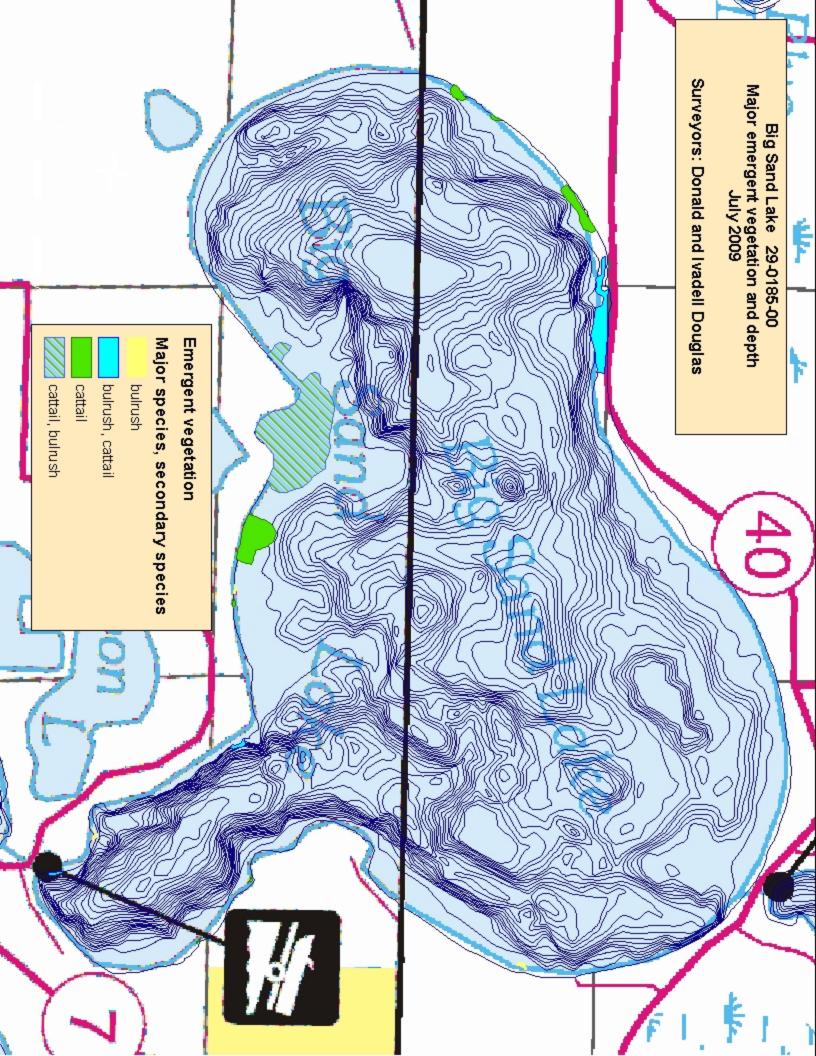


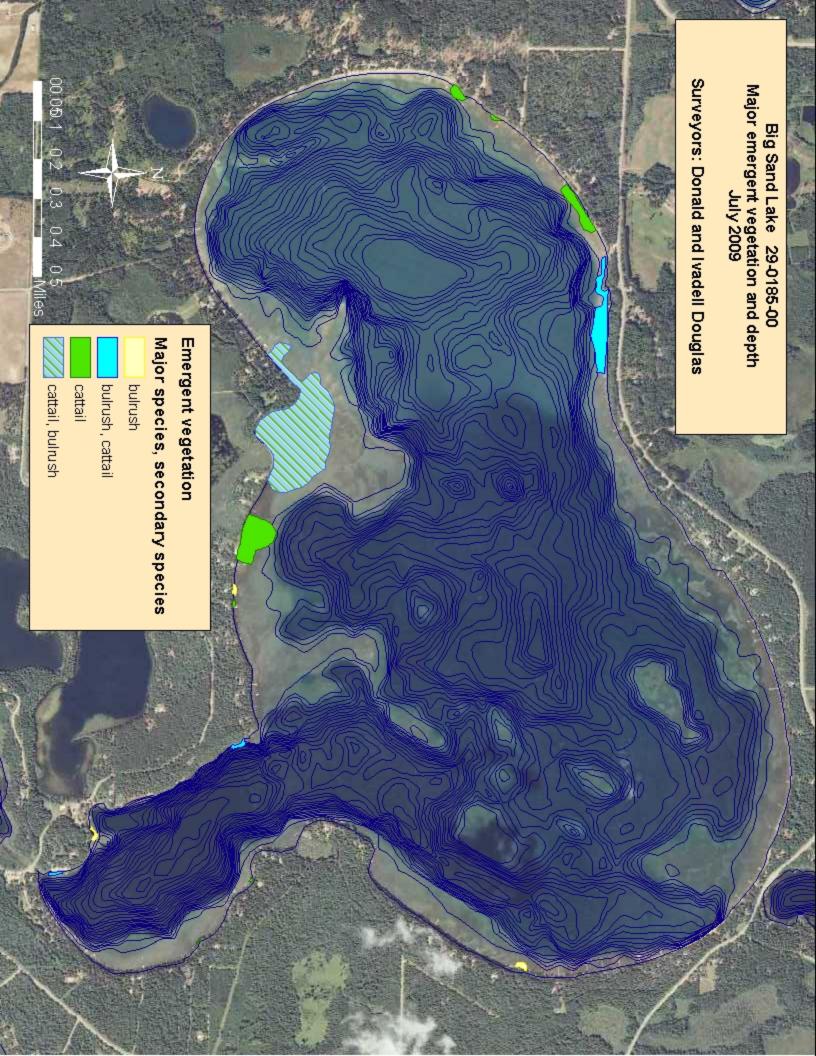












Surveyors: Donald and Ivadell Douglas Emergent vegetation stand types July 2009 cattail Big Sand Lake 29-0185-00 cattail Miles bulrush dominant with cattail cattail dominant with bulrush bulrush dominant with dominant with cattail bulrush

