

IDEM 2024 SAMPLING RESULTS
Cyanobacteria Cell Counts, Identification, and Cyanotoxin Results

Date	Location	Cells/ml	Dominant Species 1	Dominant Species 2	Dominant Species 3	¹ Microcystin ug/l	² Anatoxin-a ug/l	³ Saxitoxin ug/l	⁴ Cylindrospermopsin ug/l
7/29	Potato Creek SP – Worster Lake Beach	980,000	Pseudanabaena sp.	Planktolyngbya limnetica	Raphidiopsis sp.	ND	ND	ND	ND
7/29	Mississinewa Lake – Miami SRA Beach	420,000	Planktolyngbya limnetica	Raphidiopsis sp.	Pseudanabaena sp.	ND	ND	ND	ND
7/29	Salamonie Lake – Lost Bridge West SRA Beach	720,000	Planktolyngbya limnetica	Aphanocapsa sp.	Pseudanabaena sp.	ND	ND	ND	ND
7/29	Patoka Lake – Newton Stewart SRA Beach	510,000	Raphidiopsis sp.	Planktolyngbya limnetica	Picoplankton	ND	ND	ND	ND
7/22	Cagles Mill Lake - Lieber SRA Beach	480,000	Raphidiopsis sp.	Pseudanabaena sp.	Merismopedia sp.	ND	ND	ND	ND
7/22	Cecil M. Harden Lake - Raccoon Lake SRA Beach	1,100,000	Pseudanabaena sp.	Raphidiopsis sp.	Aphanothece sp.	ND	ND	ND	ND
7/22	Hardy Lake - Hardy Lake SRA Beach	630,000	Raphidiopsis sp.	Planktolyngbya limnetica	Pseudanabaena sp.	ND	ND	ND	ND
7/22	Starve Hollow SRA – Starve Hollow Lake Beach	710,000	Raphidiopsis sp.	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	ND
7/23	Brookville Lake - Mounds SRA Beach	220,000	Picoplankton	Pseudanabaena sp.	Aphanocapsa sp.	ND	ND	ND	ND
7/23	Brookville Lake - Quakertown SRA Beach	380,000	Merismopedia sp.	Aphanocapsa sp.	Pseudanabaena sp.	ND	ND	ND	ND
7/23	Whitewater Memorial SP – Whitewater Lake Beach	1,900,000	Pseudanabaena sp.	Merismopedia sp.	Raphidiopsis sp.	ND	ND	ND	ND
7/15	Chain O'Lakes SP – Sand Lake Beach	61,000	Aphanocapsa sp.	Aphanothece sp.	Aphanizomenon sp.	ND	ND	ND	ND
7/15	Ferdinand State Forest – Ferdinand Lake Beach	58,000	Aphanizomenon flos-aquae	Raphidiopsis sp.	Pseudanabaena sp.	ND	ND	ND	ND
7/15	Lincoln SP – Lake Lincoln Beach	76,000	Picoplankton	Merismopedia sp.	Aphanocapsa sp.	ND	ND	ND	ND
7/15	Ouabache SP – Kunkel Lake Beach	65,000	Aphanocapsa sp.	Dolichospermum sp.	Raphidiopsis sp.	ND	ND	ND	ND
7/15	Patoka Lake – Newton Stewart SRA Beach	350,000	Raphidiopsis sp.	Picoplankton	Planktolyngbya limnetica	ND	ND	ND	ND
7/15	Pokagon SP –Main Beach	51,000	Picoplankton	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	ND
7/15	Pokagon SP – Potawatomi Inn Beach	63,000	Picoplankton	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	ND
7/16	Mississinewa Lake – Miami SRA Beach	120,000	Aphanocapsa sp.	Merismopedia sp.	Planktolyngbya limnetica	ND	ND	ND	ND
7/16	Potato Creek SP – Worster Lake Beach	860,000	Planktolyngbya limnetica	Pseudanabaena sp.	Raphidiopsis sp.	ND	ND	ND	ND
7/16	Salamonie Lake – Lost Bridge West SRA Beach	210,000	Aphanocapsa sp.	Pseudanabaena sp.	Planktolyngbya limnetica	ND	ND	ND	ND
7/16	Summit Lake SP – Summit Lake Beach	260,000	Picoplankton	Chroococcus sp.	Aphanocapsa sp.	ND	ND	ND	ND

7/8	Cagles Mill Lake - Lieber SRA Beach	550,000	Aphanocapsa sp.	Pseudanabaena sp.	Merismopedia sp.	ND	ND	ND	ND
7/8	Cecil M. Harden Lake - Raccoon Lake SRA Beach	1,350,000	Pseudanabaena sp.	Merismopedia sp.	Aphanocapsa sp.	ND	ND	ND	ND
7/8	Monroe Lake - Fairfax SRA Beach	32,000	Picoplankton	Aphanothece sp.	Merismopedia sp.	ND	ND	ND	ND
7/8	Monroe Lake – Paynetown SRA Beach	31,000	Picoplankton	Aphanothece sp.	Merismopedia sp.	ND	ND	ND	ND
7/8	Starve Hollow SRA – Starve Hollow Lake Beach	340,000	Raphidiopsis sp.	Aphanizomenon sp.	Aphanizomenon flos-aquae	ND	ND	ND	ND
7/9	Whitewater Memorial SP – Whitewater Lake Beach	500,000	Pseudanabaena sp.	Aphanocapsa sp.	Merismopedia sp.	ND	ND	ND	ND
7/9	Brookville Lake - Mounds SRA Beach	170,000	Picoplankton	Pseudanabaena sp.	Aphanocapsa sp.	ND	ND	ND	ND
7/9	Brookville Lake - Quakertown SRA Beach	86,000	Picoplankton	Aphanothece sp.	Aphanocapsa sp.	ND	ND	ND	ND
7/9	Deam Lake SRA – Deam Lake Beach	4,300	Picoplankton	Chroococcus sp.		ND	ND	ND	ND
7/9	Hardy Lake - Hardy Lake SRA Beach	350,000	Raphidiopsis sp.	Aphanizomenon sp.	Aphanocapsa sp.	ND	ND	ND	ND
6/24	Cagles Mill Lake - Lieber SRA Beach	220,000	Aphanocapsa sp.	Pseudanabaena sp.	Raphidiopsis sp.	ND	ND	ND	NR
6/24	Cecil M. Harden Lake - Raccoon Lake SRA Beach	495,000	Aphanocapsa sp.	Pseudanabaena sp.	Aphanothece sp.	ND	ND	ND	NR
6/24	Hardy Lake - Hardy Lake SRA Beach	160,000	Aphanizomenon flos-aquae	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	NR
6/24	Starve Hollow SRA – Starve Hollow Lake Beach	740,000	Aphanizomenon flos-aquae	Aphanothece sp.	Aphanocapsa sp.	ND	ND	0.10	NR
6/25	Salamonie Lake – Lost Bridge West SRA Beach	230,000	Aphanothece sp.	Aphanocapsa sp.	Pseudanabaena sp.	ND	ND	ND	NR
6/25	Whitewater Memorial SP – Whitewater Lake Beach	170,000	Aphanothece sp.	Aphanocapsa sp.	Pseudanabaena sp.	ND	ND	ND	NR
6/17	Chain O’Lakes SP – Sand Lake Beach	32,000	Aphanocapsa sp.	Aphanizomenon sp.	Chroococcus sp.	ND	ND	ND	NR
6/17	Ferdinand State Forest – Ferdinand Lake Beach	28,000	Aphanocapsa sp.	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	NR
6/17	Lincoln SP – Lake Lincoln Beach	71,000	Picoplankton	Aphanocapsa sp.	Merismopedia sp.	ND	ND	ND	NR
6/17	Ouabache SP – Kunkel Lake Beach	48,000	Aphanocapsa sp.	Dolichospermum sp.	Aphanothece sp.	ND	ND	0.06	NR
6/17	Patoka Lake – Newton Stewart SRA Beach	140,000	Picoplankton	Aphanocapsa sp.	Chroococcus sp.	ND	ND	ND	NR
6/17	Pokagon SP –Main Beach	13,000	Picoplankton	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	NR
6/17	Pokagon SP – Potawatomi Inn Beach	21,000	Picoplankton	Aphanocapsa sp.	Chroococcus sp.	ND	ND	ND	NR
6/18	Mississinewa Lake – Miami SRA Beach	60,000	Dolichospermum sp.	Aphanocapsa sp.	Chroococcus sp.	0.94	ND	ND	NR
6/18	Potato Creek SP – Worster Lake Beach	66,000	Pseudanabaena sp.	Dolichospermum sp.	Aphanocapsa sp.	ND	ND	ND	NR
6/18	Salamonie Lake – Lost Bridge West SRA Beach	130,000	Aphanocapsa sp.	Aphanothece sp.	Pseudanabaena sp.	ND	ND	ND	NR
6/18	Summit Lake SP – Summit Lake Beach	98,000	Picoplankton	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	NR
6/10	Cagles Mill Lake - Lieber SRA Beach	180,000	Pseudanabaena sp.	Aphanocapsa sp.	Aphanizomenon sp.	ND	ND	ND	NR
6/10	Cecil M. Harden Lake - Raccoon Lake SRA Beach	400,000	Pseudanabaena sp.	Aphanocapsa sp.	Merismopedia sp.	ND	ND	ND	NR
6/10	Monroe Lake - Fairfax SRA Beach	36,000	Picoplankton	Merismopedia sp.	Aphanocapsa sp.	ND	ND	ND	NR
6/10	Monroe Lake – Paynetown SRA Beach	25,000	Picoplankton	Merismopedia sp.	Aphanocapsa sp.	ND	ND	ND	NR

6/10	Starve Hollow SRA – Starve Hollow Lake Beach	780,000	Aphanizomenon flos-aquae	Dolichospermum sp.	Aphanocapsa sp.	ND	ND	0.17	NR
6/11	Whitewater Memorial SP – Whitewater Lake Beach	100,000	Pseudanabaena sp.	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	NR
6/11	Brookville Lake - Quakertown SRA Beach	23,000	Pseudanabaena sp.	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	NR
6/11	Brookville Lake - Mounds SRA Beach	45,000	Aphanocapsa sp.	Pseudanabaena sp.	Picoplankton	ND	ND	ND	NR
6/11	Deam Lake SRA – Deam Lake Beach	38,000	Merismopedia sp.	Dolichospermum sp.	Picoplankton	ND	ND	ND	NR
6/11	Hardy Lake - Hardy Lake SRA Beach	160,000	Aphanizomenon sp.	Aphanizomenon flos-aquae	Aphanocapsa sp.	ND	ND	ND	NR
5/28	Brookville Lake - Quakertown SRA Beach	60,000	Aphanocapsa sp.	Aphanothece sp.	Chroococcus sp.	ND	ND	ND	NR
5/28	Cecil M. Harden Lake - Raccoon Lake SRA Beach	70,000	Pseudanabaena sp.	Aphanocapsa sp.	Chroococcus sp.	ND	ND	ND	NR
5/28	Ferdinand State Forest – Ferdinand Lake Beach	260,000	Aphanizomenon sp.	Pseudanabaena sp.	Aphanizomenon flos-aquae	ND	ND	ND	NR
5/28	Whitewater Memorial SP – Whitewater Lake Beach	755,000	Pseudanabaena sp.	Aphanothece sp.	Raphidiopsis sp.	ND	ND	ND	NR
5/20	Chain O'Lakes SP – Sand Lake Beach	5,550	Picoplankton	Chroococcus sp.	Aphanocapsa sp.	ND	ND	ND	NR
5/20	Ferdinand State Forest – Ferdinand Lake Beach	520,000	Pseudanabaena sp.	Aphanizomenon flos-aquae	Aphanocapsa sp.	ND	ND	ND	NR
5/20	Lincoln SP – Lake Lincoln Beach	7,700	Picoplankton	Merismopedia sp.	Aphanocapsa sp.	ND	ND	ND	NR
5/20	Ouabache SP – Kunkel Lake Beach	4,400	Chroococcus sp.	Picoplankton	Merismopedia sp.	ND	ND	ND	NR
5/20	Patoka Lake – Newton Stewart SRA Beach	70,000	Picoplankton	Merismopedia sp.	Chroococcus sp.	ND	ND	ND	NR
5/20	Pokagon SP –Main Beach	20,000	Picoplankton	Aphanocapsa sp.	Chroococcus sp.	ND	ND	ND	NR
5/20	Pokagon SP – Potawatomi Inn Beach	17,000	Picoplankton	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	NR
5/21	Mississinewa Lake – Miami SRA Beach	9,000	Chroococcus sp.	Merismopedia sp.	Pseudanabaena sp.	ND	ND	ND	NR
5/21	Potato Creek SP – Worster Lake Beach	11,000	Chroococcus sp.	Aphanocapsa sp.	Merismopedia sp.	ND	ND	ND	NR
5/21	Salamonie Lake – Lost Bridge West SRA Beach	36,000	Aphanocapsa sp.	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	NR
5/21	Summit Lake SP – Summit Lake Beach	10,000	Chroococcus sp.	Pseudanabaena sp.	Merismopedia sp.	ND	ND	ND	NR
5/13	Cagles Mill Lake - Lieber SRA Beach	41,000	Aphanocapsa sp.	Aphanothece sp.	Merismopedia sp.	ND	ND	ND	NR
5/13	Cecil M. Harden Lake - Raccoon Lake SRA Beach	960,000	Pseudanabaena sp.	Aphanocapsa sp.	Limnothrix sp.	ND	ND	ND	NR
5/13	Monroe Lake - Fairfax SRA Beach	22,500	Aphanocapsa sp.	Picoplankton	Merismopedia sp.	ND	ND	ND	NR
5/13	Monroe Lake – Paynetown SRA Beach	34,000	Aphanocapsa sp.	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	NR
5/13	Starve Hollow SRA – Starve Hollow Lake Beach	20,000	Aphanizomenon flos-aquae	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
5/14	Whitewater Memorial SP – Whitewater Lake Beach	1,400,000	Pseudanabaena sp.	Aphanizomenon sp.	Chroococcus sp.	ND	ND	ND	NR
5/14	Brookville Lake - Mounds SRA Beach	17,000	Aphanocapsa sp.	Merismopedia sp.	Picoplankton	ND	ND	ND	NR
5/14	Brookville Lake - Quakertown SRA Beach	110,000	Pseudanabaena sp.	Aphanizomenon sp.	Merismopedia sp.	ND	ND	ND	NR
5/14	Deam Lake SRA – Deam Lake Beach	54,000	Aphanothece sp.	Aphanocapsa sp.	Picoplankton	ND	ND	ND	NR

5/14	Hardy Lake - Hardy Lake SRA Beach	22,000	Aphanizomenon flos-aquae	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
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¹Microcystin detection and reporting limit is 0.30 ug/l.

²Anatoxin-a detection and reporting limit is 0.40 ug/l.

³Saxitoxin reporting limit is 0.05 ug/l.

⁴Cylindrospermopsin detection and reporting limit is 0.10 ug/l. Will be run on samples that contain the toxin producing species, generally starting in July.

NR-Not run

ND-Not detected