

Lake Mitchell

<i>Sample ID</i>	<i>Lab Number</i>	<i>Date Sampled</i>	<i>Method</i>	<i>Level Found</i>	<i>Units</i>	<i>Reporting Limits</i>
Public Beach	2572645	9/6/2016	Microcystin Assay	1.8	ppb	0.1
Public Beach	2575051	9/12/2016	Microcystin Assay	1.7	ppb	0.1
Public Beach	2624742	1/24/2017	Microcystin Assay	0.3	ppb	0.1
Public Beach	2671200	5/16/2017	Microcystin Assay	1.2	ppb	0.1
Sandy Beach	2671198	5/16/2017	Microcystin Assay	0.2	ppb	0.1
Campground	2671201	5/16/2017	Microcystin Assay	0.4	ppb	0.1
Center of Lake	2671199	5/16/2017	Microcystin Assay	0.2	ppb	0.1
Public Beach	2677674	5/31/2017	Microcystin Assay	0.4	ppb	0.1
Sandy Beach	2677675	5/31/2017	Microcystin Assay	0.2	ppb	0.1
Center of Lake	2677676	5/31/2017	Microcystin Assay	n.d.	ppb	0.1
Public Beach	2679151	6/5/2017	Microcystin Assay	0.2	ppb	0.1
Sandy Beach	2679152	6/5/2017	Microcystin Assay	0.4	ppb	0.1
Center of Lake	2679153	6/5/2017	Microcystin Assay	0.2	ppb	0.1
Public Beach	1527096-01	6/5/2017	Chlorophyll-A	134	ug/L	3
Sandy Beach	1527096-02	6/5/2017	Chlorophyll-A	96	ug/L	3
Center of Lake	1527096-03	6/5/2017	Chlorophyll-A	133	ug/L	3
Public Beach	1526214-01	6/12/2017	Chlorophyll-A	140	ug/L	3
Sandy Beach	1526214-03	6/12/2017	Chlorophyll-A	163	ug/L	3
Center of Lake	1526214-02	6/12/2017	Chlorophyll-A	193	ug/L	3
Public Beach	1526211-01	6/19/2017	Chlorophyll-A	236	ug/L	3
Center of Lake	1526211-02	6/19/2017	Chlorophyll-A	151	ug/L	3

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Sandy Beach	1526211-03	6/19/2017	Chlorophyll-A	37	ug/L	3
Public Beach	1526212-01	6/26/2017	Chlorophyll-A	174	ug/L	3
Sandy Beach	1526212-02	6/26/2017	Chlorophyll-A	39	ug/L	3
Center of Lake	1526212-03	6/26/2017	Chlorophyll-A	172	ug/L	3
Public Beach	2691425	7/3/2017	Microcystin Assay	n.d.	ppb	0.1
Sandy Beach	2961427	7/3/2017	Microcystin Assay	n.d.	ppb	0.1
Center of Lake	2961426	7/3/2017	Microcystin Assay	n.d.	ppb	0.1
Public Beach	1528294-01	7/3/2017	Chlorophyll-A	24	ug/L	3
Sandy Beach	1528294-02	7/3/2017	Chlorophyll-A	46	ug/L	3
Center of Lake	1528294-03	7/3/2017	Chlorophyll-A	16	ug/L	3
Public Beach	1528293-01	7/10/2017	Chlorophyll-A	42	ug/L	3
Sandy Beach	1528293-02	7/10/2017	Chlorophyll-A	76	ug/L	3
Center of Lake	1528293-03	7/10/2017	Chlorophyll-A	70	ug/L	3
Public Beach	1528292-01	7/17/2017	Chlorophyll-A	46	ug/L	3
Sandy Beach	1528292-03	7/17/2017	Chlorophyll-A	149	ug/L	3
Center of Lake	1528292-02	7/17/2017	Chlorophyll-A	45	ug/L	3
Public Beach	1529017-01	7/24/2017	Chlorophyll-A	193	ug/L	3
Sandy Beach	1529017-03	7/24/2017	Chlorophyll-A	26	ug/L	3
Center of Lake	1529017-02	7/24/2017	Chlorophyll-A	65	ug/L	3
Public Beach	2702557	7/31/2017	Microcystin Assay	5	ppb	0.1
Sandy Beach	2702557	7/31/2017	Microcystin Assay	3.4	ppb	0.1

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Center of Lake	2702557	7/31/2017	Microcystin Assay	29	ppb	0.1
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Public Beach	1529020-01	7/31/2017	Chlorophyll-A	43	ug/L	3
Sandy Beach	1529020-03	7/31/2017	Chlorophyll-A	286	ug/L	3
Center of Lake	1529020-02	7/31/2017	Chlorophyll-A	27	ug/L	3
Public Beach	1529019-01	8/7/2017	Chlorophyll-A	15	ug/L	3
Sandy Beach	1529019-03	8/7/2017	Chlorophyll-A	39	ug/L	3
Center of Lake	1529019-02	8/7/2017	Chlorophyll-A	31	ug/L	3
Public Beach	2705411	8/7/2017	Microcystin Assay	1.1	ppb	0.1
Sandy Beach	2705413	8/7/2017	Microcystin Assay	6.1	ppb	0.1
Center of Lake	2705412	8/7/2017	Microcystin Assay	2.4	ppb	0.1
Public Beach	2708230	8/14/2017	Microcystin Assay	8.8	ppb	0.1
Sandy Beach	2708232	8/14/2017	Microcystin Assay	1.8	ppb	0.1
Center of Lake	2708231	8/14/2017	Microcystin Assay	16	ppb	0.1
Public Beach	152891-01	8/14/2017	Chlorophyll-A	121	ug/L	3
Sandy Beach	152891-03	8/14/2017	Chlorophyll-A	30	ug/L	3
Center of Lake	152891-02	8/14/2017	Chlorophyll-A	91	ug/L	3
Public Beach	1529755-01	8/21/2017	Chlorophyll-A	54	ug/L	3
Sandy Beach	1529756-01	8/21/2017	Chlorophyll-A	40	ug/L	3
Center of Lake	1529757-01	8/21/2017	Chlorophyll-A	52	ug/L	3
Public Beach	2711314	8/21/2017	Microcystin Assay	6.5	ppb	0.1

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Sandy Beach	2711316	8/21/2017	Microcystin Assay	7.7	ppb	0.1
Center of Lake	2711315	8/21/2017	Microcystin Assay	6.8	ppb	0.1
Public Beach	2713960	8/28/2017	Microcystin Assay	16	ppb	0.1
Sandy Beach	2713962	8/28/2017	Microcystin Assay	8	ppb	0.1

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Center of Lake	2713961	8/28/2017	Microcystin Assay	9	ppb	0.1
Public Beach	1530106-01	9/5/2017	Chlorophyll-A	97	ug/L	3
Sandy Beach	1530106-03	9/5/2017	Chlorophyll-A	82	ug/L	3
Center of Lake	1530103-02	9/5/2017	Chlorophyll-A	68	ug/L	3
Public Beach	2716969	9/5/2017	Microcystin Assay	4	ppb	0.1
Sandy Beach	2716971	9/5/2017	Microcystin Assay	2	ppb	0.1
Center of Lake	2716970	9/5/2017	Microcystin Assay	8	ppb	0.1
Public Beach	1530104-01	9/11/2017	Chlorophyll-A	29	ug/L	3
Sandy Beach	1530104-03	9/11/2017	Chlorophyll-A	73	ug/L	3
Center of Lake	1530104-02	9/11/2017	Chlorophyll-A	59	ug/L	3
Public Beach	2719447	9/11/2017	Microcystin Assay	4.2	ppb	0.1
Sandy Beach	2719449	9/11/2017	Microcystin Assay	6.2	ppb	0.1
Center of Lake	2719448	9/11/2017	Microcystin Assay	5.2	ppb	0.1
Public Beach	2722579	9/18/2017	Microcystin Assay	2	ppb	0.1
Sandy Beach	2722581	9/18/2017	Microcystin Assay	8	ppb	0.1
Center of Lake	2722580	9/18/2017	Microcystin Assay	1.7	ppb	0.1

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Public Beach	1530105-01	9/18/2017	Chlorophyll-A	52	ug/L	3
Sandy Beach	1530105-03	9/18/2017	Chlorophyll-A	76	ug/L	3
Center of Lake	1530105-02	9/18/2017	Chlorophyll-A	52	ug/L	3
Public Beach	1531034-01	9/25/2017	Chlorophyll-A	32	ug/L	3
Sandy Beach	1531034-03	9/25/2017	Chlorophyll-A	26	ug/L	3

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Center of Lake	1531034-02	9/25/2017	Chlorophyll-A	38	ug/L	3
Public Beach	2725803	9/25/2017	Microcystin Assay	1.6	ppb	0.1
Sandy Beach	2725805	9/25/2017	Microcystin Assay	1	ppb	0.1
Center of Lake	2725804	9/25/2017	Microcystin Assay	6	ppb	0.1
Public Beach	2728622	10/2/2017	Microcystin Assay	1	ppb	0.1
Sandy Beach	2728624	10/2/2017	Microcystin Assay	0.7	ppb	0.1
Center of Lake	2728623	10/2/2017	Microcystin Assay	12	ppb	0.1
Public Beach	1531033-01	10/5/2017	Chlorophyll-A	41	ug/L	3
Sandy Beach	1531033-03	10/5/2017	Chlorophyll-A	27	ug/L	3
Center of Lake	1513033-02	10/5/2017	Chlorophyll-A	70	ug/L	3

EPA Guideline Table

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EPA Guideline Table

	EPA Guideline Table					
	Relative Probability of Acute Health Effects	Cyanobacteria (cells/mL)	Microcystin-LR (µg/L)	Chlorophyll-a (µg/L)		
	Low	< 20,000	<4	<10		
	Moderate	20,000-100,000	4-20	10-50		
	High	100,000-10,000,000	20-2,000	50-5,000		
	Very High	> 10,000,000	>2,000	>5,000		

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E. coli Test Results

Location	ID Number	Date Collected	Date Received	Temp Received	E. Coli Results /100ml	Units	Comments
Sandy Beach	BO84	5/31/2016	6/1/2016	18 C	25.9	MPN	No Ice Packs
Public Beach	BO34	5/31/2016	6/1/2016	18 C	12.1	MPN	No Ice Packs
Sandy Beach	BO84	6/6/2016	6/7/2016	17 C	6.3	MPN	No Cooler
Public Beach	Bo34	6/6/2016	6/7/2016	17 C	7.3	MPN	No Cooler
Sandy Beach	BO84	6/13/2016	6/14/2016	21 C	<1	MPN	No Cooler
Public Beach	BO34	6/16/2016	6/14/2016	21 C	2	MPN	No Cooler
Sandy Beach	BO84	6/20/2016	6/21/2016	1 C	1	MPN	
Public Beach	BO34	6/20/2016	6/21/2016	1 C	6.3	MPN	
Sandy Beach	BO84	6/27/2016	6/28/2016	1 C	<1	MPN	
Public Beach	BO34	6/27/2016	6/28/2016	1 C	<1	MPN	
Sandy Beach	BO84	7/5/2016	7/6/2016	3 C	5.2	MPN	
Public Beach	BO34	7/5/2016	7/6/2016	3 C	7.3	MPN	
Sandy Beach	BO84	7/13/2016	7/14/2016	4 C	1	MPN	
Public Beach	BO34	7/13/2016	7/14/2016	4 C	1	MPN	
Sandy Beach	BO84	7/18/2016	7/19/2016	3 C	6.2	MPN	
Public Beach	BO34	7/18/2016	7/19/2016	3 C	3	MPN	
Sandy Beach	BO84	7/28/2016	7/29/2016	5 C	<10	MPN	
Public Beach	BO34	7/28/2016	7/29/2016	5 C	<10	MPN	
Sandy Beach	BO84	8/3/2016	8/4/2016	3 C	1	MPN	
Public Beach	BO34	8/3/2016	8/4/2016	3 C	86.7	MPN	Bottle Not Marked
Sandy Beach	BO84	8/8/2016	8/9/2016	3 C	1	MPN	
Public Beach	BO34	8/8/2016	8/9/2016	3 C	46.5	MPN	
Sandy Beach	BO84	8/15/2016	8/16/2016	6 C	1	MPN	
Public Beach	BO34	8/15/2016	8/16/2015	6 C	2	MPN	
Sandy Beach	BO84	8/22/2016	8/23/2016	5 C	1	MPN	Bottle Not Marked

Tests done and reported by South Dakota
Department of Health Laboratory
MPN = Most Probable Number

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E. coli Test Results

Location	ID Number	Date Collected	Date Received	Temp Received	E. Coli Results /100ml	Units	Comments
Public Beach	BO34	8/22/2016	8/23/2016	5 C	3	MPN	Bottle Not Marked
Sandy Beach	BO84	8/29/2016	8/30/2016	8 C	1	MPN	
Public Beach	BO34	8/29/2016	8/30/2016	8 C	<1	MPN	
Sandy Beach	BO84	9/6/2016	9/7/2016	4 C	7.3	MPN	
Public Beach	BO34	9/6/2016	9/7/2016	4 C	58.1	MPN	
Sandy Beach	BO84	9/12/2016	9/13/2015	7 C	<1	MPN	
Public Beach	BO34	9/12/2016	9/13/2016	7 C	1	MPN	
Public Beach	BO34	5/30/2017	5/31/2017	1 C	14.5	MPN	
Sandy Beach	BO84	5/30/2017	5/31/2017	1 C	<1	MPN	
Campground	Camp	5/30/2017	5/31/2017	1C	2	MPN	
Public Beach	BO34	6/5/2017	6/6/2017	1C	<1	MPN	
Sandy Beach	BO84	6/5/2017	6/6/2017	1C	579	MPN	
Campground	Camp	6/5/2017	6/6/2017	1C	9.5	MPN	
Public Beach	BO34	6/12/2017	6/13/2017	2C	3	MPN	
Sandy Beach	BO84	6/12/2017	6/13/2017	2C	3.1	MPN	
Campground	Camp	6/12/2017	6/13/2017	2C	3.1	MPN	
Public Beach	BO34	6/19/2017	6/20/2017	2C	1	MPN	
Sandy Beach	BO84	6/19/2017	6/20/2017	2C	1	MPN	
Campground	Camp	6/19/2017	6/20/2017	2C	1	MPN	
Public Beach	BO34	6/26/2017	6/27/2017	2c	<1	MPN	
Sandy Beach	BO84	6/26/2017	6/27/2017	2c	<1	MPN	
Campground	Camp	6/26/2017	6/27/2017	2c	<1	MPN	
Public Beach	BO34	7/3/2017	7/4/2017	3c	<1	MPN	
Sandy Beach	BO84	7/3/2017	7/4/2017	3c	22.6	MPN	
Campground	Camp	7/31/2007	7/4/2017	3c	1	MPN	

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E. coli Test Results

Location	ID Number	Date Collected	Date Received	Temp Received	E. Coli Results /100ml	Units	Comments
Public Beach	BO34	7/10/2017	7/11/2017	0c	1	MPN	
Sandy Beach	BO84	7/10/2017	7/11/2017	0c	1	MPN	
Campground	Camp	7/10/2017	7/11/2017	0c	<1	MPN	
Public Beach	BO34	7/17/2017	7/18/2017	3c	2	MPN	
Sandy Beach	BO84	7/17/2017	7/18/2017	3c	1	MPN	
Campground	Camp	7/17/2017	7/18/2017	3c	1	MPN	
Public Beach	BO34	7/24/2017	7/25/2017	1c	<1	MPN	
Sandy Beach	BO84	7/24/2017	7/25/2017	1c	2	MPN	
Campground	Camp	7/24/2017	7/25/2017	1c	<1	MPN	
Public Beach	BO34	7/31/2017	8/1/2017	3c	3	MPN	
Sandy Beach	BO84	7/31/2017	8/1/2017	3c	3.1	MPN	
Campground	Camp	7/31/2017	8/1/2017	3c	1	MPN	
Public Beach	BO34	8/8/2017	8/10/2017	3c	2	MPN	
Sandy Beach	BO84	8/8/2017	8/10/2017	3c	<1	MPN	
Campground	Camp	8/8/2017	8/10/2017	3c	<1	MPN	
Public Beach	BO34	8/15/2017	8/16/2017	3c	10.6	MPN	
Sandy Beach	BO84	8/15/2017	8/16/2017	3c	1	MPN	
Campground	Camp	8/15/2017	8/16/2017	3c	2	MPN	
Public Beach	BO34	8/22/2017	8/23/2017	2c	1	MPN	
Sandy Beach	BO84	8/22/2017	8/23/2017	2c	<1	MPN	
Campground	Camp	8/22/2017	8/23/2017	2c	<1	MPN	
Public Beach	BO34	8/28/2017	8/29/2017	1C	1	MPN	
Sandy Beach	BO84	8/28/2017	8/29/2017	1C	<1	MPN	
Campground	Camp	8/28/2017	8/29/2017	1C	<1	MPN	
EPA's bacteria criteria of a single sample maximum E. coli standard of <235/100 MPN. If E. coli counts are above the standards, the beach is closed until a sample has a result of <235/100 ml MPN							

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