



Beaches

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Thunder Bay District
Health Unit

Beaches

- Ontario Public Health Standards (OPHS)
- Beach Management Protocol
 - **Definitions of public beach**
 - 2008 vs 2014
- 2014 beach data
- 2015 beach data
- 2005-2015 beach summaries



Ontario Public Health Standards (OPHS)

- Published by the Minister of Health and Long-Term Care
- Under the authority of the Health Protection and Promotion Act (HPPA)
- Specifies mandatory health programs and services provided by boards of health
- Protocols are program and topic specific documents
 - **Provide direction to boards of health**
 - **Identify minimum expectations for public health programs and services**

Beach Management Protocol, 2008

Public beach

- A beach owned and/or operated by a municipality which:
 - **The general public has direct access to;**
 - **Allows supervised aquatics programs or is staffed by lifeguards; and**
 - **Meets the requirements of the sampling protocol for sampling sites**

Operational Roles and Responsibilities:

- The board of health may also monitor any other public bathing area, except provincial parks, to which the public has access, and where there is reason to believe that recreational use of the water may result in waterborne illness or injury.
- 5 city locations and 14 district locations



2014 Beach Season

- TBDHU decided to monitor and sample only those beaches that met the true definition of a beach as defined in the Beach Management Protocol, 2008
 - Allows supervised aquatics programs or is staffed by lifeguards
 - Boulevard Main (Lakeview) and Chippewa Sandy Beach
 - Chippewa Main Beach?

2014 Beach Season

- Chippewa Main Beach
 - Beach Management Protocol, 2008:
 - Where historical data show that the bacterial counts consistently either exceed or fluctuate above the limits set for recreational use, the beach may be permanently posted.
 - Permanently posted with a swimming advisory sign for 2014
 - Beach samples still collected at the weekly minimum for monitor purposes at this location



2014 Beach Data-Boulevard Lake (Main)

BEACH	Date (d/m)	Person Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)/Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted # days posted	Data entered by:
Main	23-Jun	KA	20	20	0	0.6	1.1	11 E	t/s	Nil	S	0	0	C	Good	11			TKS
Main	2-Jul	KA	17	16	0	0	0.6	12 WNW	t/s	S	S	0	0	C	Good	53			TKS
Main	7-Jul	TKS	21	20	0	25.6	34.0	16 W	t/s	Nil	M	0	25 gulls on raft	C	Sanitary	137	Posted	08-Jul	TKS
Main	9-Jul	TKS	12	17	0	0.2	0.2	5 E	t/s	Nil	S	0	12 gulls	C	Goose droppings on shore	54	Lifted	10-Jul	2 TKS
Main	14-Jul	KA	15	20	0	1.2	1.2	1 N	Nil	Nil	S	6	0	C	Good-multiple piles of goose droppings	31			TKS
Main	21-Jul	TKS	22	21	0	0	0.4	Nil	Nil	Nil	S	0	40 gulls on raft	C	Sanitary-very low water level	19			
Main	28-Jul	KA	20	20	0	1.6	8.5	11 W	t/s	Nil	S	0	0	C	Good	165	Posted	30-Jul	TKS
Main	31-Jul	KA	22	20	0	16.6	20.5	9 WSW	t/s	Nil	S	0	0	C	Unsanitary-large piles of goose droppings	47	Lifted	01-Aug	2 TKS
Main	5-Aug	KA	22	21	0	0	1.2	7 WSW	Nil	Nil	S	0	0	C	Sanitary	10			TKS
Main	11-Aug	TKS	18	24	L	14.9	14.9	6 NE	Nil	Nil	O	0	0	C	Sanitary	115	Posted	12-Aug	TKS
Main	13-Aug	KA	21	20	0	0	17.3	6 NW	t/s	Nil	S	0	0	C	Sanitary	66	Lifted	14-Aug	2 TKS
Main	19-Aug	KA	16	19	0	missing	0.0	11	Nil	0	O	0	0	C	Sanitary	12			TKS
Main	25-Aug	TKS	21	20	0	0	M	2 SW	Nil	Nil	M	0	0	T	Sanitary	148	Posted	26-Aug	TKS
Main	27-Aug	TKS	12	20	0	0	3.4	7 W	Nil	Nil	M	0	40-50 geese in area	C	Sanitary	55	Lifted	28-Aug	2 TKS
Notes: Beach season officially began June 27-end of Aug 31 (66 days)																	Days posted	8	

2014 Beach Season-Chippewa (Sandy)

BEACH	Date (d/m)	Person Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)/Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted # days posted	Data entered by:
Sandy Beach	23-Jun	KA	20	16	0	0.6	1.1	11 E	t/s	M	S	0		C	Good	<10			TKS
Sandy Beach	02-Jul	TKS	14	9	0	0	0.6	20 NW	t/s	Nil	S	0		C	Sanitary	<10			TKS
Sandy Beach	7-Jul	TKS	17	10	0	25.6	34	20 W	t/s	Nil	M	0		C	Sanitary	<10			TKS
Sandy Beach	14-Jul	KA	14	12	0	1.2	1.2	1 N	Nil	Nil	S	0		C	Sanitary	<10			TKS
Sandy Beach	21-Jul	TKS	15	12	0	0	0.4	Nil	t/s	S	S	0		C	Sanitary	<10			TKS
Sandy Beach	28-Jul	TKS	17	16	0	1.6	8.5	11 SW	t/s	Nil	M	0		C	Sanitary	<10			TKS
Sandy Beach	5-Aug	TKS	18	17	0	0	0.0	6 SW	Nil	Nil	S	0	12 geese outside swimming area	C	Garbage on shoreline, no droppings	<10			TKS
Sandy Beach	11-Aug	TKS	17	18	L	14.9	14.9	6 NE	t/s	S to M	O	0		T	Garbage on shoreline, no droppings	66			TKS
Sandy Beach	19-Aug	KA	14	15	0	missing	0.0	11	t/s		O	0		T	Sanitary	591	Posted	20-Aug	TKS
Sandy Beach	25-Aug	TKS	21	19	0	0	M	2 SW	t/s	Nil	M	0		T	Sanitary	>1000			TKS
Sandy Beach	27-Aug	TKS	15	15	0	0	3.4	7 W	Nil	Nil	M	0		C	Sanitary	24	Lifted	28-Aug	8 TKS

Notes: Beach season officially began June 27-end of Aug 31 (66 days)

Days posted 8

2014 Beach Season-Chippewa (Main)

BEACH	Date (d/m)	Person	Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)/Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted	# days posted	Data entered by:
Main Beach																PERMANENTLY POSTED					
Main Beach	7-Jul	TKS	17	10	0	25.6	34	20	W	t/s	Nil	M	0	14 geese	C	Sanitary	55	Perm. Posted		TKS	
Main Beach	14-Jul	KA	14	13	0	1.2	1.2	1	N	Nil	Nil	S	0	0	C	Unsanitary-heavy acculuation of droppings	<10	Perm. Posted		TKS	
Main Beach	21-Jul	TKS	15	12	0	0	0.4	Nil	Nil	Nil	S	0	40 geese on shore, 40 in water	C	Unsanitary-heavy acculuation of droppings	60	Perm. Posted		TKS		
Main Beach	28-Jul	TKS	17	18	0	1.6	8.5	11	SW	Nil	Nil	M	0	0	T	Unsanitary-heavy acculuation of droppings	136	Perm. Posted		TKS	
Main Beach	5-Aug	TKS	18	19	0	0.0	0.0	6	SW	Nil	Nil	S	0	0	C	Unsanitary-heavy acculuation of droppings	57	Perm. Posted		TKS	
Main Beach	11-Aug	TKS	17	18	L	14.9	14.9	6	NE	t/s	S	O	0	60 gulls on shoreline	T	Unsanitary-heavy acculuation of droppings	866	Perm. Posted		TKS	
Main Beach	19-Aug	KA	14	17	0	missing	0.0	11	t/s			O	0	0	T	Sanitary	903	Perm. Posted		TKS	
Main Beach	25-Aug	TKS	21	19	0	0.0	M	2	SW	Nil	Nil	M	0	4 gulls, 10 geese	T	Sanitary	226	Perm. Posted		TKS	
Main Beach	27-Aug	TKS	15	16	0	0.0	3.4	7	W	Nil	Nil	M	0	0	C	Sanitary	87	Perm. Posted		TKS	

Notes: Beach season officially began June 27-end of Aug 31 (66 days)

2014 Beach Season

Summary of 2014 City Beaches

Beach	# times sampled	# adverse	Percent of adverse samples	# days posted	# days open	Percent of time open	Percent of time posted
Boulevard-Main (Lakeview)	14	4	29	8	58	88	12
Chippewa-Main Beach	9	4	44	66	0	0	100
Chippewa-Sandy Beach	11	2	18	8	58	88	12
NOTES:							
1) Boulevard/Chippewa beach season officially began on June 27, ended on August 31 (66 days)							
2) Chippewa Main Beach was permanently posted based on historical results for the duration of the 2014 beach season							
3) Swimming advisories are issued when the geometric mean consisting of min. 5 samples are calculated to exceed 100 E. coli/100 ml of sample							

2015 Beach Season

- End of 2014, MOHLTC released Recreation Water Protocol, 2014
 - **New definition of a public beach**
 - Public Beaches include any public bathing area owned/operated by a municipality to which the general public has access, and where there is reason to believe that there is recreational use of the water (e.g., beach signage, sectioned off swimming area, water safety/equipment, lifeguard chairs, etc.), which may result in waterborne illness or injury as determined by the local medical officer of health.



2015 Beach Season

- 4 city locations
 - **Removed Boulevard (Sandy Cove from inventory)**
 - **18 district locations**

2015 Beach Season-Boulevard (Main)

BEACH	Date (d/m)	Person Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)	Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted	# days posted	Data entered by:
Main	22-Jun	KA	11	17	0	0.2	14.0	12	E	t/s	Nil	O	0	0	T	Good	48				TKS
Main	29-Jun	TKS	17	21	0	0	0.8	5	W	Nil	Nil	M	0	7 geese	C	Unsanitary-piles of goose droppings	17				TKS
Main	6-Jul	KA	17	21	L	4.1	4.3	4	S	Nil	Nil	O	0	0	C	Unsanitary-piles of goose droppings	107	Posted	07-Jul	TKS	
Main	8-Jul	TKS	16	20	0	0	0.6	2	N	Nil	Nil	S	0	0	C	Minor droppings on beach	39	Lifted	09-Jul	2	TKS
Main	13-Jul	TKS	18	23	L	1.6	1.8	8	W	Nil	Nil	O	0	0	C	Sanitary	108	Posted	14-Jul	TKS	
Main	16-Jul	TKS	13	21	0	0.2	0.5	12	E	Nil	Nil	S	0	12 gulls on dock	C	Sanitary	65	Lifted	17-Jul	3	TKS
Main	20-Jul	KA	21	22	0	0	0.0	28	NE	t/s	M	S	0	0	C	Sanitary	36				TKS
Main	27-Jul	KA	23	27	0	0	0.3	4	W	t/s	Nil	S	0	0	C	Sanitary	20				TKS
Main	4-Aug	TKS	15	21	0	2.5	M	8	NW	Nil	Nil	O	0	40 geese, 20 gulls	C	Large accumulation of goose droppings left side of beach	67				TKS
Main	10-Aug	KA	23	23	0	0	0.4	10	WNW	t/s	Nil	O	0	0	C	Unsanitary-piles of goose droppings	36				TKS
Main	17-Aug	KA	18	23	0	1.7	1.7	9	W	t/s	Nil	O	0	0	C	Unsanitary-piles of goose droppings	110	Posted	18-Aug	TKS	
Main	18-Aug	KA	21	23	0	0	1.7	18	E	t/s	Nil	S	0	0	C	Unsanitary-piles of goose droppings	770				TKS
Main	24-Aug	KA	11	17	0	7.2	7.2	28	WNW	t/s	Nil	O	0	35 gulls	C	Unsanitary-piles of goose droppings	440				TKS
Main	25-Aug	KA	13	15	0	0.5	7.7	14	NW	t/s	Nil	O	0	0	C	Unsanitary-piles of goose droppings	176			14	TKS
																		Days posted		19	

Notes: Beach season June 26-Aug 31 (67 days)

2015 Beach Season-Boulevard (Sunny Side)

BEACH	Date (d/m)	Person Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)/Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted # days posted	Data entered by:
Sunny Side	22-Jun	KA	11	17	0	0.2	14.0	12 E	t/s	Nil	O	0	0	T	Good	73			TKS
Sunny Side	29-Jun	TS	17	21	0	0	0.8	5 W	Nil	Nil	M	0	0	C	Unsanitary-piles of goose droppings	14			TKS
Sunny Side	6-Jul	KA	17	21	L	4.1	4.3	4 S	Nil	Nil	O	0	0	C	Large amount of goose droppings	46			TKS
Sunny Side	13-Jul	TKS	18	22	0	1.6	1.8	8 W	Nil	Nil	O	0	0	C	Large accumulation of goose droppings	897	Posted	14-Jul	TKS
Sunny Side	16-Jul	TKS	13	21	0	0.2	0.5	12 E	Nil	Nil	O	0	40 geese in area	C	Large accumulation of goose droppings in grassy area and visible in water	324			TKS
Sunny Side	20-Jul	KA	21	22	0	0	0.0	28 NE	t/s	M	S	0	0	C	Sanitary	434			TKS
Sunny Side	27-Jul	KA	23	27	0	0	0.3	4 W	t/s	Nil	S	0	0	C	Large accumulation of goose droppings in grassy area and visible in water	677			TKS
Sunny Side	4-Aug	TKS	15	20	0	2.5	M	8 NW	Nil	Nil	O	0	1 gull	C	Large accumulation of goose droppings	272			TKS
Sunny Side	10-Aug	KA	24	23	0	0	0.4	10 WNW	t/s	Nil	O	0	30 geese	C	Unsanitary-piles of goose droppings	199			TKS
Sunny Side	17-Aug	KA	18	23	0	1.7	1.7	9 W	t/s	Nil	O	0	43 geese	C	Unsanitary-piles of goose droppings	326			TKS
Sunny Side	24-Aug	KA	11	17	0	7.2	7.2	28 WNW	t/s	Nil	O	0	0	C	Unsanitary-piles of goose droppings	298			49 TKS
																	Days posted	49	
Notes: Beach season June 26-Aug 31 (67 days)																			

2015 Beach Season-Chippewa (Sandy)

BEACH	Date (d/m)	Person Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)/Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted	# days posted	Data entered by:
Sandy Beach	22-Jun	TKS 11	11	0	0.2	14.0	14 E	t/s	M	O	0	0	T	Sanitary	47					TKS
Sandy Beach	29-Jun	TKS 19	15	0	0	0.8	5 W	t/s	Nil	M	0	0	C	Sanitary	10					TKS
Sandy Beach	6-Jul	TKS 17	14	L	4.1	4.3	7 W	Nil	Nil	O	0	1 goose	C	No droppings, garbage present	12					TKS
Sandy Beach	13-Jul	TKS 18	15	L	1.6	1.8	8 W	Nil	Nil	O	0	0	C	Sanitary	44					TKS
Sandy Beach	20-Jul	TKS 21	13	0	0	0.0	28 W	t/s	Nil	M	0	0	C	Sanitary	10					TKS
Sandy Beach	27-Jul	TKS 25	20	0	0	0.3	t/s	Nil	S	S	0	0	C	Sanitary	14					TKS
Sandy Beach	4-Aug	TKS 15	15	0	2.5	M	8 NW	Nil	Nil	M	0	0	C	Sanitary	13					TKS
Sandy Beach	10-Aug	KA 22	15	0	0	0.4	10 WNW	t/s	Nil	M	0	0	C	Sanitary	11					TKS
Sandy Beach	17-Aug	TKS 18	14	0	1.7	1.7	10 W	Nil	Nil	O	0	0	C	Sanitary	23					TKS
Sandy Beach	24-Aug	TKS 12	9	0	7.2	7.2	30 NW	t/s	Nil	O	0	4 geese	C	Sanitary	10					TKS
																		Days posted	0	
Notes:	Beach season June 26-Aug 31 (67 days)																			

2015 Beach Season-Chippewa (Main)

BEACH	Date (d/m)	Person Sampling	Temperature (°C)	Water Temperature (°C)	Rainfall During Sampling (mm)	Rainfall Within 24 hours (mm)	Rainfall Within 48 hours (mm)	Wind Speed (km)/Direction	Wave Direction	Wave Action	Sunlight	Bather Density	Water Fowl	Water Clarity	Beach Condition	G. Mean	Action Taken	Date Posted/Lifted	# days posted	Data entered by:
Main Beach	22-Jun	TKS 11	15	0	0.2	14.0	14 E	t/s	Nil	O	0	0	C	Sanitary	49				TKS	
Main Beach	29-Jun	TKS 19	15	0	0	0.8	5 W	Nil	Nil	M	0	0	C	Sanitary	12				TKS	
Main Beach	6-Jul	TKS 17	14	L	4.1	4.3	7 W	Nil	Nil	O	0	12 geese	C	Sanitary	19				TKS	
Main Beach	13-Jul	TKS 18	17	0	1.6	1.8	8 W	Nil	Nil	O	0	0	C	Sanitary	20				TKS	
Main Beach	20-Jul	TKS 21	16	0	0	0.0	28 W	p/s	Nil	M	0	0	C	Sanitary	19				TKS	
Main Beach	27-Jul	TKS 25	20	0	0	0.3	4 W	Nil	Nil	S	0	20 geese, 1 gull	C	Minor amount of goose droppings on beach	10				TKS	
Main Beach	4-Aug	TKS 15	15	0	2.5	M	8 NW	Nil	Nil	M	0	20 geese	C	Sanitary	44				TKS	
Main Beach	10-Aug	KA 22	17	0	0	0.4	10 WNW	t/s	Nil	M	0	22 geese	C	Sanitary	14				TKS	
Main Beach	17-Aug	TKS 18	12	0	1.7	1.7	10 W	Nil	Nil	O	0	0	C	Sanitary	15				TKS	
Main Beach	24-Aug	TKS 12	10	0	7.2	7.2	30 NW	t/s	Nil	O	0	3 gulls	C	Minor amount of goose droppings on beach	115	Posted	25-Aug		TKS	
Main Beach	25-Aug	TKS 16	11	0	0.5	7.7	18 NW	t/s	Nil	O	0	0	C	Sanitary	61	Lifted	26-Aug	1	TKS	
																Days posted		1		

Notes: Beach season June 26-Aug 31 (67 days)

2015 Beach Season

Summary of 2015 City Beaches

Beach	# times sampled	# adverse	Percent of adverse samples	# days posted	# days open	Percent of time open	Percent of time posted
Boulevard-Main (Lakeview)	14	6	43	19	48	72	28
Boulevard-Sunnyside	11	8	73	49	18	27	73
Chippewa-Main	11	1	9	1	66	99	1
Chippewa-Sandy Beach	10	0	0	0	67	100	0

NOTES:

1) Boulevard/Chippewa beach season officially began June 26-Aug 31 (67 days)

2) Swimming advisories are issued when the geometric mean consisting of min. 5 samples are calculated to exceed 100 E. coli/100 ml of sample

2005-2015 beach summaries

City Beaches Days Posted					
2005-2015					
	Boulevard			Chippewa	
Year	Main	Sandy Cove	Sunny Side	Main	Sandy
2005	25	13	26	7	0
2006	15	8	21	31	0
2007	20	7	19	21	7
2008	12	4	18	19	0
2009	14	8	21	24	0
2010	27	26	59	47	0
2011	9	0	15	44	0
2012	18	9	12	37	5
2013	8	10	25	39	2
2014	8			*66	8
2015	19		49	1	0
Total	175	85	216	270	22

* Permanently posted with a swimming advisory

Thank You!



Thunder Bay District
Health Unit