MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER RESOURCES DIVISION FEBRUARY 2011

STAFF REPORT

MICHIGAN BEACH MONITORING YEAR 2010 ANNUAL REPORT

INTRODUCTION

The Michigan Department of Environmental Quality (MDEQ), Surface Water Quality Monitoring Program, is summarized in the January 1997 report entitled, "A Strategic Environmental Quality Monitoring Program for Michigan's Surface Waters" (Strategy) (MDEQ, 1997). The objectives of the beach monitoring component of the Strategy are listed below:

- 1. Assist local health departments to implement and strengthen beach monitoring programs.
- 2. Determine whether waters of the state are safe for total body contact recreation.
- 3. Create and maintain a statewide database.
- 4. Compile data to determine overall water quality.
- 5. Evaluate the effectiveness of MDEQ programs in attaining Water Quality Standards (WQS) for pathogen indicators.
- 1. ASSIST LOCAL HEALTH DEPARTMENTS TO IMPLEMENT AND STRENGTHEN BEACH MONITORING PROGRAMS

Beach Monitoring

The monitoring of beaches in Michigan is voluntary and is conducted by the local health departments. Health departments are required to comply with Michigan's WQS according to R 333.12544 of the Public Health Code, 1978 PA 368 (Act 368), as amended. According to R 333.12541 of Act 368, a local health officer or an authorized representative of a local health department that conducts tests at bathing beaches is required to notify the MDEQ and other entities of the test results within 36 hours of conducting a test or evaluation. This rule also states that the local health department may petition the circuit court for an injunction ordering the owners of a beach to close the beach. Owners of public bathing beaches must post a sign that states whether or not the bathing beach has been tested, and if so, the location of the test results.

The MDEQ awards grants to local health departments to monitor and report levels of *E. coli* in the swimming areas of public beaches. In selecting recipients for grant awards, the MDEQ considers all of the following:

- Location and frequency of beach use.
- History of beach monitoring and bacterial contamination.
- Ability to communicate results to the public in an efficient manner.
- Ability to respond and take appropriate action in the event of beach contamination.
- Proximity of beach to a known bacterial contamination source.
- Innovativeness and feasibility of proposed project.
- Ability to reduce time delay between sampling and results.

The availability of grant funds has increased the number of counties where beaches are monitored. Less than 50 beaches were monitored with local funding in 25 counties in 2000. With consistent grant funding, over 400 beaches have been monitored in at least 50 counties for the past 6 years as shown in Table 1.

Table 1. The number of counties where at least one beach was monitored and the total number of beaches that were monitored each year.

Year	2005	2006	2007	2008	2009	2010
Number of Counties that Monitored	52	58	57	57	57	59
Number of Beaches Monitored	406	440	474	467	414	430

Funding for Beach Monitoring

Prior to 2000, health departments relied on local funding to conduct beach monitoring programs. Local funding was often not sufficient to execute a comprehensive state-wide monitoring program. Beginning in 2000, funding became available from the Clean Michigan Initiative-Clean Water Fund (CMI-CWF). In 2003, the United States Environmental Protection Agency (USEPA) also began awarding funds from the Beaches Environmental Assessment and Coastal Health Act (BEACH Act) for monitoring Great Lakes beaches.

CMI-CWF Grants

The MDEQ currently distributes CMI-CWF funds to aid in the development and implementation of inland lake beach monitoring programs throughout the state. In 2000 and 2001, CMI-CWF funds were distributed for inland lakes and Great Lakes beach monitoring programs. In 2002, no CMI-CWF funds were distributed, but future funding was designated for inland beaches only due to the availability of BEACH Act funding for Great Lakes beaches.

The CMI-CWF grant funds are awarded by the MDEQ to local health departments and nonprofit entities, which include county, city, township, and village agencies, watershed and environmental action councils, universities, regional planning agencies, and incorporated nonprofit organizations. The majority of grants are awarded to local health departments. If a group other than a local health department is awarded a grant, the MDEQ requires the group to work closely with their local health department.

The CMI-CWF offers reliable funding for the monitoring of surface water over a period of approximately 15 years. Since 2000, the MDEQ has awarded \$1,122,267 including 14 awards totaling \$187,424 for monitoring beaches in 2009 and 2010. A list of the most recent grant awards is shown in Appendix A.

BEACH Act Grants

The MDEQ distributes BEACH Act funds to aid in the development and implementation of Great Lakes beach monitoring programs. State, local, and tribal governments having coastal waters are eligible to apply for the BEACH Act grants. The USEPA (2002) has published performance criteria that must be met by grant recipients. Since the BEACH Act was initiated in 2003, the MDEQ has allocated \$2,130,345 including 24 awards totaling \$204,807 in 2010 (the MDEQ also provided \$160,000 of state funds in 2009). A list of the most recent grant awards is shown in Appendix B.

2. DETERMINE WHETHER WATERS OF THE STATE ARE SAFE FOR TOTAL BODY CONTACT RECREATION

Pathogens

Pathogens are microorganisms (bacteria, protozoans, or viruses) that cause disease. Most waterborne pathogens are readily found in the feces of humans and other warm-blooded animals. Gastroenteritis is the most common illness associated with swimming in contaminated water although other illnesses can occur. The severity of the disease or illness depends on the amount of exposure and the type of pathogen (Appendix C) (USEPA, 2001). The USEPA (1986 and 2002) has determined that *E. coli* and *Enterococci* are appropriate indicators for the presence of waterborne pathogens in fresh water.

Sources of Bacterial Contamination

Combined Sewer Overflows (CSOs) are discharges of raw or inadequately treated sewage from sewer systems that are designed to carry both domestic sewage and storm water to wastewater treatment plants (WWTPs). When a storm event occurs and the volume of the wastewater is larger than the WWTP can process, the excess untreated sewage and storm water are discharged into local waterways.

Sanitary Sewer Overflows (SSOs) are discharges of raw or inadequately treated sewage from municipal sanitary sewer systems, which are designed to carry domestic sanitary sewage but not storm water. Systems that contain cracks, obstructions, storm water connections, or that are undersized with sewers and pumps too small to carry all the sewage may leak or overflow raw sewage from manholes, bypass pump stations, and WWTPs into the surrounding waters, particularly during extreme hydrologic events.

Failing septic systems can cause leaching and/or runoff into the waterways, causing bacterial contamination. Urban storm water runoff from roads, roofs, construction sites, parking lots, etc., may contain fecal matter from pets and wildlife. Excessive waterfowl near the beaches and animal waste runoff from farms and fields can contribute to elevated bacterial levels. Illicit connections of pipes containing sewage to storm sewers or surface waters are also a potential source of bacterial contamination.

E. coli Standard

The MDEQ requires beaches to be monitored according to the Part 4 rules, WQS, promulgated under Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, as follows:

R 323.1062 Microorganisms

Rule 62(1): All waters of the state protected for total body contact recreation shall not contain more than 130 *E. coli* per 100 milliliters (ml), as a 30-day geometric mean. Compliance shall be based on the geometric mean of all individual samples taken during 5 or more sampling events representatively spread over a 30-day period. Each sampling event shall consist of 3 or more samples taken at representative locations within a defined sampling area. At no time shall the waters of the state protected for total body contact recreation contain more than a maximum of 300 *E. coli* per 100 ml. Compliance shall be based on the geometric mean of 3 or more samples taken during the same sampling event at representative locations within a defined sampling area.

All surface waters of the state are protected for total body contact according to the Part 4 rules, as follows:

R 323.1100 Designated Uses

Rule 100(2): All surface waters of the state are designated and protected for total body contact recreation from May 1 to October 31 in accordance with the provisions of R 323.1062. Total body contact recreation immediately downstream of wastewater discharges, areas of significant urban runoff, CSOs, and areas influenced by certain agricultural practices is contrary to prudent public health and safety practices, even though WQS may be met.

Beach Notification Data

Beach notification data are the actions taken at a beach to warn the public of unsafe water conditions. A beach advisory or closure (collectively referred to as an action) may be issued due to riptides, spills, harmful algal blooms, an *E. coli* result that exceeded WQS, or other potential threats to public health. Advisories or closures are most commonly issued because of elevated counts of *E. coli* in water samples collected from the shoreline of a water body. Health departments use the daily and the 30-day geometric mean to determine if a beach closure or an advisory should be issued. The health department notifies the owner of the beach when a beach should be closed. If necessary, the health department can petition the court for an injunction to force the owner to close the beach. The beach closure or advisory remains in effect until additional tests meet the WQS.

3. CREATE AND MAINTAIN A STATEWIDE DATABASE

The MDEQ developed a centralized statewide database, BeachGuard, which includes bathing beach monitoring *E. coli* test results and notification data. These data are available electronically to the public via the MDEQ's Web site (https://www.egle.state.mi.us/beach/). The Web site includes information about individual beaches (by county or lake name), frequency of testing, monitoring history, beach closures, and monitoring efforts. The Web site also provides search tools, options for data export, information for beach monitoring procedures and methods, additional links to beach monitoring resources, and contact information for federal, state, and local beach monitoring staff.

Reporting Beach Monitoring and Notification Data

According to R 333.12541(2), all local health departments are required to report their beach monitoring test results to the MDEQ within 36 hours of conducting the test or evaluation. Health departments receiving beach monitoring grants are required to enter their data on the MDEQ's Web site, while other health departments are encouraged to report their data on the Web site.

As a requirement of the BEACH Act, the MDEQ submits beach monitoring data to the USEPA. The USEPA has created several Web pages for beach information that can be found at https://www.epa.gov/beaches/, along with an online directory of information regarding the water quality at our nation's beaches entitled, "Beach Advisory Closing Online Notification," that can be found at https://www.epa.gov/waterdata/beacon-20-beach-advisory-and-closing-online-notification.

4. COMPILE DATA TO DETERMINE OVERALL WATER QUALITY

List of Beaches

Michigan beaches identified by local health departments and the MDEQ are listed in Appendices D.1 (inland lakes-monitored), D.2 (inland lakes-not monitored), E.1 (Great Lakes-monitored), and E.2 (Great Lakes-not monitored). They are also listed on the MDEQ's beach Web site. The beaches are arranged alphabetically by county, then water body, then location (site name). There are 573 identified public beaches on inland lakes and rivers and 609 identified public beaches on the Great Lakes.

Synopsis of Data

Monitoring and notification data reported for beaches included results of *E. coli* tests and the number of advisories or closures (actions) that were posted and the number of days for each posting. In 2010, monitoring was conducted at 430 (206 inland and 224 Great Lakes) public beaches in 59 Michigan counties. Local beach managers collected 5,194 daily water samples and 209 (4.0 percent) exceeded Michigan's WQS (Appendix F).

Exceedances were reported at 108 beaches (25 percent of all monitored beaches) resulting in 103 of those beaches posting 152 advisories or closures lasting a total of 1,003 days. The number of beaches with exceedances differed from the number of beaches with actions due to any of the following reasons: (1) water samples were tested before or after the swimming season; (2) delays in receiving test results; (3) a second test (follow-up sample) was used to confirm an exceedance; or (4) preemptive closures or advisories were issued. Table 2 shows an increase in the number and percent of beaches with exceedances in comparison to previous years. The number and percent of samples exceeding WQS in 2010 were similar to 2009, but were higher than the previous years (Table 2).

Table 2. Monitoring data for all public beaches in Michigan, including percent of beaches with exceedances and percent of samples exceeding WQS.

Year	2005	2006	2007	2008	2009	2010
Number of Beaches with Exceedances	77	99	77	75	83	108
Percent of Beaches with Exceedances	19	22.5	16.2	15.8	20	25
Number of Samples Exceeding WQS	130	200	145	154	212	209
Percent of Samples Exceeding WQS	2.8	3.6	2.6	2.8	3.6	4.0

Notification data in 2010 showed an increase in the number and percentage of beaches with an action and in the number of actions (Figure 1 and Table 3). However, the total number of days with actions decreased (Table 3).

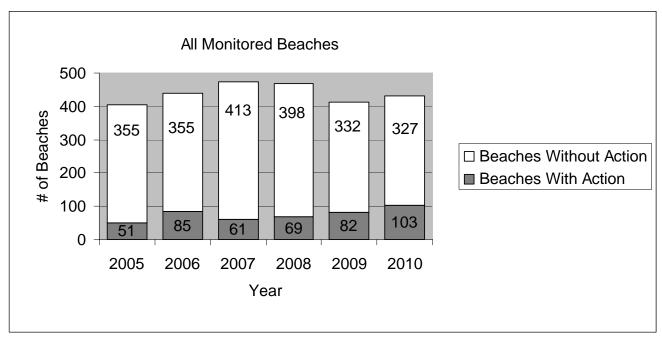


Figure 1. Each bar represents the total number of monitored beaches with divisions designating beaches with and without an action.

Table 3. Monitoring data for all public beaches in Michigan including the total number of actions, percent of beaches with an action, and total number of days with an action.

Year	2005	2006	2007	2008	2009	2010
Actions	80	110	89	108	125	152
Percent of Monitored Beaches with an Action	19	18.4	12.9	14.8	19.8	24.3
Total Days with an Action	474	886	1,568	697	1,596	1,003

Synopsis of Data from Great Lakes Beaches

In 2010, monitoring was conducted at 224 Great Lakes public beaches in 38 counties in Michigan. Out of 3,002 daily samples collected, 147 (4.9 percent) exceeded Michigan's WQS (Appendix F). The exceedances were reported from 66 beaches (29 percent of monitored Great Lakes beaches), 60 (27 percent) of which reported actions (100 incidents lasting a total of 638 days). A summary of the exceedances of the *E. coli* WQS for Great Lakes beaches is provided in Table 4. Figure 2 shows that the number of monitored Great Lakes beaches has stayed about the same, but the number of beaches with an action has increased.

Table 4. Number of exceedances and actions for Great Lakes beaches monitored in 2010.

a. Number of Exceedances Reported per Beach	b. Number of Beaches with Exceedence(s)	Total Number of Exceedances (a x b)	c. Number of Actions per Beach	d. Number of Beaches with Actions	Total Number of Actions (c x d)
1	37	37	1	38	38
2	17	34	2	14	28
3	4	12	3	4	12
4	1	4	4	1	4
5	1	5	5	2	10
6	1	6	8	1	8
7	2	14			0
10	2	20			0
15	1	15			0
TOTAL	66	147		60	100

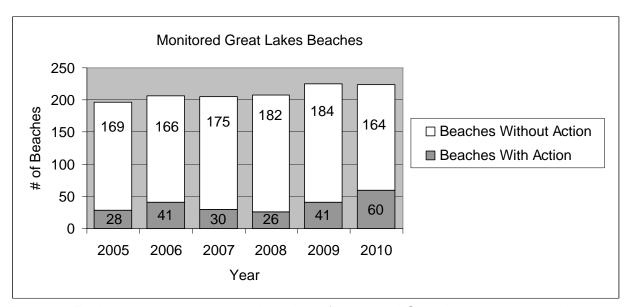


Figure 2. Each bar represents the total number of monitored Great Lakes beaches with divisions designating beaches with and without an action.

A summary of the 2010 beach monitoring and notification data for each of the Great Lakes, Lake St. Clair, and connecting channels is provided in Table 5. A summary of sources of contamination reported for actions in the Great Lakes, Lake St. Clair, and connecting channels is provided in Table 6.

Table 5. Number of public beaches and actions for the Great Lakes, Lake St. Clair, and connecting channels.

Water	Number of	Number of	Number of	Number of	Total Number
Body	Public	Beaches that	Beaches with	Beach Actions	of Days with
	Beaches	were	an Action		Actions
		Monitored			
Lake Erie	4	4	2	3	27
Lake	164	68	30	46	190
Huron	104	00	30	40	190
Lake	304	120	19	25	71
Michigan	304	120	13	20	7 1
Lake	118	21	3	9	42
Superior	110	21	J	9	72
Lake St.	5	5	4	9	219
Clair	0	J	7	9	210
Great					
Lakes	14	6	3	8	89
Connecting	'-				00
Channels					
TOTAL	609	224	61	100	638

Table 6. Contamination sources reported for advisories and closures, days affected, and the number of beaches for the Great Lakes, Lake St. Clair, and connecting channels for the specific cause of the beach action.

Contamination Source	Number of Actions	Number of Days	Number of Beaches
	with Reporting Source	Affected by Source	Reporting Source
		·	
Wildlife	1	1	1
Agriculture	1	7	1
Storm	18	78	12
Runoff	3	12	1
CSO	1	60	1
SSO	2	6	2
Other	5	111	5
Unknown	69	363	44
TOTAL	100	638	67*

^{*}Total includes four beaches that reported closures caused by two sources and one beach that reported closures caused by four sources.

Synopsis of Data from Inland Beaches

In 2010, monitoring was conducted at 206 inland lake public beaches in 42 counties in Michigan. Out of 2,192 daily samples collected, 62 (3 percent) exceeded Michigan's WQS (Appendix F). The exceedances were reported from 42 beaches (20 percent of monitored inland beaches) and 43 beaches (21 percent) reported actions (52 incidents lasting a total of 365 days).

A summary of the exceedances of the *E. coli* WQS for inland beaches is provided in Table 7. Figure 3 shows that the number of monitored inland beaches varies, but the number of beaches with an action is similar over the last few years. A summary of sources of contamination reported for beach actions for inland lakes is provided in Table 8.

Table 7. Number of exceedances and actions for inland beaches monitored in 2010.

a. Number of	b. Number of	Total	c. Number of	d. Number of	Total
Exceedances	Beaches with	Number of	Actions per	Beaches with	Number of
Reported per	Exceedance(s)	Exceedances	Beach	Actions	Actions
Beach		(a x b)			(c x d)
1	30	30	1	34	34
2	6	12	2	9	18
3	4	12			
4	2	8			
TOTAL	42	62		43	52

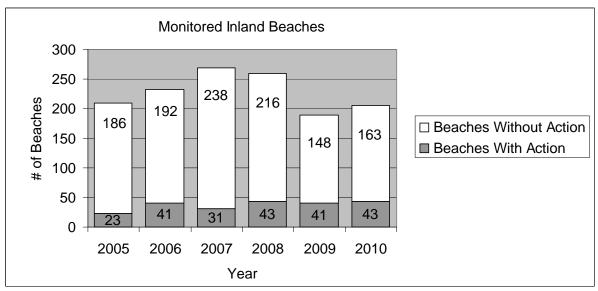


Figure 3. Each bar represents the total number of monitored inland beaches with divisions designating beaches with and without an action.

Table 8. Contamination sources reported for actions, days affected, and the number of beaches

reporting the specific cause of an action for inland lakes.

Contamination	Number of Actions	Number of Days	Number of Beaches
Source	Reporting Source	Affected by Source	Reporting Source
Wildlife	7	9	6
Agriculture	1	1	1
Storm	3	4	2
Runoff	2	3	2
CSO	0	0	0
SSO	0	0	0
Other	0	0	0
Unknown	39	348	32
TOTAL	52	365	43

5. EVALUATE THE EFFECTIVENESS OF MDEQ PROGRAMS IN ATTAINING WQS FOR PATHOGEN INDICATORS

Beach Water Quality Data that do not Meet WQS

Water quality protection continues to be a great concern in Michigan and depends on the collective efforts of multiple pollution prevention programs. As part of the beach monitoring program, health departments and the MDEQ routinely review beach water quality data. This information is used in federal, state, and local pollution prevention programs to determine which water bodies are not meeting WQS and to help identify sources of pollution that affect beach water quality.

Section 303(d) of the federal Clean Water Act and the USEPA's Water Quality Planning and Management Regulations (Title 40 of the Code of Federal Regulations, Part 130) require states to develop Total Maximum Daily Loads (TMDLs) for water bodies that are not meeting WQS. The TMDL process establishes the allowable loadings of pollutants to a water body based on the relationship between pollution sources and water quality conditions. TMDLs provide a basis for determining the pollutant reductions necessary from both point and nonpoint sources to restore and maintain the quality of the water resources.

Waters associated with public beaches are considered to not be attaining WQS when *E. coli* monitoring data collected by county health departments during the total body contact recreation season of May 1 to October 31 (as described by R 323.1100(2)) meet one or more of the following decision elements:

- *E. coli* concentrations exceed the geometric mean WQS of 130 *E. coli* per 100 ml based on weekly samples collected over a minimum of 16 weeks.
- Ten percent of the sample results exceed the daily maximum WQS of 300 *E. coli* per 100 ml based on weekly samples collected over a minimum of 16 weeks.
- Two or more sample results collected at any time during the total body contact recreation season of May 1 to October 31 exceed the partial body WQS of 1,000 E. coli per 100 ml.

The water bodies that exceed WQS and require a TMDL are placed on the Section 303(d) list and TMDL development schedule. A water body is not placed on the TMDL development

schedule if a remedial action plan is already in place. The beaches that exceed WQS per the decision elements are listed on the Section 303(d) list, which is available in the most recent "Water Quality and Pollution Control in Michigan Sections 303(d), 305(b), and 314 Integrated Report."

Prepared by: Caroline Keson

Shannon Briggs

Surface Water Assessment Section

Water Resources Division

REFERENCES

- MDEQ. 1997. A Strategic Environmental Quality Monitoring Program for Michigan's Surface Waters. Michigan Department of Natural Resources and Environment. Staff Report #MI/DEQ/SWQ-96/152. January 1997.
- USEPA. 1986. Ambient Water Quality Criteria for Bacteria-1986. EPA 440/5-84/002.
- USEPA. 2001. Protocol for Developing Pathogen TMDLs. January 2001. EPA 84/R-00-002.
- USEPA. 2002. National Beach Guidance and Required Performance Criteria for Grants. EPA-823-B-02-004.

2009-2010 CMI-CWF Grantees	Requested Budget Amount	Granted Amount	Total Monitored Beaches
Barry-Eaton District Health Department	\$21,368	\$8,030	4
Central Michigan District Health Department	\$27,028	\$22,424	23
Chippewa County Health Department	\$22,524	\$9,545	6
District Health Department #2	\$63,199	\$24,697	26
District Health Department #4	\$14,477	\$10,303	7
Genesee County Health Department	\$62,915	\$17,121	16
Luce-Mackinaw-Alger-Schoolcraft District Health Department	\$17,397	\$12,576	4
Macomb County Health Department	\$23,677	\$6,515	2
Muskegon County Health Department	\$23,239	\$16,364	15
Northwest Michigan Community Health Agency	\$21,030	\$19,394	19
Ottawa County Health Department	\$17,629	\$11,061	8
Wayne County Health Department	\$12,273	\$10,303	7
Western Upper Peninsula District Health Department	\$13,348	\$9,545	6
Wexford County Drain Commission	\$14,798	\$9,545	6
TOTAL	\$354,902	\$187,424	149

Appendix B. 2010 BEACH Act Grants for Great Lakes Beaches.

Local Health Department	Allocated Amount	Total Monitored Beaches
Allegan County Health Department	\$5,064	4
Bay County Health Department	\$5,705	5
Berrien County Health Department	\$11,474	14
Central Michigan District Health Department	\$9,551	11
Chippewa County Health Department	\$8,269	9
Delta-Menominee District Health Department	\$5,064	4
Detroit, City of	\$2,505	1
District Health Department #2	\$8,269	9
District Health Department #4	\$10,192	12
District Health Department #10	\$16,602	22
Huron County Health Department	\$10,833	13
Luce-Mackinac-Alger-Schoolcraft District Health Department	\$5,064	4
Macomb County Health Department	\$5,064	4
Marquette (city of Marquette)	\$5,705	5
Monroe County Health Department	\$5,064	4
Muskegon County Health Department	\$10,192	12
Northwest Michigan Community Health Agency	\$24,294	34
Ottawa County Health Department	\$8,269	9
St. Clair County Health Department	\$12,115	15
Sanilac County Health Department	\$5,705	5
Van Buren/Cass District Health Department	\$5,064	4
Watershed Center (Grand Traverse & Benzie-Leelanau)	\$10,769	9
Wayne County Health Department	\$3,782	2
Western Upper Peninsula District Health Department	\$10,192	12
Total	\$204,807	223

Appendix C. Waterborne Pathogens

Pathogen		Disease	Effects
Bacteria	Escherichia coli (enteropathogenic)	Gastroenteritis	Vomiting, diarrhea, death in susceptible populations
	Helicobacter pylori	Gastritis	Diarrhea. Peptic ulcers are a long-term sequela
	Legionella pneumophila	Legionellosis	Acute respiratory illness
	Leptospira	Leptospirosis	Jaundice, fever
	Pseudomonas	Infections in immunocompromised individuals	Urinary tract infections, respiratory system infections, dermatitis, soft tissue infections, bacteremia, and a variety of systemic infections
	Salmonella typhi	Typhoid fever	High fever, diarrhea, ulceration of the small intestine
	Salmonella	Salmonellosis	Diarrhea, dehydration
	Shigella		Bacterial dysentery
	Vibrio cholera	Cholera	Extremely heavy diarrhea, dehydration
	Yersinia enterolitica	Yersinosis	Diarrhea
Protozoans	Balantidium coli	Balantidiasis	Diarrhea, dysentery
	Cryptosporidium	Cryptosporidiosis	Diarrhea
	Entamoeba histolytica	Ameobiasis (amoebic dysentery)	Prolonged diarrhea with bleeding, abscesses of the liver and small intestine
	Giardia lamblia	Giardiasis	Mild to severe diarrhea, nausea, indigestion
	Naegleria fowleri	Amoebic meningoencephalitis	Fatal disease; inflammation of the brain
Viruses	Adenovirus (31 types)	Respiratory disease	Eye infections, diarrhea
	Astroviruses	Gastroenteritis	Vomiting, diarrhea
	Enteroviruses (67 types, e.g., polio, echo, and Coxsackie viruses)	Gastroenteritis	Diarrhea. Heart anomalies and meningitis are long-term sequela and are very rare
	Hepatitis A and E	Infectious hepatitis	Jaundice, fever
	Caliciviruses (Norwalk- and Sapporo-like viruses)	Gastroenteritis	Vomiting, diarrhea
	Reovirus	Gastroenteritis	Vomiting, diarrhea
	Rotavirus	Gastroenteritis	Vomiting, diarrhea

Source: USEPA, 2001

	County	Water Body	Location
1			1 Alcona Park East Campground
			2 Village of Lincoln Park
			3 Caledonia Township Park
·	7 1100110	i rassara zanto	o o aloue illustration il ann
4	Alpena	Beaver Lake	1 Beaver Lake Park
			2 Lake Avalon Public Access
·	, upona	Zano / tvalon	
6	Antrim	Central Lake	1 Thurston Park
			2 Wooden Shoe Park
			3 Richardi Park
			4 Day Park
·			, - s, - s - s
10	Arenac	Oasis Lake	1 Oasis Lake County Park
. •			
11	Barry	Gun Lake	1 Main Beach - Day Use Area
		<u> </u>	2 Yankee Springs Recreation Area Campground Beach
	•		3 Charlton Park
. •	,		
14	Bav	Kawkawlin River	1 Boat Launch on Kawkawlin River
		Saginaw River	2 Vet's Park North Bay City
	•	•	3 Vet's Park South River Rd.
. •	,		
17	Benzie	Otter Creek	1 Sleeping Bear Dunes-Otter Creek
			and a supplied and a
18	Charlevoix	Thumb Lake	1 Thumb Lake Beach
			2 Melrose Township Park
20	Chippewa	Dukes Lake	1 Dukes Lake
			2 Kinross Lake
			3 Monocle Lake
23	Clare	Bertha Lake	1 Bertha Lake Beach
		Budd Lake	2 Wilson Lake State Park
25	Clare	Shingle Lake	3 Shingle Lake Park
		Silver Lake	4 Silver Lake Park
27	Crawford	Higgins Lake	1 North Higgins State Park
		Fox Memorial Park	
28	Eaton	Beach	1 Fox Memorial Park
29	Emmet	Crooked Lake	1 Little Traverse Township Beach
		Larks Lake	2 Pioneer Picnic Park
31	Emmet	Pickerel Lake	3 Camp Petosega
32	Emmet	Pickerel Lake	4 Channel Beach
33	Emmet	Walloon Lake	5 Resort Pike Road Beach
34	Genesee	Byram Lake	1 Clover Beach
35	Genesee	Copneconic Lake	2 Camp Copneconic
36	Genesee	Copneconic Lake	3 Copneconic Day Beach
37	Genesee	Covenant Hill Camp	4 Covenant Hill Camp
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 12 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Alcona Alcona Alcona Alcona Alcona Alcona Alcona Alpena Alpena Antrim Antrim Antrim Antrim Antrim Antrim Barry Barry Barry Barry Barry Bay Bay Abay Charlevoix Chippewa Chippe	Alcona Brownlee Lake Alcona Hubbard Lake Alcona Hubbard Lake Alcona Hubbard Lake Alcona Brownlee Lake Alcona Hubbard Lake Alcona Brownlee Lake Alcona Hubbard Lake Alcona Brownlee Lake Alcona Brownlee Lake Alcona Brownlee Lake Alcona Brownlee Lake Alcona Beaver Lake Alcona Beaver Lake Alcona Beaver Lake Alcona Beaver Lake Antrim Central Lake Ballea Bellaire Antrim Torch Lake Oasis Lake Isarry Gun Lake Barry Gun Lake Barry Gun Lake Bay Saginaw River Bay Saginaw River Is Bay Saginaw River Benzie Otter Creek Charlevoix Thumb Lake Charlevoix Walloon Lake Chippewa Monocle Lake Chippewa Monocle Lake Clare Budd Lake Clare Shingle Lake Clare Shingle Lake Clare Silver Lake Clare Silver Lake Fox Memorial Park Beach Emmet Crooked Lake Emmet Larks Lake Emmet Pickerel Lake Emmet Pickerel Lake Emmet Pickerel Lake Genesee Copneconic Lake Genesee Copneconic Lake

		County	Water Body		Location
	38	Genesee	Fenton Lake	5	Township Hall
	39	Genesee	Hasler Lake	6	Hasler Lake Campground
	40	Genesee	Holloway Reservoir	7	Buttercup Beach
	41	Genesee	Kelly Lake	8	Kelly Lake
	42	Genesee	Lake Linda	9	Lake Linda
	43	Genesee	Mott Lake	10	Bluebell Beach
	44	Genesee	Myers Lake	11	Myers Lake
	45	Genesee	Otter Lake	12	Griswold Park
	46	Genesee	Pinewood Lake	13	Beach at Pinewood Lake
	47	Genesee	Silver Lake	14	City Park Beach
	48	Genesee	West Sister Lake	15	West Sister Lake
<u>15</u>	49	<u>Gladwin</u>	Cedar River		Gladwin City Park
	50	Gladwin	Pratt Lake	2	Pratt Lake
	51	Gladwin	Ross Lake	3	Beaverton City Park
<u>16</u>	52	<u>Gogebic</u>	Lake Gogebic		Gogebic County Park
	53	Gogebic	Lake Gogebic	2	Lake Gogebic State Park Beach
	54	Gogebic	Sunday Lake	3	Sunday Lake Beach
<u>17</u>	55	<u>Houghton</u>	Lake Roland	1	Twin Lakes State Park
<u>18</u>	56	<u>Ingham</u>	Burchfield Pond	1	Burchfield Park
	57	Ingham	Hawk Island	2	Hawk Island County Park
	58	Ingham	Lake Lansing	3	Lake Lansing Park South
	59	Ingham	Valhalla Pond	4	Valhalla Park
<u>19</u>		losco	Cedar Lake		Greenbush Township beach
		losco	Foote Pond		Old Orchard Park
		losco	Long Lake		Long Lake Public Access
	63	losco	Van Ettan Lake	4	Oscoda Township Park- Van Ettan Lake
<u>20</u>		<u>Isabella</u>	Borrow Pit		Herrick County Park
		Isabella	Chippewa River		Deerfield County Park
		Isabella	Coldwater Lake		Coldwater Park
	67	Isabella	Halls Lake	4	Halls Lake
<u>21</u>		Kalamazoo	Blue Lake		Cold Brook County Park
		Kalamazoo	Campbell Lake		Robert Morris Park
		Kalamazoo	Eagle Lake		Fort Custer Recreation Area Beach
		Kalamazoo	Gull Lake		Ross Township Park
		Kalamazoo	Hogsett Lake		Prairie View County Park
		Kalamazoo	Long Lake		Ramona Park
		Kalamazoo	Sunset Lake		Sunset Lake Park
		Kalamazoo	Swimmers Lake		Markin Glen County Park
	76	Kalamazoo	Woods Lake	9	Woods Lake Beach
			1		
<u>22</u>		<u>Leelanau</u>	inland lake		Sleeping Bear Dunes-Little Glen Lake
	78	Leelanau	inland lake	2	Sleeping Bear Dunes-North Bar Lake
<u>23</u>	79	<u>Livingston</u>	Bentley Lake	1	Camp Innisfree

		County	Water Body		Location
	80	Livingston	Bishop Lake	2	Brighton State Recreation Area
	81	Livingston	Cordley Lake	3	Varsity Day Camp
	82	Livingston	Church Lake	4	Wildwood Ranch
	83	Livingston	Cook Lake	5	Taylor's Beach
	84	Livingston	Haynor Lake	6	Hamburg Fitness Center & Camp
	85	Livingston	Kent Lake	7	Island Lake Recreation Area - Kent Lake
	86	Livingston	Lake Chemung	8	Lake Chemung Outdoor Resort
	87	Livingston	Lake Walden	9	Waldenwoods Resort
	88	Livingston	Pleasant Lake	10	Howell Nature Center
	89	Livingston	Spring Mill Pond	11	Island Lake Recreation Area
	90	Livingston	Thompson Lake	12	Howell City Park
	91	Livingston	Winans Lake	13	Lakelands Golf & Country Club
<u>24</u>	92	<u>Mackinac</u>	Brevort Lake	1	Brevort Lake Campground Beach
			Stony Creek Lake-		
<u>25</u>	93	<u>Macomb</u>	Impoundment	1	Stony Creek Metropark-Baypoint Beach
			Stony Creek Lake-	_	
	94	Macomb	Impoundment	2	Stony Creek Metropark-Eastwood Beach
<u>26</u>	95	<u>Midland</u>	Sanford Lake	1	Sanford Lake Park
~=	00	N	(Total Bull Comment Book
<u>27</u>	96	<u>Monroe</u>	(man-made pond)	1	Totem Pole Campground Pond
20	07	Montmoronov	Clear Lake	1	Clear Lake State Park
<u>28</u>	97	<u>Montmorency</u>	Clear Lake	ı	Clear Lake State Park
29	98	<u>Muskegon</u>	Bear Lake	1	Laketon Township Beach
<u>20</u>		Muskegon	Big Blue Lake		Blue Lake County Park Beach
		Muskegon	Duck Lake		Duck Lake State Park Beach
		Muskegon	Fox Lake		Fox Lake Park Beach
		Muskegon	Goose Egg Lake		Kattulpa
		Muskegon	Half Moon Lake		Moore County Park Beach
		Muskegon	Mona Lake	7	Ross Park Beach
		Muskegon	Muskegon Lake		Harbor Towne Beach
		Muskegon	Twin Lake		Twin Lake County Park Beach
		Muskegon	West Lake		Paddley Park
		Muskegon	White Lake		Maple Park
		Muskegon	Wolf Lake		Sunset Park
30	110	Oakland	Adams Lake	1	Addison Oaks Co. Park
		Oakland	Big Peat Lake	2	Haas Lake Park #2
	112	Oakland	Big Seven Lake	3	Seven Lakes Park
	113	Oakland	Bush Lake	4	Holly Village Beach
	114	Oakland	Cass Lake	5	Dodge Park #4
	115	Oakland	Cass Lake	6	Keego Harbor City Beach
	116	Oakland	Cass Lake	7	Pontiac Yacht Club
	117	Oakland	Crooked Lake		Independence Oaks County Park
		Oakland	Deer Lake		Independence Township Village Beach
		Oakland	Fish Lake		Camp Ohiyesa - North
		Oakland	Green Lake		Bay Court Park
	121	Oakland	Green Lake	12	Camp Wathana

Appendix D.1. Inland Beaches Monitored.

		County	Water Body		Location
		Oakland	Green Lake	13	Clear Water Resort
	123	Oakland	Haas Lake	14	Haas Lake Park #1
	124	Oakland	Haas Lake	15	Haas Lake Park #3
	125	Oakland	Handsome Lake	16	Camp Oakland - summer
	126	Oakland	Heron Lake	17	Holly Recreation Area - Heron Beach
	127	Oakland	Kent Lake	18	Kensington - Maple beach
	128	Oakland	Kent Lake	19	Kensington - Martindale Beach
	129	Oakland	Long Lake	20	Christ the King Church Camp
		Oakland	Lower Trout	21	Bald Mountain Recreation Area
		Oakland	Mill Pond	22	Davisburg Village Beach (Hart Community Center)
		Oakland	No Name	23	Thelma Spencer Park
	133	Oakland	Orchard lake	24	Country Club (500 W. Shore Dr)
	134	Oakland	Orion Lake	25	Greens Park Village Beach
	135	Oakland	Phillips Lake	26	Camp Dearborn - Lake #1
	136	Oakland	Phillips Lake	27	Camp Dearborn - Lake #5
	137	Oakland	Phipps Lake	28	Camp Maas - Rodecker
	138	Oakland	Phipps Lake	29	Camp Maas- Sobell Beach
	139	Oakland	Pontiac Lake	30	Pontiac Recreation Area
	140	Oakland	Prince Lake		Upland Hills Farm
	141	Oakland	Proud Lake	32	Proud Lake Recreation Area Campground
	142	Oakland	Round Lake	33	Scripter Village Park Township Beach
	143	Oakland	Sand Lake	34	Seven Lakes State Park - Campground
	144	Oakland	Stewart Lake	35	Groveland Oaks County Park - Paradise Beach
	145	Oakland	Stony Lake	36	Stony Lake Park
	146	Oakland	Sun Lake	37	Finnish Day Camp
	147	Oakland	Sylvan Lake	38	Ferndale
	148	Oakland	Teeple Lake	39	Teeple Lake Recreation Area - Highland State Park
	149	Oakland	Tipsico Lake	40	Brown's Landing Mobile Home Park
	150	Oakland	Tommys Lake		Camp Agawam Boy Scout Camp
		Oakland	Walled Lake	42	E.V. Mercer City Beach
	152	Oakland	Walled Lake	43	Lakeshore Park
	153	Oakland	Walnut Lake	44	Bloomfield Parks & Recreation/West Hills M.S.
<u>31</u>	154	<u>Ogemaw</u>	Devoe Lake		Rifle River Recreation Area
		Ogemaw	Grousehaven Lake		Rifle River Recreation Area Campground Beach
		Ogemaw	Rifle Lake		Shady Shores Park Subdivision Beach
	157	Ogemaw	Skidway Lake	4	Skidway Lake
		<u>Ontonagon</u>	Lake Gogebic		Bergland Township Park
	159	Ontonagon	Lake Gogebic	2	Ontonagon County Park
		<u>Osceola</u>	Big Lake		Crittenden Park
		Osceola	Center Lake		Center Lake Park
		Osceola	Muskegon River		Crawford Park
		Osceola	Rose Lake		Rose Lake County Park
	164	Osceola	Sunrise Lake	5	Sunrise Lake Park
		<u>Oscoda</u>	Perry Lake		Comins Township. Park
	166	Oscoda	Smith Lake	2	Oscoda County Park
<u>35</u>	167	<u>Otsego</u>	Bear Lake	1	Bear Lake State Forest Campground

Appendix D.1. Inland Beaches Monitored.

	County	Water Body		Location
	Otsego	Big lake	2	Big Lake
169	Otsego	Otsego Lake	3	Arbutus Beach
170	Otsego	Otsego Lake	4	Otsego County Park
171	Otsego	Otsego Lake	5	Otsego Lake State Park North
172	Otsego	Otsego Lake		Otsego State Park
	Otsego	Otsego Lake	7	WahWahSoo Beach
174	Otsego	Pickeral Lake	8	Pickeral Lake State Forest Campground
	Ottawa	Crockery Lake		Grose Park
	Ottawa	Georgetown Lake		Georgetown Community Park
	Ottawa	Lake Macatawa	_	Dunton Park
	Ottawa	Lake Macatawa		Fallen Leaf Park
	Ottawa	Lake Macatawa		Holland State Park
	Ottawa	Pottawattomie Bayou		Pottawattomie Park
181	Ottawa	Spring Lake	/	Lakeside Beach
07.400		I Production Labor		Overal Transition Park
	Roscommon	Higgins Lake		Gerrish Township Park
	Roscommon	Higgins Lake		South Higgins Lake State Park
	Roscommon	Houghton Lake		Denton Township Public Beach
	Roscommon	Houghton Lake Lake St. Helen		Houghton Lake Heights
186	Roscommon	Lake St. Helen	5	Richfield Township Public Fishing Site
20 407	Schoolcraft	Indian Lake State Park	1	Indian Lake
	Schoolcraft			Quarry Beach
100	Schoolciait	Quarry Beach		Quality Deach
39 189	St. Clair	Emmett K.O.A. Pond	1	Emmett K.O.A.
	St. Clair	Fort Trodd Lake		Fort Trodd Campground North
	St. Clair	Fort Trodd Lake		Fort Trodd South
	St. Clair	Kimball Pond	4	Kimball Township Pond
				·
193	St. Clair	Ruby Campground Pond	5	Ruby Campground
				, , ,
<u>40</u> 194	<u>Washtenaw</u>	Bruin Lake	1	Pinckney Recreation Area
195	Washtenaw	Half Moon Lake	2	Pinckney Recreation Area
196	Washtenaw	Independence Lake	3	Independence Lake County Park
	Washtenaw	Silver Lake		Pinckney Recreation Area
198	Washtenaw	Sugarloaf Lake	5	Waterloo Recreation Area
	<u>Wayne</u>	Belleville Lake		Van Buren Township Park
200	Wayne	Lake at Park	2	Sherwood Park
	Wexford	Billings Lake		Manton Park
	Wexford	Lake Cadillac		Cadillac City Dock
	Wexford	Lake Cadillac		City Park
	Wexford	Lake Cadillac		Kenwood Park
	Wexford	Lake Meauwataka		Colfax Township Park
206	Wexford	Lake Mitchell	6	Mitchell State Park

		County	Water Body	Location
<u>1</u>	1	Alcona	Alcona Pond	1 Alcona Pond West Campground
_		Alcona	Brownlee Lake	2 Brownlee Lake - Village of Lincoln Park
	3	Alcona	Hubbard Lake	3 Alcona Township Park
<u>2</u>	4	Allegan	Dumont Lake	1 Dumont Lake County Park Beach
	5	Allegan	Ely Lake	2 Ely Lake Campground Beach
	6	Allegan	Gun Lake	3 Gun Lake County Park Beach
	7	Allegan	Little John Lake	4 Little John Lake County Park Beach
	8	Allegan	Swan Creek Pond	5 Pine Point Campground Beach
<u>3</u>		<u>Alpena</u>	Long Lake	1 Long Lake Day Use
	10	Alpena	Long Lake	2 Long Lake Park
<u>4</u>		<u>Antrim</u>	Torch Lake	1 Eastport
		Antrim	Torch Lake	2 Torch River Bridge
	13	Antrim	Torch River	3 Torch River Sand Bar
_		_	A 0 D:	(B) B A A C B
<u>5</u>	14	<u>Arenac</u>	Au Gres River	1 DNR Access-Au Gres River
	4.5	Arongo	Flint Park Hunt Club Lake	2) Elint Dark Hunt Club
		Arenac Arenac	Man made Pond	2 Flint Park Hunt Club 3 Big Bend Campground
		Arenac	Man made Pond	4 Outdoor Adventures
		Arenac	Pine River	5 Pine River Public Access
	10	Aleliac	rille Kivei	SIFINE RIVER F UDIIC Access
<u>6</u>	19	Barry	Gull Lake	1 Prairieville Township Park
<u>~</u>		Barry	Gun Lake	2 Old Beach - Day Use Area
		,		
7	21	<u>Benzie</u>	Crystal Lake	1 Bellows
	22	Benzie	Crystal Lake	2 South Shore near Beulah
<u>8</u>		<u>Berrien</u>	Paw Paw Lake	1 Paw Paw Lake
		Berrien	St. Joseph River	2 Bertrand Park
		Berrien	St. Joseph River	3 Niles - French Paper
	26	Berrien	St. Joseph River	4 Niles - Marmont
_	~=		E'arthala	10.1
<u>9</u>		Branch	First Lake	1 Quincy Park
	28	Branch	Messenger Lake	2 Memorial Park
10	20	<u>Calhoun</u>	Duck Lake	1 Springport
<u>10</u>		Calhoun	Goguac Lake	2 Willard Beach in Battle Creek
	50	Carrouri	Coguae Lake	2 William Beach in Battle Oreck
<u>11</u>	31	Charlevoix	Huffman Lake	1 Hudson Township Park
	٠.	<u> </u>	Training Lance	The state of the s
<u>12</u>	32	Cheboygan	Black Lake	1 Black Lake S.F.C.G.
		Cheboygan	Black Lake	2 Bluffs Beach
		Cheboygan	Burt Lake	3 Burt Lake State Park
	35	Cheboygan	Burt Lake	4 Devoe Beach
		Cheboygan	Burt Lake	5 Hoppie's Launch
		Cheboygan	Burt Lake	6 Maple Bay Park
		Cheboygan	Douglass Lake	7 Ryder's Landing
	39	Cheboygan	Mullett Lake	8 Aloha State Park

Appendix D.2. Inland Beaches Not Monitored.

		County	Water Body		Location
	40	Cheboygan	Mullett Lake	9	Boy Scout Launch
		Cheboygan	Mullett Lake		Foot Road Park
		Cheboygan	Mullett Lake		Grand View Beach
		Cheboygan	Mullett Lake		Hobert's Launch
		Cheboygan	Mullett Lake		Orchard Beach
		Cheboygan	Mullett Lake		Polish Line Beach
		Cheboygan	Mullett Lake		Topinabee Park
		Cheboygan	Webber Lake		Webber Lake State Park
<u>13</u>	48	Chippewa	Caribou Lake	1	Caribou Lake
		Chippewa	Carp Lake	2	Trout Lake
	50	Chippewa	Soldiers Lake	3	Soldiers Lake
<u>14</u>	51	<u>Clare</u>	Arnold Lake	1	Arnold Lake Beach
	52	Clare	Cranberry lake	2	Cranberry Lake South
	53	Clare	Crooked Lake	3	Crooked Lake Beach
	-	Clare	Crooked Lake		Hillcrest Public Landing
	55	Clare	Doc and Tom Lake	5	Lake of the Pines
		Clare	Dodge Lake		Dodge Lake Beach
		Clare	George Lake		Lake George Public Landing
	58	Clare	Grass Lake	8	Sandy Shores Beach
			Hayes Lake (Cranberry		
		Clare	Lake)		Oak Hills Children's Camp
		Clare	Lilly Lake		Lilly Lake Beach
		Clare	Long Lake		Long Lake Beach
		Clare	Muskegon River		Muskegon River Township Park
		Clare	Sand Lake		Sand Lake Beach
		Clare	Shamrock Lake		City of Clare Park
	65	Clare	Townline Lake	15	Cedar Shores Beach
4.5	00	0" 1			
<u>15</u>	рр	Clinton	Lake Ovid	1	Sleepy Hollow State Park Beach
16	67	<u>Eaton</u>	Grand River	1	Lincoln Brick Park
<u>16</u>	67	Edion	Granu River	- !	LITCOIT BITCK PAIK
<u>17</u>	68	Emmet	Crooked Lake	1	Oden Beach
<u></u>	00	Lilliot	CTOOKEG Lake		Oddii Boddii
18	69	Genesee	Barnum Lake	1	Barnum Lake
		Genesee	Buell Lake		Boat Ramp at Buell Lake
	71	Genesee	Crane Lake		Crane Lake Beach
	72	Genesee	Crooked Lake	4	Crooked Lake
	73	Genesee	Dollar lake	5	Dollar Lake
	74	Genesee	Fenton Lake	6	DNR Boat Dock-Fenton Lake
	75	Genesee	Fenton Lake	7	Fenton Lake Marina
	76	Genesee	Flagstone Point	8	Flagstone Point Beach
		Genesee	Golden Rod Lake	9	Golden Rod Beach
	78	Genesee	Hasler Lake	10	Beach at Hasler Lake
	79	Genesee	Holloway Reservoir	11	Walleye Pike Dock
	80	Genesee	Kearsley Reservoir	12	Kearsley Reservoir Beach
	81	Genesee	Lake Helene	13	Lake Helene Beach
	82	Genesee	Lake Ponemah		at Drain
	83	Genesee	Lake Ponemah	15	DNR Boat Launch at Lake Ponemah

Appendix D.2. Inland Beaches Not Monitored.

		County	Water Body		Location
	84	Genesee	Lake Shinangaug	16	Lake Shinangaug
		Genesee	Linden Mill Pond		Linden Mill Pond Beach
	86	Genesee	Lobdell Lake	18	DNR Boat Launch at Lobdell Lake
	87	Genesee	Loon Lake	19	Loon Lake Beach
	88	Genesee	Marl Lake	20	Marl Lake Beach
	89	Genesee	McCaslin Lake	21	McCaslin Lake Beach
	90	Genesee	McKane Lake	22	McKane Lake Beach
	91	Genesee	Mott Lake		Bluegill Boat Ramp
	92	Genesee	Mott Lake	24	Mott Lake Beach
			Mott Lake Stepping		
		Genesee	Stone		Mott Lake Stepping Stone Beach
		Genesee	Pine Lake		Pine Lake Beach
		Genesee	Silver Lake		Silver Lake Marina
		Genesee	Smokerise Lake		Smokerise Beach
	-	Genesee	Squaw Lake		Squaw Lake Beach
	98	Genesee	Thread Lake	30	Thread Lake Beach
10	00	Claduda	Cedar River	- 1	Coder Diver Compareund Deceb
<u>19</u>		Gladwin Gladwin	Cedar River		Cedar River Campground Beach Gladwin North Park
		Gladwin	Flowing well/pond		Gilman Springs Swimming Area
		Gladwin	Hoister Lake		Hoister Lake Beach
		Gladwin	House Lake		House Lake
		Gladwin	Lake Four		Lake Four
		Gladwin	Lake Lancer		Sugar Springs/Lake Lancer
					ougui opiniga zuito zuitot.
•	106	Gladwin	Lyle Drain/Tobacco River		Lost Haven Beach
•	107	Gladwin	Secord Lake	9	Secord Lake
		Gladwin	Secord Lake		Secord Lake - East
		Gladwin	Secord Lake		West River Drive Boat Launch
		Gladwin	Tittabawassee River		Estey Road Access
		Gladwin	Tittabawassee River		Gilman Springs Canoe Launch
		Gladwin	Tittabawassee River		Good News Camp
		Gladwin	Tittabawassee River		Pine Street Public Access
		Gladwin	Trout Lake		Trout Lake SFCG
		Gladwin	Wiggins Lake North		Wiggins Lake DNR Boat Launch
		Gladwin Gladwin	Wiggins Lake South Wixon Lake		Wiggins Lake - at Clendening Road Wixon Lake - West
	117	Giadwin	WIXUII Lake	19	VVIXOII Lake - VVeSt
			Long Lake (AKA: Mickey		
20 -	118	Grand Traverse	Lake)	1	Gilbert Beach
<u>20</u>	110	Orana Traverse	Long Lake (AKA: Mickey		Chibort Bodon
	119	Grand Traverse	Lake)	2	Taylor Park
					- wy con a control
21 ′	120	Hillsdale	Baw Beese Lake	1	Sandy Beach
		Hillsdale	Bird lake		Bird Lake Beach
<u>22</u> ′	122	losco	Chain Lake	1	Chain Lake Beach
		losco	Foote Pond		Footsite Park
		losco	Loon Lake		Loon Lake Park
•	125	losco	Sand Lake	4	Sand Lake - Sand Lake Road Access

Appendix D.2. Inland Beaches Not Monitored.

		County	Water Body		Location
23	126	<u>Isabella</u>	Millpond	1	Millpond Park
			· ·		
24	127	Jackson	Clark Lake	1	Clark Lake County Park
		Jackson	Clear Lake		Clear Lake County Park
	129	Jackson	Gilletts Lake		Gilletts Lake County Park
	130	Jackson	Grass Lake		Grass Lake County Park
	131	Jackson	Lime Lake		Lime Lake County Park
	132	Jackson	Little Wolf Lake	6	Little Wolf Lake County Park
	133	Jackson	Pleasant Lake	7	Pleasant Lake County Park & Campground
	134	Jackson	Portage Lake	8	Portage Lake County Park
	135	Jackson	Round Lake	9	Round Lake County Park
	136	Jackson	Swains Lake	10	Swains Lake County Park
	137	Jackson	Vandercook Lake	11	Vandercook Lake County Park
	138	Jackson	Vineyard Lake	12	Vineyard Lake County Park
<u>25</u>	139	<u>Kalamazoo</u>	Timber Lake	1	Timber Lake Campground
<u> 26</u>	140	Kent	Lincoln Lake	1	Lincoln Lake Baptist Camp
	141	Kent	Lincoln Lake	2	Lincoln Pines Resort
	142	Kent	Long Lake	3	Long Lake County Park
	143	Kent	Myers Lake		Myers Lake County Park
	144	Kent	Reeds Lake	5	Collins Park
	145	Kent	Scalley Lake	6	Scalley Lake Park
	146	Kent	Versluis Lake	7	Versluis Park
	147	Kent	Wabasis Lake	8	Wabasis Lake County Park
<u>27</u>		<u>Leelanau</u>	Lake Leelanau	1	Leelanau Township Park Beach
	149	Leelanau	Lake Leelanau	2	Nedow's (Barthalomew) Beach
		Leelanau	Lake Leelanau		Popp Road End
	151	Leelanau	South Bar Lake	4	South Bar Lake - South End
<u>28</u>		<u>Livingston</u>	Chenago Lake		Camp Talahi
	153	Livingston	Dibrova Lake	2	Green Valley Camp
	154	Livingston	Pickerel Lake	3	Providence Medical Center
		J			
20	455	Manarratta	Dead River Reservoir		Marguetta Tauriat Dark Dagah
<u>29</u>		Marquette Marguette	Shiras Pool		Marquette Tourist Park Beach
	156	Marquette	Silias Pool		Shiras Swimming Area
20	457	Manaminaa	Hermansville lake	- 1	Hermansville Beach
<u>30</u>		Menominee Menominee			Shakey Lakes Campground
	158	Menominee	Shakey Lakes		Shakey Lakes Campground
24	450	Manraa	Comp. Lord William Dand	4	Comp Lord William
<u>31</u>	159	<u>Monroe</u>	Camp Lord Willing Pond		Camp Lord Willing
	100	Monroo	Covered Wagon	0	Covered Wegen Compareund
		Monroe	Campground Pond Heath Beach Pond		Covered Wagon Campground
		Monroe			Heath Beach
	162	Monroe	K.C. Campground Pond	4	K.C. Campground
	400	Managa	Monroe KOA	_	Managa K O A Caran grayind
	163	Monroe	Campground Pond	5	Monroe K.O.A. Campground

Appendix D.2. Inland Beaches Not Monitored.

		County	Water Body		Location
			Pirollis Campground		
	164	Monroe	Pond	6	Pirolli's Campground
			The Vine campground		
	165	Monroe	pond	7	The Vine
			Wilderness Retreat		
	166	Monroe	Campground Pond	8	Wilderness Retreat Campground
		Montmorency	Clear Lake		Clear Lake Day Use
		Montmorency	Crooked Lake		Crooked Lake Beach
		Montmorency	East Twin Lake		East Twin Beach/Albert Township Park
	170	Montmorency	Ess Lake	4	Ess Lake State Campground
22	171	Muskagan	Mona Lake	1	Mona Lake Park Beach
		Muskegon Muskegon	Muskegon Lake		Muskegon State Park - Muskegon Lake Side
		Muskegon	Muskegon Lake		Water Sports Park
		Muskegon	Wolf Lake		Wolf Lake County Park
	174	iviuskegori	Woll Lake	4	Woll Lake County Falk
34	175	<u>Oakland</u>	Allen Lake	1	Fox Bay Civic Association
		Oakland Oakland	Avon Lake		Avon Lakes Beach #1
		Oakland	Avon Lake		Avon Lakes Beach #2
		Oakland	Bass Lake		Idlewild Subdivision
		Oakland	Bogie Lake		Bogie Lake Property Owners - Beryl Drive
		Oakland	Bogie Lake		Pinecrest Shores
		Oakland	Brendel Lake		Brendle Heights - Hillwood
		Oakland	Brendel Lake		Lakewood Village
		Oakland	Brendel Lake		Pawlaks Campground
		Oakland	Carpenter Lake		Lakeview Recreation
	185	Oakland	Carpenter Lake	11	Silver Valley Subdivision
	186	Oakland	Cass Lake		Cass Lake Woods
	187	Oakland	Cass Lake	13	Keego Harbor Trailer Park
	188	Oakland	Cass Lake	14	Sylvan-on-the-Lakes
	189	Oakland	Cass Lake	15	Willow Beach Subdivision
	190	Oakland	Cedar Island Lake	16	Cedar Crest Subdivision
	191	Oakland	Cedar Island Lake		Sunset Subdivision
	192	Oakland	Charnwood Lake		Charnwood
		Oakland	Clear Lake		Lakeland Improvement Association - Keith Street
		Oakland	Commerce Lake		Log Cabin Sub.
		Oakland	Cranberry Lake		Cranberry Lake Village
		Oakland	Cranberry Lake		Cranberry Lake Village
		Oakland	Crescent Lake		Crescent Highlands
		Oakland	Crescent Lake		Crescent Lake Park
		Oakland	Darb Lake		Mission Springs Subdivision
		Oakland	Davis Lake		Meagher Park/Woodland Manor
		Oakland	Deer Lake		Deer Lake Estates
		Oakland	Eagle Lake		Eagle Lake Road
		Oakland	Eagle Lake		Lakeland Estates
		Oakland	Ekelund Lake		Camp Gordanwood
		Oakland	Elizabeth Lake		Bloomfield
		Oakland	Elizabeth Lake		Cass-Elizabeth Heights
		Oakland	Elizabeth Lake		Elizabeth Lake Estates Improvement Assoc.
	208	Oakland	Elizabeth Lake	34	Elizabeth Lakeshore

Appendix D.2. Inland Beaches Not Monitored.

	County	Water Body		Location
209	Oakland	Elizabeth Lake	35	Elizabeth Shores
210	Oakland	Elizabeth Lake	36	Rangate Park
211	Oakland	Elizabeth Lake		Terrace
212	Oakland	Elizabeth Lake	38	Walters
213	Oakland	Emerald Lake	39	Emerald Lake
214	Oakland	Fox Lake	40	Cloister-on-the-Lakes
215	Oakland	Geneva Lake	41	Lakewood Farms - Crocus Street
216	Oakland	Geneva Lake	42	Lakewood Farms - Sharon Street
217	Oakland	Green Lake	43	Green Acres / Green Valley Park
218	Oakland	Hammond Lake		Hammond Estates
219	Oakland	Harvey Lake	45	Harvey Lake Estates
220	Oakland	Harvey Lake		Harvey Lake Heights
	Oakland	Heather Lake	47	Heather Lake Estates
222	Oakland	Huntoon Lake	48	Broadway Civic Association
	Oakland	Huntoon Lake		Burlingham Lake Park I
	Oakland	Huntoon Lake		Burlingham Lake Park II
	Oakland	Huntoon Lake		Huntoon Village
-	Oakland	Indian Lake		Indian Lake Improvement Association
	Oakland	Lakeville Lake		Doll's Dock (Skip's Landing)
	Oakland	Long Lake		Annex 1
	Oakland	Long Lake		Bunny Run C.C.
	Oakland	Long Lake		Twin Shores Subdivision
	Oakland	Loon Lake		Birch Park
	Oakland	Loon Lake		Indianwood
	Oakland	Loon Lake		Sandy Beach
	Oakland	Lotus Lake		Harris Park
	Oakland	Lotus Lake		Lotus Park
	Oakland	Lotus Lake		Mountain View
	Oakland	Lower Straits		Maple Point
	Oakland	Lower Straits Lake		Lower Straits Beach Club
	Oakland	Lower Straits Lake		Shores at Bay Point
	Oakland	Maceday Lake		Moutain View C.C. Subdivision
	Oakland	Maceday Lake		Whitfield-Maceday Association - North
	Oakland	Maceday Lake		Whitfield-Maceday Association - South
	Oakland	Marion Lake		Locklin Pines Association
	Oakland	Meadow Lake		Meadow Lake Association
	Oakland	Middle Straits Lake		Crystal Echo
	Oakland	Middle Straits Lake		Crystal Echo (the point)
	Oakland	Middle Straits Lake		Stony Beach
	Oakland	Middle Straits Lake		Tripps Sub. Park
	Oakland	Middle Straits Lake		Twin Beach Park
	Oakland	Middle Straits Lake		West Acres
	Oakland	Morgan Lake		Lake Angelus Lakeview Estates
	Oakland	Mud Lake		Rose Hill Center
	Oakland	Narrin Lake		Camp Narrin
	Oakland	Neva Lake		Lakewood Village Subdivision
	Oakland	Oakland Lake		Bird Island Subdivision
	Oakland	Oakland Lake		Lake Oakland Heights
	Oakland	Oakland Lake		Lake Oakland Shores
	Oakland	Orchard Lake		St. Mary's Park
259	Oakland	Orion Lake	85	Lake Orion Heights

Appendix D.2. Inland Beaches Not Monitored.

	County	Water Body		Location
260	Oakland	Orion Lake	86	Sunset Club
261	Oakland	Pine Lake	87	Pine Lake Manor
262	Oakland	Pleasant Lake	88	Pleasant Lake Highlands
263	Oakland	Pleasant Lake		Pleasant Lake Manor
264	Oakland	Pleasant Lake	90	Pleasant Lake Woods
265	Oakland	Reed Lake	91	Reed Lake Property Owners
266	Oakland	Round Lake	92	Family Park
267	Oakland	Rowe Lake	93	Jacksina Subdivision
268	Oakland	Sandshores	94	Emerald Lake Homeowners Assoc Little Creek Road
269	Oakland	Scotch Lake		Scotch Lake Residents
270	Oakland	Sherwood Lake	96	Ledgewood
271	Oakland	Sherwood Lake	97	Ravinewood East
272	Oakland	Sherwood Lake	98	Ravinewood West
273	Oakland	Sherwood Lake	99	Sherwood Boat Ramp
274	Oakland	Sherwood Lake	100	Sherwood Property Owners
275	Oakland	Silver Lake	101	Silver Hill Road
276	Oakland	Square Lake	102	Pleasant View Subdivision
277	Oakland	Square Lake	103	Pleasant View Subdivision - Kempster St
278	Oakland	Sugden Lake	104	Oakridge Subdivision
279	Oakland	Sylvan Lake	105	Cunningham Park
280	Oakland	Sylvan Lake	106	Lakeview
281	Oakland	Sylvan Lake		Pioneer Highlands
282	Oakland	Sylvan Lake	108	Sylvan Shores Improvement Association
283	Oakland	Tan Lake	109	Mary K. Subdivision
284	Oakland	Union Lake		Alpha Beach
285	Oakland	Union Lake	111	Burley & Barnsbury Streets
286	Oakland	Union Lake		Union Lake Beach Club
	Oakland	Union Lake		Union Lake Heights Subdivision #2
	Oakland	Upper Pettibone Lake	114	657 Dunleavy
	Oakland	Upper Pettibone Lake		Oak Heights Improvement Association, 3015 Lakeview
	Oakland	Upper Straits Lake		Banker's Subdivision
	Oakland	Upper Straits Lake		Bayside Beach Association
	Oakland	Upper Straits Lake		Outlet A
	Oakland	Upper Straits Lake		Shady Beach
	Oakland	Van Norman Lake		Waterford Hill
	Oakland	Voorheis Lake		Keatington Subdivision - Eaton Gate - off Baldwin
	Oakland	Voorheis Lake		Keatington Subdivision - Joslyn Ct.
	Oakland	Walled Lake		Beachwalk Apartments
	Oakland	Walnut Lake		Bloomfield Square Beach Association
	Oakland	Walnut Lake		Finnish American Club of Detroit
	Oakland	Walnut Lake		Lone Pine Association
	Oakland	Walnut Lake		North Cove
	Oakland	Walnut Lake		Shenandoah Farms Association
	Oakland	Walnut Lake		Walnut Lake Estates
	Oakland	Walnut Lake		Walnut Lake Hills Corporation
	Oakland	Walnut Lake		Walnut Lake Park
	Oakland	Walnut Lake		Walnut Lake Property Owners Sub #1
	Oakland	Walters Lake		Sunny Beach #1 - Eston Road
	Oakland	Walters Lake		Sunny Beach #2 - Clarkston Road
	Oakland	Watkins Lake		Heitch Street
310	Oakland	Watkins Lake	136	Lakeland Association #1

Appendix D.2. Inland Beaches Not Monitored.

		County	Water Body		Location
	311	Oakland	Watkins Lake	137	Lakeland Association #2
		Oakland	Watkins Lake		Lanarh Street
		Oakland	Watkins Lake		Whitney Street
		Oakland	Waumegah Lake		Lake Waumegah Homeowners Association
	-	Oakland	Whipple Lake		Whipple Shores Subdivision
		Oakland	White Lake		Rolling Acres
		Oakland	White Lake		Stanley Beach
		Oakland	Wildwood Lake		Holly Recreation Area - Wildwood Beach
		Oakland	Wing Lake		Westwood Manor
		Oakland	Wing Lake		Wing Lake Farms Association
		Oakland	Wing Lake		Wing Lake Property Owners Association
		Oakland	Woodhull Lake		Woodhull Lake Civic Association
35	323	<u>Ogemaw</u>	Grousehaven Lake	1	Rifle River Recreation Area Day Use Area
		Ogemaw	Hardwood Lake		Hardwood Lake
		Ogemaw	Lake George	3	Lake George Campground
<u>36</u>	326	<u>Osceola</u>	Center Lake	1	Center Lake Bible Camp
	327	Osceola	Center Lake	2	Kettunen Center
	328	Osceola	Diamond Lake	3	Diamond Lake
	329	Osceola	Diamond Lake	4	DNR Access Diamond Lake
	330	Osceola	Hicks Lake	5	DNR Access Hicks Lake
	331	Osceola	McCoy Lake	6	DNR Access McCoy Lake
	332	Osceola	Muskegon River	7	City of Evart Campground
	333	Osceola	Muskegon River	8	Hersey Road Access
	334	Osceola	Rose Lake		Rose Lake Youth Camp
	335	Osceola	Todd Lake	10	DNR Access Todd Lake
	336	Osceola	Wells Lake	11	DNR Access Wells Lake
<u>37</u>	337	<u>Oscoda</u>	Mio Pond	1	Mio Pond Campground
<u>38</u>	338	<u>Otsego</u>	Otsego Lake	1	Arbutus Beach
		_			
<u>39</u>	339	<u>Ottawa</u>	Maplewood Lake	1	Maplewood Lake Park
4.0					
		Presque Isle	Black Lake		Onaway State Park
		Presque Isle	Grand Lake		Grand Lake Northwest
		Presque Isle	Grand Lake		Grand Lake Public Access
		Presque Isle	Lake May		Lake May Public Access
		Presque Isle	Ocquoec River		Millersburg Park
		Presque Isle	Ocquoec River		Ocquoec Falls Park
		Presque Isle	Shoepac Lake		Shoepac Lake Camp Ground
		Presque Isle	Sunken Lake		Sunken Lake County Park
	348	Presque Isle	Tomahawk Lake	9	Tomahawk Lake Camp Ground
/11	3/10	Roscommon	Backus Pond	1	Backus Township. Park
41	J + 3	1.03common	Bambi Lake/Sinkhole	- 1	Dadicas Township. Fair.
	350	Roscommon	Lake	2	Bambi Lake Camp
		Roscommon	Higgins Lake		Beaver Creek Road End
		Roscommon	Higgins Lake		DNR Public Fishing Site
		Roscommon	Higgins Lake		Higgins Lake Public Fishing Site
	-55		J J J J J J J J J J J J J J J J J J J		55 / 5

Appendix D.2. Inland Beaches Not Monitored.

	County	Water Body		Location
354	Roscommon	Higgins Lake	6 K	elly Beach
355	Roscommon	Higgins Lake	7 Pł	hoenix Park
356	Roscommon	Higgins Lake	8 Sa	am-O-Set Road End
357	Roscommon	Houghton Lake	9 H	oughton Lake DNR Boat Launch and Park
358	Roscommon	Houghton Lake	0 H	oughton Lake Public Fishing Site
359	Roscommon			oughton Lake State Forest Campground
360	Roscommon	Houghton Lake	20	old 27 DNR Access
361	Roscommon	Owens Lake	3 C	amp Co-Be-Ac
<u>42</u> 362	<u>Saginaw</u>	Haithco Lake	1 Ha	aithco Recreation Area
362	Saginaw	Lake of Dreams	2 La	ake of Dreams Campground
<u>43</u> 364	St. Joseph	Cade Lake	1 C	ade Lake Beach
365	St. Joseph	Palmer Lake	2 Pa	almer Lake Beach
366	St. Joseph	Sand Lake	3 N	ottawa Park
<u>44</u> 367	<u>Tuscola</u>	Murphy Lake	1 M	lurphy Lake

Appendix E.1. Great Lakes Beaches Monitored.

		County	Water Body		Location
<u>1</u>	1	<u>Alcona</u>	Lake Huron	1	Harrisville State Park
<u>2</u>	2	<u>Alger</u>	Lake Superior	1	Sand Point
<u>3</u>	3	<u>Allegan</u>	Lake Michigan	1	Douglas Beach
	4	Allegan	Lake Michigan	2	Oval Beach
	5	Allegan	Lake Michigan	3	Pier Cove Beach
	6	Allegan	Lake Michigan	4	West Side County Park Beach
<u>4</u>	7	<u>Alpena</u>	Lake Huron		Blair Street Park
	8	Alpena	Lake Huron		Michekewis Beach
	9	Alpena	Lake Huron	3	Ossineke Beach
	10	Alpena	Lake Huron	4	Starlite Beach
	11	Alpena	Lake Huron	5	Thompson Park
<u>5</u>		<u>Antrim</u>	Lake Michigan		Antrim County Day Park South
		Antrim	Lake Michigan		Banks Township. Park
		Antrim	Lake Michigan	_	Barnes Park
		Antrim	Lake Michigan		Echo Township Park
		Antrim	Lake Michigan		Elk Rapids
	17	Antrim	Lake Michigan	6	Veterans Memorial Park
<u>6</u>		<u>Arenac</u>	Saginaw Bay-Lake Huron		16th Street Beach
		Arenac	Saginaw Bay-Lake Huron		28th Street Beach
		Arenac	Saginaw Bay-Lake Huron		Arenac County Park
		Arenac	Saginaw Bay-Lake Huron		Bessinger Road Beach
		Arenac	Saginaw Bay-Lake Huron		Cemetery Beach
		Arenac	Saginaw Bay-Lake Huron		Dyer Road Beach
		Arenac	Saginaw Bay-Lake Huron		Foster Road Beach
		Arenac	Saginaw Bay-Lake Huron		Hammel Beach Road Access
		Arenac	Saginaw Bay-Lake Huron		Singing Bridge Beach
		Arenac	Saginaw Bay-Lake Huron		Twining Road Beach
	28	Arenac	Saginaw Bay-Lake Huron	11	Whites Beach
7	20	Paraga	Kowanaw Pay / Laka Superior	1	L'Anno Waterfront Dark
<u>7</u>	29	<u>Baraga</u>	Keweenaw Bay / Lake Superior	ı	L'Anse Waterfront Park
<u>8</u>	30	Bay	Saginaw Bay-Lake Huron	1	Bay City State Recreation Area
<u>o</u>		Bay	Saginaw Bay-Lake Huron		Brissette Beach Township Park
		Bay	Saginaw Bay-Lake Huron		Pinconning Park
		Bay	Saginaw Bay-Lake Huron		South Linwood Beach Township Park
		Bay	Saginaw Bay-Lake Huron		Wenona Beach
	57		Jaginan Day Land Halon	J	
9	35	Benzie	Lake Michigan	1	Frankfort: Anchor Road Beach
<u> </u>	55	_ 	-a morngan		

Appendix E.1. Great Lakes Beaches Monitored.

		County	Water Body		Location
	36	Benzie	Lake Michigan	2	Sleeping Bear Dunes-Esch Road Beach
	37	Benzie	Lake Michigan	3	Sleeping Bear Dunes-Peterson Road Beach
	38	Benzie	Lake Michigan	4	Sleeping Bear Dunes-Platte Point Bay
	39	Benzie	Platte River	5	Sleeping Bear Dunes-Platte River Outlet
<u>10</u>	40	<u>Berrien</u>	Lake Michigan	1	Cherry Beach
	41	Berrien	Lake Michigan	2	Grand Beach
	42	Berrien	Lake Michigan	3	Hagar Township Park
	43	Berrien	Lake Michigan	4	Jean Klock Park
	44	Berrien	Lake Michigan	5	Lincoln Township Park
	45	Berrien	Lake Michigan	6	Lions Park
	46	Berrien	Lake Michigan	7	Michiana Village
	47	Berrien	Lake Michigan	8	New Buffalo City
	48	Berrien	Lake Michigan	9	Rocky Gap
	49	Berrien	Lake Michigan	10	Silver Beach
	50	Berrien	Lake Michigan	11	Tiscornia Park
	51	Berrien	Lake Michigan	12	Warren Dunes Beach
	52	Berrien	Lake Michigan	13	Weko Beach
<u>11</u>	53	<u>Charlevoix</u>	Lake Charlevoix	1	Depot Beach
	54	Charlevoix	Lake Charlevoix	2	East Jordan Tourist Park
		Charlevoix	Lake Charlevoix		Elm Point Beach
		Charlevoix	Lake Charlevoix		Ferry Beach
		Charlevoix	Lake Charlevoix		Fisherman's Island State Park
		Charlevoix	Lake Charlevoix		Glenwood Beach
		Charlevoix	Lake Charlevoix		Hayes Township Park
		Charlevoix	Lake Charlevoix		Lake Michigan Beach
		Charlevoix	Lake Charlevoix		Michigan Avenue
		Charlevoix	Lake Charlevoix		Norwood Township Park
		Charlevoix	Lake Charlevoix		Peninsula Beach
		Charlevoix	Lake Michigan		Tannery Park
		Charlevoix	Lake Michigan		Washington Street Beach
		Charlevoix	Lake Michigan		Whiting Park Beach
	67	Charlevoix	Lake Michigan	15	Young State Park Beach
<u>12</u>		<u>Cheboygan</u>	Lake Huron		Cheboygan City Park
		Cheboygan	Lake Huron		Cheboygan State Park Duncan Bay
		Cheboygan	Lake Huron		Mackinaw City Lighthouse Park
	71	Cheboygan	Lake Huron	4	Wawatam City Park
		<u> </u>			
<u>13</u>		<u>Chippewa</u>	Lake Superior	1	Bayview Campground
		Chippewa	Lake Superior		Big Pine Day Use Area
	74	Chippewa	Lake Superior	3	Brimley State Park

Appendix E.1. Great Lakes Beaches Monitored.

		County	Water Body		Location
	75	Chippewa	Lake Superior	4	Four Mile Beach
	76	Chippewa	St. Mary's River	5	Sherman Park
	77	Chippewa	St. Mary's River	6	Sugar Island Township Park
<u>14</u>	78	<u>Delta</u>	Lake Michigan	1	Escanaba Bathing Beach
	79	Delta	Lake Michigan	2	Gladstone Bathing Beach/Van Cleve Park
<u>15</u>	80	<u>Emmet</u>	Lake Michigan	1	Cross Village Beach
		Emmet	Lake Michigan		Mackinaw City Beach #1
	82	Emmet	Lake Michigan		Mackinaw City Beach #2
		Emmet	Lake Michigan	_	Magnus Park
		Emmet	Lake Michigan		Middle Village Park
		Emmet	Lake Michigan		Petoskey State Park
		Emmet	Lake Michigan		Readmond Township Beach
		Emmet	Lake Michigan		Sturgeon Bay Township Beach
		Emmet	Lake Michigan		Wilderness State Park
		Emmet	Lake Michigan		Zoll Street Beach
	90	Emmet	Lake Michigan	11	Zorn Park - Harbor Springs
<u>16</u>			Grand Traverse Bay-East		Bryant Park Beach
		Traverse	Grand Traverse Bay-East		Clinch Park
		Traverse	Grand Traverse Bay-West		East Bay Park (Milliken Park)
		Traverse	Grand Traverse Bay-West		Traverse City State Park
	95	Traverse	Grand Traverse Bay-West	5	West End Beach
<u>17</u>		<u>Houghton</u>	Lake Superior		Agate Beach
		Houghton	Lake Superior		Chassell Beach
		Houghton	Superior		Hancock City Beach
		Houghton	Portage Canal / Lake Superior		Houghton City Beach
		Houghton	Portage Canal / Lake Superior		Lake Linden Campground Beach
		Houghton	Portage Canal / Lake Superior		McLain State Park Beach
	102	Houghton	Superior	1	Sandy Bottom Beach/ Dollar Bay
12	103	Huron	Lake Huron	1	Bird Creek County Park
		Huron	Lake Huron		Caseville County Park
		Huron	Lake Huron		Harbor Beach City Park
		Huron	Lake Huron		Jenks County Park
		Huron	Lake Huron		Lighthouse County Park
		Huron	Lake Huron		McGraw County Park
		Huron	Lake Huron		Oak Beach County Park
		Huron	Lake Huron		Philp County Park
		Huron	Lake Huron		Port Crescent State Park - Camping Area
		Huron	Lake Huron		Port Crescent State Park - Day Use

Appendix E.1. Great Lakes Beaches Monitored.

		County	Water Body		Location
	113	Huron	Lake Huron	11	Sleeper State Park
	114	Huron	Lake Huron	12	Thompson Park
	115	Huron	Lake Huron	13	Veterans Park
<u>19</u>	116	losco	Lake Huron	1	Alabaster Township
	117	losco	Lake Huron	2	Au Sable Township Park
	118	losco	Lake Huron	3	East Tawas City Park
	119	losco	Lake Huron	4	MDOT Roadside Park - Three Mile Park
	120	losco	Lake Huron	5	Oscoda Township Beach
	121	losco	Lake Huron	6	Tawas City Park
	122	losco	Tawas Bay	7	Tawas Point State Park Campground
	123	losco	Tawas Bay	8	Tawas Point State Park-Day Use area
<u>20</u>	124	<u>Keweenaw</u>	Lake Superior	1	Eagle Harbor Beach
<u>21</u>	125	<u>Leelanau</u>	Grand Traverse Bay-West		Empire Municipal Beach
		Leelanau	Grand Traverse Bay-West		Northport Bay Marina
		Leelanau	Lake Michigan		Sleeping Bear Dunes- CR 669 Good Harbor Bay
		Leelanau	Lake Michigan		Sleeping Bear Dunes-CR 651 Good Harbor Bay
		Leelanau	Lake Michigan		Sleeping Bear Dunes-DH Day Campground
		Leelanau	Lake Michigan		Sleeping Bear Dunes-Glen Haven Beach
		Leelanau	Lake Michigan		Sleeping Bear Dunes-North Bar Lake MI Beach
	132	Leelanau	Lake Michigan	8	Suttons Bay Park
<u>22</u>		<u>Mackinac</u>	Lake Huron		Kiwanis Beach
	134	Mackinac	Lake Michigan	2	US 2 Sand Dunes Beach (East of Brevort)
<u>23</u>		Macomb	Lake St. Clair		H.C.M.A Metropolitan Beach Metropark
		Macomb	Lake St. Clair		New Baltimore Park Beach
		Macomb	Lake St. Clair		St. Clair Shores Blossom Heath Beach
	138	Macomb	Lake St. Clair	4	St. Clair Shores Memorial Park Beach
24	120	Maniatas	Laka Mishigan	- 1	Arondia Dark
<u>24</u>		Manistee Manistee	Lake Michigan		Arcadia Park Bar Lake Outlet
		Manistee	Lake Michigan Lake Michigan		Fifth Avenue Beach
		Manistee	Lake Michigan		First Street Beach
		Manistee	Lake Michigan		Magoon Creek
		Manistee	Lake Michigan		Onekama Township Beach
		Manistee	Lake Michigan		Orchard Beach State Park
		Manistee	Lake Michigan		Pierport Township Beach
		Manistee	Lake Michigan		Sundling Park
	.71				
25	142	<u>Marquette</u>	Lake Superior	1	Marquette South Beach
	. +0		_a oupono.	•	9.0.10 00411 004011

Appendix E.1. Great Lakes Beaches Monitored.

		County	Water Body		Location
	149	Marquette	Lake Superior	2	McCarty's Cove
	150	Marquette	Lake Superior	3	North Beach
	151	Marquette	Lake Superior	4	North of Picnic Rocks
	152	Marquette	Lake Superior	5	Picnic Rocks
<u>26</u>	153	<u>Mason</u>	Lake Michigan	1	Bass Lake Outlet Beach
	154	Mason	Lake Michigan	2	Buttersville Park Beach
	155	Mason	Lake Michigan	3	Ludington State Park Campground Beach
	156	Mason	Lake Michigan		South Pier Beach
	157	Mason	Lake Michigan	5	South Summit Beach - Sunset Boulevard Beach
	158	Mason	Lake Michigan	6	Stearns Park Beach
	159	Mason	Lake Michigan	7	Summit Township Beach
<u>27</u>		<u>Menominee</u>	Lake Michigan		Henes Park
	161	Menominee	Lake Michigan	2	Memorial Beach
<u>28</u>		<u>Monroe</u>	Lake Erie		Estral Beach
		Monroe	Lake Erie		Luna Pier City Beach
		Monroe	Lake Erie		Sterling State Park
	165	Monroe	Lake Erie	4	Woodland Beach
<u>29</u>		<u>Muskegon</u>	Lake Michigan	1	Bronson/Kruse Park
		Muskegon	Lake Michigan	2	Duck Lake Channel Beach
		Muskegon	Lake Michigan		Lake Harbor Park
		Muskegon	Lake Michigan		Lighthouse/Sylvan Beach
		Muskegon	Lake Michigan		Medbury Park Beach
		Muskegon	Lake Michigan		Meinert County Park
		Muskegon	Lake Michigan		Muskegon State Park
		Muskegon	Lake Michigan		Old Channel Beach
		Muskegon	Lake Michigan		P.J. Hoffmaster State Park - Campground
		Muskegon	Lake Michigan		P.J. Hoffmaster State Park - Public Beach Area
		Muskegon	Lake Michigan		Pere Marquette Park
	1//	Muskegon	Lake Michigan	12	Pioneer County Park
20	470	Occano	Laka Mishigan	1	Claybanka Tayyashin Dark
<u>30</u>		Oceana Oceana	Lake Michigan	١	Claybanks Township Park Lighthouse Beach at Silver Lake State Park
		Oceana	Lake Michigan		Mears State Park
		Oceana Oceana	Lake Michigan Lake Michigan		Stony Lake Channel
					Whiskey Creek
	102	Oceana	Stony Lake and Lake Michigan	ວ	VIIISNEY CIEEN
21	192	Ontonagon	Lake Superior	1	Ontonagon Township Park and Campground
<u>31</u>		Ontonagon Ontonagon	Lake Superior	2	Porcupine Mountains State Park- Union Bay
	104	Ontonagon	Lake Superior		orcupine Mountains State Fair- Utilion Day

Appendix E.1. Great Lakes Beaches Monitored.

		County	Water Body		Location
<u>32</u>	185	<u>Ottawa</u>	Lake Michigan	1	Grand Haven City Beach
	186	Ottawa	Lake Michigan	2	Grand Haven State Park
	187	Ottawa	Lake Michigan	3	Holland State Park
	188	Ottawa	Lake Michigan	4	Kirk Park
	189	Ottawa	Lake Michigan	5	Kouw Park
	190	Ottawa	Lake Michigan	6	North Beach Park
	191	Ottawa	Lake Michigan	7	Rosy Mound Recreation Area
	192	Ottawa	Lake Michigan	8	Tunnel Park
	193	Ottawa	Lake Michigan	9	Windsnest Park
<u>33</u>	194	Presque Isle	Lake Huron	1	Hoeft State Park-North
	195	Presque Isle	Lake Huron	2	Lakeside Park in Rogers City
	196	Presque Isle	Lake Huron	3	Presque Isle Harbor Beach
<u>34</u>	197	<u>Sanilac</u>	Lake Huron	1	Forester County Park
	198	Sanilac	Lake Huron	2	Forestville Beach
	199	Sanilac	Lake Huron	3	Lexington Beach
	200	Sanilac	Lake Huron	4	Lexington County Park
	201	Sanilac	Lake Huron	5	Port Sanilac Park
<u>35</u>	202	<u>Schoolcraft</u>	Lake Michigan	1	Roadside Park Beach
	203	Schoolcraft	Lake Michigan	2	Rogers Park-MDOT
<u>36</u>	204	St. Clair	Lake Huron	1	Burtchville Township Park
	205	St. Clair	Lake Huron	2	Chrysler Park Beach
	206	St. Clair	Lake Huron	3	Conger-Lighthouse Beach
	207	St. Clair	Lake Huron	4	Fort Gratiot County Park
		St. Clair	Lake Huron	5	Holland Road Beach
	209	St. Clair	Lake Huron	6	Jeddo Road Beach
		St. Clair	Lake Huron	7	Keewadhin Road Beach
	211	St. Clair	Lake Huron	8	Krafft Road Beach
	212	St. Clair	Lake Huron	-	Lakeport State Campground
		St. Clair			Lakeport State Park
	214	St. Clair	Lake Huron	11	Lakeside Beach
		St. Clair		12	Marine City Beach
	216	St. Clair	St. Clair River	13	Marine City Diving Area
		St. Clair	St. Clair River	14	Metcalf Road Beach
	218	St. Clair	St. Clair River	15	Washington Street Park
<u>37</u>		<u>Van Buren</u>	Lake Michigan		Covert Township Park Beach
		Van Buren	Lake Michigan	-	South Haven North Beach
		Van Buren	Lake Michigan	-	South Haven South Beach
	222	Van Buren	Lake Michigan	4	Van Buren State Park Beach

Appendix E.1. Great Lakes Beaches Monitored.

	County	Water Body		Location
<u>38</u> 22	Wayne	Detroit River	1	Belle Isle Beach
22	1 Wayne	Lake St. Clair	2	Pier Park

Appendix E.2. Great Lakes Beaches not Monitored.

		County	Water Body		Location	
<u>1</u>	1	Alcona	Lake Huron	1	Black River Public Access	
	2	Alcona	Lake Huron	2	Greenbush Township	
	3	Alcona	Lake Huron	3	Harrisville Public Access	
	4	Alcona	Lake Huron	4	Negwegon State Park	
	5	Alcona	Lake Huron	5	Public Shoreline Beach-Huron National Forest North	
	6	Alcona	Lake Huron	6	Public Shoreline Beach-Huron National Forest South	
	7	Alcona	Lake Huron	7	Sturgeon Point Park Beach	
	8	Alcona	Lake Huron		Trask Lake Road Beach	
2	9	Alger	Lake Superior	1	Au Train Beach	
	10	Alger	Lake Superior	2	Bay Furnace Recreation Area Beach	
	11	Alger	Lake Superior	3	Christmas Beach	
	12	Alger	Lake Superior	4	Grand Marais Harbor Beach	
	13	Alger	Lake Superior	5	Grand Marais Township Beach	
	14	Alger	Lake Superior	6	Hurricane Campground Beach	
	15	Alger	Lake Superior		Miners Beach	
	16	Alger	Lake Superior	8	Munising Beach	
	17	Alger	Lake Superior		Public Shoreline Beach-Au Train Bay	
	18	Alger	Lake Superior		Public Shoreline Beach-Au Train to Five Mile Pts	
		Alger	Lake Superior		Public Shoreline Beach-East County Border area	
		Alger	Lake Superior		Public Shoreline Beach-Grand Sable Dunes	
		Alger	Lake Superior		Public Shoreline-Grand Portal Point	
		Alger	Lake Superior		Public Shoreline-Sand Point to Miners Castle Point	
		Alger	Lake Superior		Rathfoot Park Beach	
		Alger	Lake Superior		Roadside Park	
	25	Alger	Lake Superior	17	Twelve-Mile Beach	
<u>3</u>		<u>Allegan</u>	Lake Michigan		Laketown Township Park	
	27	Allegan	Lake Michigan	2	Saugatuck Dunes State Park Shoreline Beach	
<u>4</u>		<u>Alpena</u>	Lake Huron		Bay View Park	
		Alpena	Lake Huron		Elcajon Bay	
		Alpena	Lake Huron		Issineke Hardwood Point	
		Alpena	Lake Huron		Negwegon State Park-Ossineke South Point	
		Alpena	Lake Huron		Ossineke Campground	
		Alpena	Lake Huron Lake Huron		Ossineke State Park	
		Alpena	Lake Huron		Partridge Point Rock Port Beach	
		Alpena	Lake Huron		Whitefish Bay	
	30	Alpena	Lake Hulon	9	vvriiteiisri bay	
			Grand Traverse Bay-			
_	27	Antrim	East	1	Petobego Pond Area	
<u>5</u>		Antrim Antrim	Lake Michigan		Antrim County Day Park North	
		Antrim	Lake Michigan		Antrim Creek Natural Area	
		Antrim	Lake Michigan		Elk Rapids Park	
		Antrim	Lake Michigan		Erickson Road	
		Antrim	Lake Michigan		Lore Road End Beach	
		Antrim	Lake Michigan		Michigan Trail	
		Antrim	Lake Michigan		Nature Preserve	
		Antrim	Lake Michigan		North Bay Shore (Conservancy)	
		Antrim	Lake Michigan		O'Dell Road	
	70	, 0101111	Lake Mierigan	10	O Doi: Noud	

Appendix E.2. Great Lakes Beaches not Monitored.

		County	Water Body		Location
	47	Antrim	Lake Michigan	11	Road Crossing near Winters Road
		-	3.0		3
6	48	Arenac	Inner Saginaw Bay	1	Augres Township Park Beach
<u>~</u>		Arenac	Inner Saginaw Bay		Booth Road Beach
		Arenac	Inner Saginaw Bay		City of Augres Public Access
		Arenac	Inner Saginaw Bay		Gordon Road Beach
		Arenac	Inner Saginaw Bay		Terrace Road
	02	71101140	Saginaw Bay Inner-		Terrade Road
	53	Arenac	Lake Huron	6	Au Sable State Forest- Greens Point
	00	71101140	Saginaw Bay-Lake		Au Cable Clate i Greet Greetie i Girt
	54	Arenac	Huron	7	Pump Station
	0-1	71101100	1101011		Tump Station
			Huron Bay / Lake		
7	55	<u>Baraga</u>	Superior	1	Arvon Township Park
<u>-</u>	55	Daraga	Keweenaw Bay / Lake		7 (1 VOIT TOWNSHIP T CITY
	56	Baraga	Superior	2	Baraga State Park
	50	Daraga	Keweenaw Bay / Lake		Baraga State Faire
	57	Baraga	Superior	3	First Sand Beach
	51	Daraga	Keweenaw Bay / Lake		1 Hot Garia Boadii
	58	Baraga	Superior	4	L'Anse Township Park
	50	Daraga	Keweenaw Bay / Lake		Ermise rownship rank
	50	Baraga	Superior	5	Second Sands Beach
		Baraga	Lake Superior		Keweenaw Bay Village Public Roadside Park
		Baraga	Lake Superior		Mouth of the Huron River
		Baraga	Lake Superior		Public Shoreline Beach-Cooper Country Huron Bay
		Baraga	Lake Superior		Public Shoreline Beach-Northwest Abbaye Peninsula
		Baraga	Lake Superior		Public Shoreline Beach-Point Abbaye
		Baraga	Lake Superior		Public Shoreline Beach-Sand Point
	03	Daraya	Lake Superior	- 11	r ublic Shoreline Beach-Sand Folia
8	66	Bay	Saginaw Bay	1	Nayanquing Point Wildlife Area
<u>o</u>	00	Бау	Saginaw Bay	<u>'</u>	Ivayanquing Foint Wilding Area
9	67	Benzie	Lake Michigan	1	Alberta Village Beach & Bluffs
<u> </u>		Benzie	Lake Michigan		County Road # 669
		Benzie	Lake Michigan		Esch Road/Otter Creek
		Benzie	Lake Michigan		Platte River Point
		Benzie	Lake Michigan		Point Betsie Lighthouse Beach
		Benzie	Lake Michigan		Zettenberg Preserve
	12	Derizie	Lake Michigan		Zetteriberg i reserve
<u>10</u>	73	Berrien	Lake Michigan	1	Galien River Park
10		Berrien	Lake Michigan		Gordon Beach
		Berrien	Lake Michigan		Grand Mere State Park- Rosemary Beach
		Berrien	Lake Michigan		Grand Mere State Park- Shoreline Beach
		Berrien	Lake Michigan		Grand Mere State Park- Waverland Beach
		Berrien	Lake Michigan		Harbert Beach
		Berrien	Lake Michigan		Mizpah Park
		Berrien	Lake Michigan		Warren Dunes State Park North
	00	Delliell	Lane michigan	0	WALLOW DUNES STATE FAIR MOITH
<u>11</u>	Ω1	Charlevoix	Lake Michigan	1	Bill Wagner Memorial Campground Beach
		Charlevoix	Lake Michigan		Cables Bay Beach
		Charlevoix	Lake Michigan		Donegal Bay
		Charlevoix	Lake Michigan		Harbor Beach
	04	Onanevoix	Lake Michigan	4	ומוטטו שכמטוו

Appendix E.2. Great Lakes Beaches not Monitored.

		County	Water Body		Location
	85	Charlevoix	Lake Michigan	5	Iron Ore Bay Beach
	86	Charlevoix	Lake Michigan	6	Mt. McSauba Beach
			<u> </u>		
<u>12</u>	87	Cheboygan	Lake Huron	1	Alexander Henry Park
	88	Cheboygan	Lake Huron	2	Cheboygen State Park- Lighthouse Point
	89	Cheboygan	Lake Huron	3	Ditta Park
	90	Cheboygan	Lake Huron	4	Huron Street Beach
	91	Cheboygan	Lake Huron	5	Mackinaw City Beach
	92	Cheboygan	Lake Huron	6	Mill Creek Public Access
	93	Cheboygan	Lake Huron		Pinewood Circle Road End Beach
		Cheboygan	Lake Huron		Roadside Park MDOT, US-23
	95	Cheboygan	Lake Huron	9	Stoney Point Road End Beach
<u>13</u>		<u>Chippewa</u>	Lake Huron		Bass Cove Beach-Drummond Island
		Chippewa	Lake Huron		Betsey Seaman Memorial Park-Drummond Island
		Chippewa	Lake Huron		Big Shoal Cove Beach
		Chippewa	Lake Huron		De Tour State Park Shoreline Beach
		Chippewa	Lake Huron		Detour Albany Beach
		Chippewa	Lake Huron		Drummond Island Township Park
		Chippewa	Lake Huron		Sand Bay Beach-Drummond Island
		Chippewa	Lake Superior		Hiawatha National Forest- Nodoway Point Area
		Chippewa	Lake Superior		Hiawatha National Forest- North of Big Pine Picnic
		Chippewa	Lake Superior		Hiawatha National Forest- Pendills Bay
		Chippewa	Lake Superior		Hiawatha National Forest- Pendills Lake
		Chippewa	Lake Superior		Hiawatha National Forest- Point Iroquois Light
		Chippewa	Lake Superior		Hiawatha National Forest- Tahquamenon Bay
		Chippewa	Lake Superior		Hiawatha National Forest- West of Salt Point
		Chippewa	Lake Superior		Public Shoreline Beach-Browns Creek Area
		Chippewa	Lake Superior		Public Shoreline Beach-Marsh Lake Area
		Chippewa	Lake Superior		Public Shoreline Beach-Northwest of Two Mile Lake
		Chippewa	Lake Superior		Public Shoreline Beach-Weatherhog Lake East Area
		Chippewa	Lake Superior		Public Shoreline Beach-Weatherhog Lake West
		Chippewa	Lake Superior		Public Shoreline Beach-West of Whitefish Point
		Chippewa	Lake Superior		Tahquamenon Falls State Park-River Mouth Unit
		Chippewa	St. Mary's River		Dunbar Park
		Chippewa	St. Mary's River		Hiawatha National Forest Woisks Boy
		Chippewa	St. Mary's River		Hiawatha National Forest- Waiska Bay
		Chippewa	St. Mary's River		Lake Superior State Forest- Munuscong Lake
		Chippewa	St. Mary's River		Public Shoreline Beach-Brush Point Public Shoreline Beach-Point Aux Frenes
		Chippewa	St. Mary's River		
		Chippewa	St. Mary's River		Public Shoreline Beach-Raber Bay stretch
	124	Chippewa	St. Mary's River	29	Wilderness Beach
1 1	105	Dolto	Laka Miahigan	4	Pig Pay Do Noo/ Fighdom Diver Dublic Access
<u>14</u>		<u>Delta</u>	Lake Michigan		Big Bay De Noc/ Fishdam River Public Access Fayette State Park
		Delta Delta	Lake Michigan		Fuller Park
		Delta Delta	Lake Michigan		Little Bay De Noc Public Beach Access
		Delta	Lake Michigan		Portage Bay Forest Campground
		Delta	Lake Michigan Lake Michigan		Public Shoreline Beach-Charboneau Point
		Delta	Lake Michigan		Public Shoreline Beach-County Road 481
	131	שפוומ	Lake Michigan		r ubile offoleline deach-county Rodu 401

Appendix E.2. Great Lakes Beaches not Monitored.

	County	Water Body		Location
132	Delta	Lake Michigan	8	Public Shoreline Beach-East Wilsey Bay
133	Delta	Lake Michigan	9	Public Shoreline Beach-Fishdam River
134	Delta	Lake Michigan	10	Public Shoreline Beach-Gilnet Haven
135	Delta	Lake Michigan	11	Public Shoreline Beach-Indian Point
136	Delta	Lake Michigan	12	Public Shoreline Beach-Indian Town Lake USFS
137	Delta	Lake Michigan	13	Public Shoreline Beach-Jacks Bluff
138	Delta	Lake Michigan	14	Public Shoreline Beach-Martin Bay
139	Delta	Lake Michigan		Public Shoreline Beach-Nahma
140	Delta	Lake Michigan	16	Public Shoreline Beach-North End of Kregg Bay
141	Delta	Lake Michigan	17	Public Shoreline Beach-North of Stonington
142	Delta	Lake Michigan	18	Public Shoreline Beach-Ogontz Bay
143	Delta	Lake Michigan	19	Public Shoreline Beach-Peninsula Point
144	Delta	Lake Michigan	20	Public Shoreline Beach-Point Detour
145	Delta	Lake Michigan	21	Public Shoreline Beach-Portage Bay
146	Delta	Lake Michigan	22	Public Shoreline Beach-Portage Peninsula
147	Delta	Lake Michigan	23	Public Shoreline Beach-St. Vital's Island
148	Delta	Lake Michigan	24	Public Shoreline Beach-USFS West Wilsey Bay
149	Delta	Lake Michigan	25	Public Shoreline Beach-West Side of Kregg Bay
150	Delta	Lake Michigan	26	Sac Bay County Park (Point)
151	Delta	Lake Michigan	27	Sac Bay County Park (West)
152	Delta	Lake Michigan	28	Twin Springs Campground and Bathing Beach
<u>15</u> 153	Emmet	Lake Michigan	1	Bliss Township Beach
154	Emmet	Lake Michigan	2	Church Beach
155	Emmet	Lake Michigan	3	Colonial Michilimamackinac State Park
156	Emmet	Lake Michigan	4	Forest Beach
157	Emmet	Lake Michigan		Petoskey Harbor
158	Emmet	Lake Michigan		The Headlands County Park
159	Emmet	Lake Michigan	7	Thorne Swift Preserve
	Emmet	Lake Michigan		Wilderness State Park-East of the Beach
	Emmet	Lake Michigan		Wilderness State Park-Sturgeon Bay
162	Emmet	Lake Michigan	10	Wilderness State Park-West of Beach
	<u>Gogebic</u>	Lake Superior		Black River Harbor Beach
	Gogebic	Lake Superior		Little Girls Point Park
	Gogebic	Lake Superior		Mouth of the Montreal River
	Gogebic	Lake Superior		Porcupine Mountain State Park-North
	Gogebic	Lake Superior		Presque Isle Beach
	Gogebic	Lake Superior		Presque Isle State Campground
169	Gogebic	Lake Superior	7	Public Shoreline Beach-West of Black River
	_			
	<u>Grand</u>			
<u>17</u> 170	<u>Traverse</u>	Grand Traverse Bay	1	Archie Park
	Grand			
171	Traverse	Grand Traverse Bay	2	Old Mission - Center Road Natural Area
	Grand			
172	Traverse	Grand Traverse Bay	3	Old Mission - MDOT Right of Way-South of M-37
	Grand			
173	Traverse	Grand Traverse Bay	4	Old Mission - Old Mission Point State Park
	Grand	Grand Traverse Bay-		
174	Traverse	East	5	Acme Roadside Park & Beach MDOT

Appendix E.2. Great Lakes Beaches not Monitored.

County	Water Body		Location
Grand	Grand Traverse Bay-		
Traverse	East	6	Acme Roadside Park (DNR)
Grand	Grand Traverse Bay-		
Traverse	East	7	Bayside Acme Township Park
Grand	Grand Traverse Bay-		
Traverse	East	8	Deep Water Point
Grand	Grand Traverse Bay-		
Traverse	East	9	East Bay Township Four Mile Road
Grand	Grand Traverse Bay-		
Traverse	East	10	Sayler Park
Grand	Grand Traverse Bay-		
Traverse	East	11	Yuba Beach
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	12	Bowers Harbor Public Access
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	13	DNR Launch/Beach Center Road
Grand	Grand Traverse Bay-		
		14	Haserot Beach
Grand	Grand Traverse Bay-		
		15	Kroupa Road Access M-22 South of Crain Hill Road
Grand	Grand Traverse Bay-		
Traverse		16	Leffingwell Point Beach
			3
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	17	Old Mission Lighthouse
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	18	Old Mission Peninsula Twp Park-East of Light House
			·
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	19	Old Mission Peninsula Twp Park-West of Light House
			·
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	20	Old Mission Road
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	21	Peninsula Volunteer Fire Station Point #2
Grand	Grand Traverse Bay-		
Traverse	Old Mission Peninsula	22	Swaney Road
Grand	Grand Traverse Bay-		·
Traverse	West	23	Mouth of Boardman
Grand	Grand Traverse Bay-		
Traverse	West	24	Power Island Bay Park
Grand	Grand Traverse Bay-		
Traverse	West	25	Rose Street Access at Peninsula Drive
	Grand Traverse Grand	Grand Traverse East Grand Grand Traverse East Grand Grand Traverse East Grand Grand Grand Traverse East Grand Grand Grand Traverse East Grand Grand Grand Grand Traverse East Grand Grand Grand Grand Grand Traverse East Grand Grand Grand Grand Grand Traverse Bay- Traverse East Grand Grand Grand Grand Grand Grand Traverse Bay- Traverse Old Mission Grand Grand Grand Grand Traverse Bay- Traverse Old Mission Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula Grand Grand Grand Traverse Bay- Traverse Old Mission Feninsula	Grand Grand Traverse Bay- Traverse East 6 Grand Grand Traverse Bay- Traverse East 7 Grand Grand Traverse Bay- Traverse East 7 Grand Grand Traverse Bay- Traverse East 8 Grand Grand Traverse Bay- Traverse East 9 Grand Grand Traverse Bay- Traverse East 10 Grand Grand Traverse Bay- Traverse East 10 Grand Grand Traverse Bay- Traverse East 11 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 12 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 13 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 14 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 15 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 16 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 17 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 18 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 19 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 20 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 20 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 20 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 21 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 21 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 22 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 24 Grand Grand Traverse Bay- Traverse Old Mission Peninsula 24 Grand Grand Traverse Bay- Traverse Ba

Appendix E.2. Great Lakes Beaches not Monitored.

		County	Water Body		Location
		Grand	Grand Traverse Bay-		
	195	Traverse	West	26	Senior Center
		Grand	Grand Traverse Bay-		
	196	Traverse	West	27	Sunset Park
<u>18</u>	197	Houghton	Lake Superior	1	Calument Waterworks Beach
		Houghton	Lake Superior		Mink Farm
	199	Houghton	Lake Superior	3	Public Shoreline Beach-Le Chance Creek
	200	Houghton	Lake Superior	4	Public Shoreline Beach-Mc Lain State Park
		Houghton	Lake Superior		Public Shoreline Beach-S. of Portage Entry
		Houghton	Lake Superior	6	Public Shoreline Beach-Southwest County Border
	203	Houghton	Lake Superior	7	White City
			Torch Lake / Portage		
	204	Houghton	Canal / Lake Superior	8	Hubbell Park
<u>19</u>		<u>Huron</u>	Lake Huron		County Road End
		Huron	Lake Huron		Geiger Road Public Access
		Huron	Lake Huron		Grindstone Public Access
		Huron	Lake Huron		Harbor Beach Marina
		Huron	Lake Huron		Helena Road End
	-	Huron	Lake Huron		Kinch Road End
		Huron	Lake Huron		Larned Road End
		Huron	Lake Huron		Lighthouse County Park-South
		Huron	Lake Huron		Mud Creek Public Acess
		Huron	Lake Huron		Stafford County Park
	215	Huron	Lake Huron	11	Wagener County Park
20	246	lacas	Lake Huron	- 1	Alabaster Township Douglas Drive Beach Use Area
<u>20</u>		losco	Lake Huron		Au Sable Point Beach
		losco	Lake Huron		Interlake Road End
		losco	Lake Huron		Lake To Lake Road
		losco	Lake Huron		Tawas Point State Park-Central
	220	10300	Lake Huron (Tawas		Tawas Folint State Faix-Central
	221	losco	Bay)	6	County Road End.
	221	10300	Lake Huron (Tawas	0	County Road End.
	222	losco	Bay)	7	Gateway Park
		10000	Day)		Caterray Farit
21	223	<u>Keweenaw</u>	Lake Superior	1	Brunette Park
		Keweenaw	Lake Superior		Cat Harbor Beach
		Keweenaw	Lake Superior		Cooper Harbor Lighthouse Complex
		Keweenaw	Lake Superior		Eagle River Beach
	-	Keweenaw	Lake Superior		Fort Wilkins State Park
		Keweenaw	Lake Superior		Fort Wilkins State Park-East
		Keweenaw	Lake Superior	7	Fort Wilkins State Park-West
		Keweenaw	Lake Superior	8	Great Sands Bay Beach
	231	Keweenaw	Lake Superior		Mouth of the Gratiot River Beach
		Keweenaw	Lake Superior		Point Isabelle Beach
		Keweenaw	Lake Superior	11	Public Shoreline Beach-Big Traverse Bay
		Keweenaw	Lake Superior		Public Shoreline Beach-Gay Park

Appendix E.2. Great Lakes Beaches not Monitored.

Lake Superior at Bete de Gris Bay			County	Water Body		Location
Leelanau Lake Michigan 1 Bay Front Park Jeelanau Lake Michigan 3 Cathead Bay, Leelanau State Park Leelanau Lake Michigan 3 Cathead Bay, Leelanau State Park Leelanau Lake Michigan 4 Cedar Street Beach Jeelanau Lake Michigan 5 Christmas Cove 6 Elimwood/Greilikville Park & Beach Jeelanau Lake Michigan 8 Gils Pier Jeelanau West 9 Grand Traverse Bay- Jeelanau West 10 Graham Green Park Jeelanau West 11 Hendryx County Roadside Park Jeelanau Lake Michigan 14 Leland Harbor Jeelanau Lake Michigan 15 Mozor Jeelanau Jeela				Lake Superior at Bete		
Grand Traverse Bay- 2 Boughy Park & Beach 3 Cathead Bay, Leelanau State Park 4 Cedar Street Beach 4 Ceda		235	Keweenaw	de Gris Bay	13	Bete de Gris Beach
Grand Traverse Bay- 2 Boughy Park & Beach 3 Cathead Bay, Leelanau State Park 4 Cedar Street Beach 4 Ceda						
231 Leelanau Lake Michigan 3 Cathead Bay. Leelanau State Park 239 Leelanau Lake Michigan 4 Cedar Street Beach 240 Leelanau Lake Michigan 6 Elmwood/Greliikville Park & Beach 241 Leelanau Lake Michigan 7 G. Marsten Dame Marina 242 Leelanau Lake Michigan 8 Gils Pier 243 Leelanau Lake Michigan 9 Grand Traverse Bay- 244 Leelanau West 9 Glen Arbor/Manitou Boulevard Beach 245 Leelanau West 10 Graham Green Park 246 Leelanau West 11 Hendryx County Roadside Park 247 Leelanau West 11 Hendryx County Roadside Park 248 Leelanau West 12 Lake Michigan 14 Leeland Harbor 249 Leelanau West 13 Leelanau State Park, Lighthouse 249 Leelanau West 14 Leeland Harbor 250 Leelanau Lake Michigan 16 MODT Roadside Park & Beach 251 Leelanau Lake Michigan 17 MODT Roadside Park & Beach 252 Leelanau Lake Michigan 18 North Bar 253 Leelanau Lake Michigan 18 North Bar 254 Leelanau Lake Michigan 19 North Street Beach 255 Leelanau Grand Traverse Bay- 256 Leelanau Grand Traverse Bay- 257 Leelanau Grand Traverse Bay- 258 Leelanau Grand Traverse Bay- 259 Leelanau Lake Michigan 22 Northport 5th Street Beach 260 Leelanau Lake Michigan 22 Northport 5th Street Beach 261 Leelanau Lake Michigan 22 Northport 5th Street Beach 262 Leelanau Lake Michigan 25 Peterson Park 263 Leelanau Lake Michigan 26 Reynolds Street Beach 264 Leelanau Lake Michigan 26 Reynolds Street Beach 265 Leelanau Lake Michigan 27 Smith Street Beach 266 Leelanau Lake Michigan 27 Smith Street Beach 267 Leelanau Lake Michigan 27 Smith Street Beach 268 Leelanau Lake Michigan 27 Smith Street Beach 269 Leelanau Lake Michigan 27 Smith Street Beach 260 Leelanau Lake Michigan 27 Smith Street Beach 261 Leelanau Lake Michigan 27 Smith Street Beach 262 Leelanau Grand Traverse Bay- 263 Leelanau Grand Traverse Bay- 264 Leelanau Grand Traverse Bay- 265 Leelanau Grand Traverse Bay- 2666 Leelanau Grand Traverse Bay- 267 Leelanau Grand Traverse Bay- 2687 Leelanau Grand Traverse Bay- 2688 Leelanau Grand Traverse Bay- 2789 Leelanau Grand Traverse Bay- 2890 Suttons Bay Marina Park & Beach South 2800 Suttons Bay	<u>22</u>	236	<u>Leelanau</u>	Lake Michigan	1	Bay Front Park
Leelanau Lake Michigan 4 Codar Street Beach Grand Traverse Bay- West 5 Christmas Cove Leelanau Lake Michigan 6 Elmwood/Greilikville Park & Beach Grand Traverse Bay- West 7 G. Marsten Dame Marina Leelanau West 9 Gils Pier Grand Traverse Bay- West 9 Gils Pier Leelanau West 9 Grand Traverse Bay- West 10 Graham Green Park Grand Traverse Bay- West 11 Hendryx County Roadside Park Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- West 12 Leelanau State Park, Lighthouse Leelanau West 13 Leelanau State Park, Lighthouse Leelanau West 14 Leelanau State Park & Beach Grand Traverse Bay- West 15 M-22 at M-72 Public Access Grand Traverse Bay- West 16 MDOT Roadside Park & Beach Leelanau Lake Michigan 17 MDOT Roadside Park & Beach Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 5th Street Beach Grand Traverse Bay- West 21 Northport 5th Street Beach Grand Traverse Bay- West 22 Northport 7th Street Beach Grand Traverse Bay- West 23 Northport 1 Street Beach Grand Traverse Bay- West 24 Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport 1 Street Beach Grand Traverse Bay- West 29 Northport Street Beach Grand Traverse Ba				Grand Traverse Bay-		
Leelanau Lake Michigan 4 Cedar Street Beach 240 Leelanau West 5 Christmas Cove 241 Leelanau Lake Michigan 6 Elmwood/Greilikville Park & Beach 242 Leelanau Lake Michigan 7 G. Marsten Dame Marina 243 Leelanau Lake Michigan 8 Gils Pier 244 Leelanau West 9 Glen Arbor/Manitou Boulevard Beach 245 Leelanau West 10 Graham Green Park 246 Leelanau West 11 Hendryx County Roadside Park 247 Leelanau West 12 Lake Street Beach, Glen Arbor 248 Leelanau West 13 Leelanau State Park, Lighthouse 249 Leelanau Lake Michigan 14 Leland Harbor 250 Leelanau Lake Michigan 17 MDOT Roadside Park & Beach 251 Leelanau Lake Michigan 18 North Bar 252 Leelanau Lake Michigan 19 North Street Beach 253 Leelanau Lake Michigan 19 North Street Beach 254 Leelanau Lake Michigan 19 North Street Beach 255 Leelanau Lake Michigan 19 North Street Beach 266 Leelanau Lake Michigan 22 Northport 7th Street Beach 267 Celanau Lake Michigan 25 Peterson Park 268 Leelanau Lake Michigan 26 Reynolds Street Beach 269 Leelanau Lake Michigan 27 Porthport 7th Street Beach 260 Leelanau Lake Michigan 27 Porthport 7th Street Beach 261 Leelanau Lake Michigan 27 Porthport 7th Street Beach 262 Leelanau Lake Michigan 27 Porthport 7th Street Beach 263 Leelanau Lake Michigan 26 Reynolds Street Beach 264 Leelanau Lake Michigan 27 Porthport 7th Street Beach 265 Leelanau Lake Michigan 27 Porthport 7th Street Beach 266 Leelanau Lake Michigan 27 Porthport 7th Street Beach 267 Porthport 7th Street Beach 268 Leelanau Lake Michigan 26 Reynolds Street Beach Northport 269 Leelanau Lake Michigan 27 Porthport Park 260 Leelanau Lake Michigan 27 Porthport Park 261 Leelanau Lake Michigan 29 Poterson Park 262 Leelanau Lake Michigan 29 Poterson Park 263 Leelanau Lake Michigan 29 Poterson Park 264 Leelanau Lake Michigan 29 Poterson Park 265 Leelanau Lake Michigan 29 Poterson Park 266 Leelanau Lake Michigan 29 Poterson Park 267 Leelanau Lake Michigan 29 Poterson Park 268 Leelanau Lake Michigan 29 Poterson Park 269 Leelanau Lake Michigan 29 Poterson Park 270 S		237	Leelanau	West	2	Boughy Park & Beach
Leelanau Lake Michigan 4 Cedar Street Beach 240 Leelanau West 5 Christmas Cove 241 Leelanau Lake Michigan 6 Elmwood/Greilikville Park & Beach 242 Leelanau Lake Michigan 7 G. Marsten Dame Marina 243 Leelanau Lake Michigan 8 Gils Pier 244 Leelanau West 9 Glen Arbor/Manitou Boulevard Beach 245 Leelanau West 10 Graham Green Park 246 Leelanau West 11 Hendryx County Roadside Park 247 Leelanau West 12 Lake Street Beach, Glen Arbor 248 Leelanau West 13 Leelanau State Park, Lighthouse 249 Leelanau Lake Michigan 14 Leland Harbor 250 Leelanau Lake Michigan 17 MDOT Roadside Park & Beach 251 Leelanau Lake Michigan 18 North Bar 252 Leelanau Lake Michigan 19 North Street Beach 253 Leelanau Lake Michigan 19 North Street Beach 254 Leelanau Lake Michigan 19 North Street Beach 255 Leelanau Lake Michigan 19 North Street Beach 266 Leelanau Lake Michigan 22 Northport 7th Street Beach 267 Celanau Lake Michigan 25 Peterson Park 268 Leelanau Lake Michigan 26 Reynolds Street Beach 269 Leelanau Lake Michigan 27 Porthport 7th Street Beach 260 Leelanau Lake Michigan 27 Porthport 7th Street Beach 261 Leelanau Lake Michigan 27 Porthport 7th Street Beach 262 Leelanau Lake Michigan 27 Porthport 7th Street Beach 263 Leelanau Lake Michigan 26 Reynolds Street Beach 264 Leelanau Lake Michigan 27 Porthport 7th Street Beach 265 Leelanau Lake Michigan 27 Porthport 7th Street Beach 266 Leelanau Lake Michigan 27 Porthport 7th Street Beach 267 Porthport 7th Street Beach 268 Leelanau Lake Michigan 26 Reynolds Street Beach Northport 269 Leelanau Lake Michigan 27 Porthport Park 260 Leelanau Lake Michigan 27 Porthport Park 261 Leelanau Lake Michigan 29 Poterson Park 262 Leelanau Lake Michigan 29 Poterson Park 263 Leelanau Lake Michigan 29 Poterson Park 264 Leelanau Lake Michigan 29 Poterson Park 265 Leelanau Lake Michigan 29 Poterson Park 266 Leelanau Lake Michigan 29 Poterson Park 267 Leelanau Lake Michigan 29 Poterson Park 268 Leelanau Lake Michigan 29 Poterson Park 269 Leelanau Lake Michigan 29 Poterson Park 270 S		238	Leelanau	Lake Michigan	3	Cathead Bay, Leelanau State Park
Leelanau		239	Leelanau	Lake Michigan		
Leelanau Lake Michigan 6 Elmwood/Greilikville Park & Beach Grand Traverse Bay- West 7 G. Marsten Dame Marina Leelanau Lake Michigan 8 Gils Pier Grand Traverse Bay- West 9 Gilen Arbor/Manitou Boulevard Beach Grand Traverse Bay- Leelanau West 10 Graham Green Park Grand Traverse Bay- Leelanau West 11 Hendryx County Roadside Park Grand Traverse Bay- Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- West 13 Leelanau State Park, Lighthouse Leelanau West 15 M-22 at M-72 Public Access Grand Traverse Bay- Leelanau Lake Michigan 17 MDOT Roadside Park & Beach Saleelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Leelanau Grand Traverse Bay- Leelanau Lake Michigan 19 North Street Beach Seleanau Lake Michigan 20 Northport 5th Street Beach Seleanau Grand Traverse Bay- Leelanau Lake Michigan 19 North Street Beach Seleanau Grand Traverse Bay- Leelanau Grand Traverse Bay- Leelanau Lake Michigan 20 Northport 5th Street Beach Seleanau Grand Traverse Bay- Leelanau Grand Traverse Bay- Leelanau Grand Traverse Bay- Leelanau Grand Traverse Bay- Seleanau Grand Traverse Bay- Leelanau Lake Michigan 22 Northport 5th Street Beach Seleanau Lake Michigan 25 Northport 7th Street Beach Seleanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Seleanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 29 Suttons Bay Public Launch and Beach				Grand Traverse Bay-		
Grand Traverse Bay-West Frame of the process of		240	Leelanau	West	5	Christmas Cove
Leelanau West F.G. Marsten Dame Marina		241	Leelanau	Lake Michigan	6	Elmwood/Greilikville Park & Beach
Leelanau Lake Michigan 8 Gils Pier Grand Traverse Bay- West 9 Glen Arbor/Manitou Boulevard Beach Grand Traverse Bay- Leelanau West 10 Grahm Green Park Grand Traverse Bay- Leelanau West 11 Hendryx County Roadside Park Grand Traverse Bay- Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- Leelanau Lake Michigan 14 Leland Harbor Grand Traverse Bay- Leelanau West 15 M-22 at M-72 Public Access Grand Traverse Bay- Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D 253 Leelanau Lake Michigan 19 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 4th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport 5th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Northport Grand Traverse Bay- West 28 Stoney Point County Roadside Park Leelanau Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- West 28 Stoney Point County Roadside Park Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 29 Suttons Bay Public Launch and Beach Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach				Grand Traverse Bay-		
Grand Traverse Bay-West Grand Traverse Bay-West Grand Traverse Bay-West 10 Graham Green Park		242	Leelanau		7	G. Marsten Dame Marina
Cand Traverse Bay- West Grand Traverse Bay- West Grand Traverse Bay- West 10 Graham Green Park		243	Leelanau	Lake Michigan	8	Gils Pier
Leelanau West 10 Graham Green Park Leelanau West 11 Hendryx County Roadside Park Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- West 13 Leelanau State Park, Lighthouse Leelanau Lake Michigan 14 Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Leelanau Lake Michigan 20 Northport 5th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Leelanau Lake Michigan 29 Street Beach Leelanau Lake Michigan 20 Reynolds Street Beach Leelanau Lake Michigan 20 Reynolds Street Beach Leelanau Lake Michigan 21 Northport 5th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach						
Leelanau West 11 Hendryx County Roadside Park Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- Leelanau Lake Michigan 14 Leland Harbor Grand Traverse Bay- Leelanau West 15 M-22 at M-72 Public Access Grand Traverse Bay- Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D Leelanau Lake Michigan 19 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 4th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport Th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Grand Traverse Bay- Leelanau Lake Michigan 26 Reynolds Street Beach Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Grand Traverse Bay- Leelanau Lake Michigan 26 Reynolds Street Beach Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Grand Traverse Bay- Leelanau Lake Michigan 26 Reynolds Street Beach Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach		244	Leelanau	_	9	Glen Arbor/Manitou Boulevard Beach
Leelanau West 10 Graham Green Park				Grand Traverse Bay-		
Leelanau		245	Leelanau		10	Graham Green Park
Leelanau West 11 Hendryx County Roadside Park Grand Traverse Bay- West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- Leelanau West 13 Leelanau State Park, Lighthouse Leelanau Lake Michigan 14 Leland Harbor Grand Traverse Bay- West 15 M-22 at M-72 Public Access Grand Traverse Bay- West 16 MDOT Roadside Park & Beach Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 4th Street Beach Leelanau Lake Michigan 22 Northport 5th Street Beach Grand Traverse Bay- West 23 Northport 7th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Leelanau Lake Michigan 27 Smith Street Beach Leelanau Lake Michigan 28 Stoney Point County Roadside Park Grand Traverse Bay- West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- West 29 Suttons Bay Public Launch and Beach Grand Traverse Bay- West 29 Suttons Bay Public Launch and Beach Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach				Grand Traverse Bay-		
Grand Traverse Bay- West Leelanau West 13 Leelanau State Park, Lighthouse Leelanau Lake Michigan 14 Leland Harbor Grand Traverse Bay- West 15 M-22 at M-72 Public Access Grand Traverse Bay- Leelanau Lake Michigan 17 MDOT Roadside Park & Beach Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 4th Street Beach Leelanau Lake Michigan 21 Northport 5th Street Beach Grand Traverse Bay- West 22 Northport 7th Street Beach Leelanau Lake Michigan 22 Northport Haserot Beach, Rose Street Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Crand Traverse Bay- West 28 Stoney Point County Roadside Park Grand Traverse Bay- West 29 Suttons Bay Public Launch and Beach Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach		246	Leelanau		11	Hendryx County Roadside Park
Leelanau West 12 Lake Street Beach, Glen Arbor Grand Traverse Bay- Leelanau Lake Michigan 14 Leland Harbor Grand Traverse Bay- Leelanau West 15 M-22 at M-72 Public Access Grand Traverse Bay- Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Leelanau West 20 Northport 4th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau Lake Michigan 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- West 28 Stoney Point County Roadside Park Grand Traverse Bay- West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach		, ,		, ,		
Canal Content of Cana		247	· · · · · · · · · · · · · · · · · · ·		Lake Street Beach, Glen Arbor	
248 Leelanau West 13 Leelanau State Park, Lighthouse 249 Leelanau Lake Michigan 14 Leland Harbor 250 Leelanau West 15 M-22 at M-72 Public Access Grand Traverse Bay- West 15 M-22 at M-72 Public Access Grand Traverse Bay- 251 Leelanau West 16 MDOT Roadside Park & Beach 252 Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D 253 Leelanau Lake Michigan 19 North Bar 254 Leelanau Lake Michigan 19 North Street Beach 255 Leelanau West 20 Northport 4th Street Beach 256 Leelanau Grand Traverse Bay- 257 Leelanau Grand Traverse Bay- 258 Leelanau Lake Michigan 22 Northport 7th Street Beach 259 Leelanau Lake Michigan 24 Omena Beach & Park 260 Leelanau Lake Michigan 25 Peterson Park 261 Leelanau Lake Michigan 26 Reynolds Street Beach 262 Leelanau West 27 Smith Street Beach 263 Leelanau West 28 Stoney Point County Roadside Park 264 Leelanau West 29 Suttons Bay Public Launch and Beach 265 Grand Traverse Bay- 265 Leelanau West 30 Suttons Bay Public Launch and Beach				Grand Traverse Bay-		,
Leelanau Lake Michigan 14 Leland Harbor Grand Traverse Bay- West 15 M-22 at M-72 Public Access Grand Traverse Bay- West 16 MDOT Roadside Park & Beach 252 Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D 253 Leelanau Lake Michigan 18 North Bar 254 Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 4th Street Beach 255 Leelanau Grand Traverse Bay 21 Northport 5th Street Beach 256 Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- 258 Leelanau Lake Michigan 22 Northport Haserot Beach, Rose Street 259 Leelanau Lake Michigan 24 Omena Beach & Park 260 Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach 261 Leelanau Lake Michigan 27 Smith Street Beach Grand Traverse Bay- 262 Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- 263 Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- 264 Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- 265 Grand Traverse Bay- 266 Grand Traverse Bay- 267 Leelanau West 30 Suttons Bay Public Launch and Beach		248	Leelanau	,	13	Leelanau State Park, Lighthouse
Grand Traverse Bay- West Grand Traverse Bay- Leelanau West 16 MDOT Roadside Park & Beach Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D 18 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- West 20 Northport 4th Street Beach Leelanau Lake Michigan 21 Northport 5th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau West 23 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Grand Traverse Bay- Leelanau Lake Michigan 26 Reynolds Street Beach Grand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Grand Traverse Bay- Leelanau Grand Traverse Bay- West 28 Stoney Point County Roadside Park Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- West 30 Suttons Bay Public Launch and Beach						
250 Leelanau West 15 M-22 at M-72 Public Access Grand Traverse Bay- West 16 MDOT Roadside Park & Beach Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D 253 Leelanau Lake Michigan 19 North Bar 254 Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- Leelanau Grand Traverse Bay 21 Northport 4th Street Beach 255 Leelanau Lake Michigan 22 Northport 7th Street Beach 256 Leelanau Lake Michigan 22 Northport 7th Street Beach 257 Leelanau Lake Michigan 24 Omena Beach & Park 258 Leelanau Lake Michigan 25 Peterson Park 260 Leelanau Lake Michigan 26 Reynolds Street Beach 261 Leelanau Lake Michigan 27 Smith Street Beach 262 Leelanau Cake Michigan 27 Smith Street Beach Northport 263 Leelanau Cake Michigan 28 Stoney Point County Roadside Park 264 Leelanau Grand Traverse Bay- 265 Leelanau West 29 Suttons Bay Marina Park & Beach South 266 Grand Traverse Bay- 267 Leelanau West 30 Suttons Bay Public Launch and Beach 268 Grand Traverse Bay- 269 Leelanau West 30 Suttons Bay Public Launch and Beach						
Grand Traverse Bay- Leelanau West Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D		250	Leelanau		15	M-22 at M-72 Public Access
Leelanau West 16 MDOT Roadside Park & Beach Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- Leelanau Grand Traverse Bay 20 Northport 4th Street Beach Leelanau Lake Michigan 22 Northport 5th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau Lake Michigan 23 Northport Th Street Beach Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Uset 30 Suttons Bay Public Launch and Beach				Grand Traverse Bay-		
Leelanau Lake Michigan 17 MDOT Roadside Park & Beach M-22 N of Cherry Bend D Leelanau Lake Michigan 18 North Bar Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- Leelanau Grand Traverse Bay 21 Northport 5th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau Lake Michigan 22 Northport The Street Beach Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach		251	Leelanau	-	16	MDOT Roadside Park & Beach
Leelanau Lake Michigan 254 Leelanau Lake Michigan Grand Traverse Bay- Leelanau West 20 Northport 4th Street Beach Leelanau Grand Traverse Bay 21 Northport 5th Street Beach Leelanau Lake Michigan Grand Traverse Bay- Leelanau Lake Michigan Corand Traverse Bay- Leelanau Lake Michigan Leelanau Lake Michigan 22 Northport 7th Street Beach Corand Traverse Bay- Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Corand Traverse Bay- Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West Corand Traverse Bay- Corand Traverse Bay- Corand Trave		252	Leelanau	Lake Michigan		
Leelanau Lake Michigan 19 North Street Beach Grand Traverse Bay- Leelanau West 20 Northport 4th Street Beach Leelanau Grand Traverse Bay 21 Northport 5th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- Leelanau West 23 Northport Haserot Beach, Rose Street Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach						
Grand Traverse Bay- Leelanau West 20 Northport 4th Street Beach 256 Leelanau Grand Traverse Bay 21 Northport 5th Street Beach 257 Leelanau Lake Michigan 22 Northport 7th Street Beach Grand Traverse Bay- 258 Leelanau West 23 Northport Haserot Beach, Rose Street 259 Leelanau Lake Michigan 24 Omena Beach & Park 260 Leelanau Lake Michigan 25 Peterson Park 261 Leelanau Lake Michigan 26 Reynolds Street Beach 262 Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- 263 Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- 264 Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- 265 Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- 266 Grand Traverse Bay- 267 Leelanau West 30 Suttons Bay Public Launch and Beach					19	North Street Beach
Leelanau West 20 Northport 4th Street Beach Leelanau Grand Traverse Bay 21 Northport 5th Street Beach Leelanau Lake Michigan 22 Northport 7th Street Beach Leelanau West 23 Northport Haserot Beach, Rose Street Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Uses August 29 Suttons Bay Public Launch and Beach Grand Traverse Bay- Uses August 29 Suttons Bay Public Launch and Beach Grand Traverse Bay- Uses August 29 Suttons Bay Public Launch and Beach Grand Traverse Bay-				<u> </u>		
Leelanau Grand Traverse Bay 21 Northport 5th Street Beach		255	Leelanau	-	20	Northport 4th Street Beach
Grand Traverse Bay- Ueelanau West 23 Northport Haserot Beach, Rose Street Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Carand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Ueelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Carand Traverse Bay- C		256	Leelanau	Grand Traverse Bay		
Grand Traverse Bay- Ueelanau West 23 Northport Haserot Beach, Rose Street Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Carand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Ueelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Carand Traverse Bay- C		257	Leelanau	Lake Michigan	22	Northport 7th Street Beach
Leelanau West 23 Northport Haserot Beach, Rose Street Leelanau Lake Michigan 24 Omena Beach & Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach				Grand Traverse Bay-		
Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 25 Peterson Park Leelanau Lake Michigan 26 Reynolds Street Beach Leelanau Lake Michigan 27 Smith Street Beach Northport Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach		258	Leelanau		23	Northport Haserot Beach, Rose Street
260LeelanauLake Michigan25 Peterson Park261LeelanauLake Michigan26 Reynolds Street Beach262LeelanauLake Michigan27 Smith Street Beach Northport263LeelanauWest28 Stoney Point County Roadside Park264Grand Traverse Bay-Grand Traverse Bay-265LeelanauWest29 Suttons Bay Marina Park & Beach South265Grand Traverse Bay-30 Suttons Bay Public Launch and BeachGrand Traverse Bay-Grand Traverse Bay-				Lake Michigan		
261LeelanauLake Michigan26 Reynolds Street Beach262LeelanauLake Michigan27 Smith Street Beach Northport263Grand Traverse Bay-28 Stoney Point County Roadside Park264Grand Traverse Bay-29 Suttons Bay Marina Park & Beach South265Grand Traverse Bay-30 Suttons Bay Public Launch and Beach265Grand Traverse Bay-						
263 Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Ueelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Ueelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay- Ueelanau West 30 Suttons Bay Public Launch and Beach		261	Leelanau	Ţ.	26	Reynolds Street Beach
Grand Traverse Bay- Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay-		262	Leelanau	Lake Michigan	27	Smith Street Beach Northport
263 Leelanau West 28 Stoney Point County Roadside Park Grand Traverse Bay- 264 Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- 265 Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay-				Ţ.		·
Grand Traverse Bay- Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay-		263	Leelanau	-	28	Stoney Point County Roadside Park
264 Leelanau West 29 Suttons Bay Marina Park & Beach South Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay-		-				
Grand Traverse Bay- Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay-		264	Leelanau	-	29	Suttons Bay Marina Park & Beach South
265 Leelanau West 30 Suttons Bay Public Launch and Beach Grand Traverse Bay-						·
Grand Traverse Bay-		265	Leelanau		30	Suttons Bay Public Launch and Beach
· · · · · · · · · · · · · · · · · · ·		-			-	•
		266	Leelanau		31	Suttons Bay South Shore Park

Appendix E.2. Great Lakes Beaches not Monitored.

	County	Water Body		Location		
		Grand Traverse Bay-				
267	Leelanau	West	32	Thompson Stree Beach		
<u>23</u> 268	<u>Luce</u>	Lake Superior	1	Blind Sucker River # 1		
269	Luce	Lake Superior	2	Blind Sucker River # 2		
270	Luce	Lake Superior	3	Crisp Point Light House		
271	Luce	Lake Superior	4	Lake Superior Campground Beach		
	Luce	Lake Superior	5	Mouth of the Two Hearted River Campground		
273	Luce	Lake Superior		Public Shoreline Beach-Blind Sucker Flooding Area		
274	Luce	Lake Superior	7	Public Shoreline Beach-Coast Guard Line Road		
275	Luce	Lake Superior		Public Shoreline Beach-County Rd 407		
276	Luce	Lake Superior		Public Shoreline Beach-County Rd 412 and Crisp Pt		
277	Luce	Lake Superior		Public Shoreline Beach-Little Sucker/Two Hearted R		
278	Luce	Lake Superior	11	Public Shoreline Beach-Three Mile Creek Area		
279	Luce	Lake Superior		Public Shoreline Beach-West County Border Beach		
280	Luce	Lake Superior		Unnamed Road End #1		
281	Luce	Lake Superior		Unnamed Road End #2		
	Luce	Lake Superior		Unnamed Road End #3		
283	Luce	Muskallonge Lake	16	Muskallonge Lake SFC		
	Mackinac Mackinac	Lake Huron		American Legion Memorial Park		
	Mackinac	Lake Huron		Antoine Road End		
	Mackinac	Lake Huron		Boot Island		
	Mackinac	Lake Huron	4	Coast Guard Pier Boat Launch and City Park		
	Mackinac	Lake Huron		Foley Creek Campground		
	Mackinac	Lake Huron		Government Island-Hiawatha National Forest		
	Mackinac	Lake Huron		Harbour Light		
	Mackinac	Lake Huron		Hazelton Road End		
	Mackinac	Lake Huron		Hiawatha National Forest- Carp River Access		
	Mackinac	Lake Huron		Horseshoe Bay Wilderness-North		
	Mackinac	Lake Huron		Horseshoe Bay Wilderness-South		
	Mackinac	Lake Huron		Straits State Park		
	Mackinac	Lake Michigan		Big Knob State Forest Campground		
	Mackinac	Lake Michigan		Black River State Forest Campground		
	Mackinac	Lake Michigan		Epoufette Bay Campground		
	Mackinac	Lake Michigan		Hog Island Campground		
	Mackinac	Lake Michigan		Lake Michigan US-2 Campground Beach		
	Mackinac	Lake Michigan		MDOT Overlook		
	Mackinac	Lake Michigan		MDOT Roadside Park on US 2		
	Mackinac	Lake Michigan		Mouth of Cut River Roadside Beach		
	Mackinac	Lake Michigan		Naubinway Bay Access		
	Mackinac	Lake Michigan		Public Shoreline Beach #2-Little Hog Island area		
	Mackinac	Lake Michigan		Public Shoreline Beach #2-Manitou Paymen Highbanks		
	Mackinac	Lake Michigan		Public Shoreline Beach #3-Little Hog Island area		
	Mackinac	Lake Michigan		Public Shoreline Beach #4-Little Hog Island area		
	Mackinac	Lake Michigan		Public Shoreline Beach #5-Little Hog Island area		
	Mackinac	Lake Michigan		Public Shoreline Beach-Epoufette Bay		
	Mackinac	Lake Michigan		Public Shoreline Beach-Fox Point Area		
	Mackinac	Lake Michigan		Public Shoreline Beach-Little Hog Island area		
	Mackinac	Lake Michigan		Public Shoreline Beach-Manitou Paymen Highbanks		
314	Mackinac	Lake Michigan	31	Public Shoreline Beach-MDNR Matrix Point Area		

Appendix E.2. Great Lakes Beaches not Monitored.

		County	Water Body		Location
	315	Mackinac	Lake Michigan	32	Public Shoreline Beach-Morean Township, Section 25
	316	Mackinac	Lake Michigan	33	Public Shoreline Beach-Naubinway Area
	317	Mackinac	Lake Michigan	34	Public Shoreline Beach-Pointe Aux Chenes Bay
	318	Mackinac	Lake Michigan	35	Public Shoreline Beach-Seiners Point
	319	Mackinac	Lake Michigan	36	Public Shoreline Beach-South of Brevort River
	320	Mackinac	Lake Michigan	37	Public Shoreline Beach-State Forest Matrix Point
	321	Mackinac	Lake Michigan	38	Sand Point
	322	Mackinac	Lake Michigan	39	State Roadside Park Beach
			•		
<u>25</u>	323	Manistee	Lake Michigan	1	Portage Park
			•		
<u> 26</u>	324	<u>Marquette</u>	Lake Superior	1	Public Shoreline Beach-Big Huron River
	325	Marquette	Lake Superior	2	Public Shoreline Beach-Little Presque Isle
<u>27</u>	326	<u>Mason</u>	Lake Michigan	1	Ludington State Park Public Shoreline Beach North
	327	Mason	Lake Michigan	2	Ludington State Park Public Shoreline Beach South
	328	Mason	Lake Michigan	3	Manistee National Forest Campground Beach
	329	Mason	Lake Michigan	4	Manistee National Forest-Public Shoreline Beach N
	330	Mason	Lake Michigan	5	Manistee National Forest-Public Shoreline Beach S
	331	Mason	Lake Michigan	6	Pere Marquette Harbor
<u>28</u>	332	<u>Menominee</u>	Lake Michigan	1	Airport Park
	333	Menominee	Lake Michigan	2	Fox Park
	334	Menominee	Lake Michigan	3	Klienke Park
	335	Menominee	Lake Michigan	4	Public Shoreline Beach-Cedar River
	336	Menominee	Lake Michigan	5	Public Shoreline Beach-Fox village
	337	Menominee	Lake Michigan	6	Wells State Park
<u>29</u>	338	<u>Muskegon</u>	Lake Michigan	1	Muskegon State Park-Shoreline Beach North
<u>30</u>	339	<u>Oceana</u>	Lake Michigan	1	Cedar Point County Park
	340	Oceana	Lake Michigan	2	Silver Lake State Park
			Silver Lake-Lake		
	341	Oceana	Michigan	3	Silver Creek Channel
<u>31</u>		<u>Ontonagon</u>	Lake Superior	1	Green Park
		Ontonagon	Lake Superior	2	Gull Point Beach
		Ontonagon	Lake Superior		Mouth of the Big Iron River Beach
		Ontonagon	Lake Superior		Porcupine Mountain State Park
		Ontonagon	Lake Superior		Porcupine Mountains Wilderness State Park-West
		Ontonagon	Lake Superior		Public Shoreline Beach-Misery Bay
		Ontonagon	Lake Superior		Public Shoreline Beach-Sleeping Bay
		Ontonagon	Lake Superior		Public Shoreline Beach-Wolf Point
	350	Ontonagon	Lake Superior	9	Union Bay Beach
_					
<u>32</u>		<u>Ottawa</u>	Lake Michigan		Mountain Beach
	352	Ottawa	Lake Michigan	2	P.J. Hoffmaster State Park- Shoreline Beach
		<u>Presque</u>			
<u>33</u>	353	<u>Isle</u>	Lake Huron	1	40 Mile Point Park

Appendix E.2. Great Lakes Beaches not Monitored.

		County	Water Body		Location	
	254	Presque Isle	Laka Huran	2	Ball Diamond Park	
	354	Fresque isie	Lake Hulon		Dali Diamond Fark	
	355	Presque Isle	Lake Huron	3	Bell Bay	
	256	Presque Isle	Laka Huran	1	Evergreen Beach	
	330	Flesque isie	Lake Hulon	4	Evergreen Beach	
	357	Presque Isle	Lake Huron	5	Golden Beach	
	358	Presque Isle	Lake Huron	6	Grace Access Site	
	359	Presque Isle	Lake Huron	7	Hammond Bay Access Site	
	360	Presque Isle	Lake Huron	8	Hammond Bay Harbor	
		Presque Isle			Hoeft State Park-South	
	301	i resque isie	Lake Hulon	3	Hoert State Fair-South	
	362	Presque Isle	Lake Huron	10	Lakeside Park Beach	
	363	Presque Isle	Lake Huron	11	Lakeview Park Beach	
	004	Danasana lala	Laka Ukuan	40	Maritan Danah	
	364	Presque Isle	Lake Huron	12	Manitou Beach	
	365	Presque Isle	Lake Huron	13	New Lighthouse Park	
	366	Presque Isle	Lake Huron	14	Presque Isle Harbor	
	367	Presque Isle	Lake Huron	15	Public Shoreline Beach-False Presque Isle Harbor	
	368	Presque Isle	Lake Huron	16	Seagull Point Park	
	369	Presque Isle	I ake Huron	17	Thompson's Harbor State Park	
		·			Themposite transcription of the control of the cont	
	370	Presque Isle	Lake Huron	18	US 23 Hammond Bay	
	371	Presque Isle	Lake Huron	19	US 23 Roger City	
3/1	372	<u>Sanilac</u>	Lake Huron	1	Birch Beach	
<u>54</u>		Sanilac	Lake Huron		Birch Beach Middle #2	
		Sanilac	Lake Huron		Birch Beach North #3	
		Sanilac	Lake Huron		Delaware Park	
		Sanilac	Lake Huron		Great Lakes Beach	
		Sanilac	Lake Huron		Sanilac County Park #4	
		Sanilac	Lake Huron		Sanilac County Roadside Park #1	
35	379	Schoolcraft	Lake Michigan	1	Doyle Township Park	
		Schoolcraft	Lake Michigan		Lakeview Park	
		Schoolcraft	Lake Michigan		Manistique Township Park	
		Schoolcraft	Lake Michigan		Public Shoreline Beach-Goudreou's Harbor	
		Schoolcraft	Lake Michigan		Public Shoreline Beach-S. of McDonald Lake	

Appendix E.2. Great Lakes Beaches not Monitored.

	County	Water Body		Location
384	Schoolcraft	Lake Michigan	6	Public Shoreline Beach-Thompson
385	Schoolcraft	Lake Michigan	7	Public Shoreline Beach-Thompson Village

Appendix F. Daily Water Samples that Exceeded Michigan's WQS.

					Sampling	E. coli Test
		County	Water Body	Location	Date	Results
<u>1</u>	1	Allegan	Lake Michigan	Pier Cove Beach	01-Jun-10	368
	2	Allegan	Lake Michigan	West Side County Park Beach	01-Jun-10	649
<u>2</u>	3	Alpena	Lake Huron	Blair Street Park	09-Aug-10	311
	4	Alpena	Lake Huron	Blair Street Park	10-Aug-10	443
	5	Alpena	Lake Huron	Blair Street Park	18-Aug-10	366
	6	Alpena	Lake Huron	Starlite Beach	09-Aug-10	323
	7	Alpena	Lake Huron	Starlite Beach	10-Aug-10	359
<u>3</u>	8	<u>Arenac</u>	Saginaw Bay-Lake Huron	Dyer Road Beach	12-Jul-10	460
	9	Arenac	Saginaw Bay-Lake Huron	Singing Bridge Beach	17-Jun-10	589
	10	Arenac	Saginaw Bay-Lake Huron	Singing Bridge Beach	24-Jun-10	403
	11	Arenac	Saginaw Bay-Lake Huron	Singing Bridge Beach	28-Jun-10	745
	12	Arenac	Saginaw Bay-Lake Huron	Singing Bridge Beach	29-Jun-10	640
		Arenac	Saginaw Bay-Lake Huron	Singing Bridge Beach	08-Jul-10	447
		Arenac	Saginaw Bay-Lake Huron	Singing Bridge Beach	19-Jul-10	675
	15	Arenac	Saginaw Bay-Lake Huron	Whites Beach	17-Aug-10	305
<u>4</u>	16	<u>Barry</u>	Thornapple Lake	Charlton Park	02-Aug-10	617
<u>5</u>		<u>Bay</u>	Saginaw Bay-Lake Huron	Bay City State Recreation Area	15-Jun-10	511
		Bay	Kawkawlin River	Boat Launch on Kawkawlin River	01-Jun-10	2,165
		Bay	Kawkawlin River	Boat Launch on Kawkawlin River	07-Jun-10	802
		Bay	Kawkawlin River	Boat Launch on Kawkawlin River	28-Jun-10	2,164
	21	Bay	Saginaw Bay-Lake Huron	South Linwood Beach Township Park	15-Jun-10	1,279
_						
<u>6</u>		<u>Benzie</u>	Otter Creek	Sleeping Bear Dunes-Otter Creek	16-Jun-10	800
		Benzie	Otter Creek	Sleeping Bear Dunes-Otter Creek	30-Jun-10	334
	24	Benzie	Otter Creek	Sleeping Bear Dunes-Otter Creek	28-Jul-10	536
_						
<u>7</u>		<u>Berrien</u>	Lake Michigan	Cherry Beach	01-Jun-10	345
		Berrien	Lake Michigan	Cherry Beach	02-Jun-10	334
		Berrien	Lake Michigan	Cherry Beach	03-Jun-10	336
		Berrien	Lake Michigan	Grand Beach	01-Jun-10	
		Berrien	Lake Michigan	Grand Beach	26-Jul-10	524
		Berrien	Lake Michigan	Jean Klock Park	06-Jul-10	429
		Berrien	Lake Michigan	Michiana Village	26-Jul-10	857
		Berrien	Lake Michigan	New Buffalo City	19-Jul-10	327
		Berrien	Lake Michigan	New Buffalo City	26-Jul-10	607
		Berrien	Lake Michigan	Warren Dunes Beach	01-Jun-10	1,000
		Berrien	Lake Michigan	Warren Dunes Beach	02-Jun-10	474
		Berrien Berrien	Lake Michigan	Warren Dunes Beach Warren Dunes Beach	03-Jun-10	459 437
			Lake Michigan	Warren Dunes Beach	12-Jul-10	
		Berrien	Lake Michigan		26-Jul-10	464
		Berrien	Lake Michigan	Weko Beach	12-Jul-10	416
	40	Berrien	Lake Michigan	Weko Beach	26-Jul-10	1,000
ρ	/11	Charlevoix	Lake Michigan	Norwood Township Park	29-Jun-10	1,527
<u>8</u>	41	CHAHEVUIX	Lake Michigan	INDIWOOD TOWNSHIP FAIR	∠ə-Juii-1U	1,041

Appendix F. Daily Water Samples that Exceeded Michigan's WQS.

					Sampling	E. coli Test
		County	Water Body	Location	Date	Results
9	42	Cheboygan	Lake Huron	Cheboygan City Park	10-Aug-10	452
<u>10</u>	43	Chippewa	Lake Superior	Brimley State Park	22-Jun-10	398
	44	Chippewa	Lake Superior	Brimley State Park	12-Jul-10	2,165
	45	Chippewa	Lake Superior	Brimley State Park	13-Jul-10	442
	46	Chippewa	Lake Superior	Brimley State Park	15-Jul-10	1,693
	47	Chippewa	Lake Superior	Brimley State Park	03-Aug-10	380
	48	Chippewa	Lake Superior	Brimley State Park	04-Aug-10	835
	49	Chippewa	Lake Superior	Brimley State Park	05-Aug-10	1,795
	50	Chippewa	Lake Superior	Brimley State Park	10-Aug-10	361
	51	Chippewa	Lake Superior	Brimley State Park	16-Aug-10	417
	52	Chippewa	Lake Superior	Brimley State Park	04-Sep-10	435
	53	Chippewa	Lake Superior	Sherman Park	29-Jun-10	1,070
	54	Chippewa	Lake Superior	Sherman Park	03-Aug-10	2,420
	55	Chippewa	Lake Superior	Sherman Park	16-Aug-10	759
	56	Chippewa	Lake Superior	Sherman Park	04-Sep-10	326
	57	Chippewa	St. Mary's River	Sugar Island Township Park	17-Aug-10	374
	58	Chippewa	St. Mary's River	Sugar Island Township Park	31-Aug-10	373
<u>11</u>	59	<u>Genesee</u>	Pinewood Lake	Beach at Pinewood Lake	05-Jul-10	380
	60	Genesee	Pinewood Lake	Beach at Pinewood Lake	12-Jul-10	380
	61	Genesee	Holloway Reservoir	Buttercup Beach	05-Jul-10	463
	62	Genesee	Fenton Lake	Township Hall	02-Aug-10	482
<u>12</u>	63	<u>Gladwin</u>	Ross Lake	Beaverton City Park	16-Jun-10	418
	64	Gladwin	Ross Lake	Beaverton City Park	29-Jun-10	1,425
<u>13</u>	65	<u>Grand</u>	Grand Traverse Bay-West	Bryant Park Beach	28-Jul-10	433
		<u>Traverse</u>				
	66	Grand Traverse	Grand Traverse Bay-West	Bryant Park Beach	19-Aug-10	1,143
	67	Grand Traverse	Grand Traverse Bay-East	East Bay Park (Milliken Park)	16-Jun-10	1,419
<u>14</u>	68	<u>Huron</u>	Lake Huron	Bird Creek County Park	29-Jun-10	470
	69	Huron	Lake Huron	Lighthouse County Park	29-Jun-10	2,266
		Huron	Lake Huron	Lighthouse County Park	13-Jul-10	
	71	Huron	Lake Huron	Lighthouse County Park	10-Aug-10	958
		Huron	Lake Huron	McGraw County Park	13-Jul-10	690
	73	Huron	Lake Huron	Port Crescent State Park - Day Use	07-Jun-10	558
	74	Huron	Lake Huron	Port Crescent State Park - Day Use	19-Jul-10	314
	75	Huron	Lake Huron	Veterans Park	08-Sep-10	327
<u>15</u>	76	<u>Ingham</u>	Valhalla Pond	Valhalla Park	02-Aug-10	352
<u>16</u>		<u>losco</u>	Lake Huron	Au Sable Township Park	03-Aug-10	516
		losco	Tawas Bay	East Tawas City Park	22-Jun-10	610
		losco	Tawas Bay	East Tawas City Park	23-Jun-10	1,008
		losco	Tawas Bay	Tawas City Park	22-Jun-10	565
	81	losco	Tawas Bay	Tawas City Park	20-Jul-10	364

Appendix F. Daily Water Samples that Exceeded Michigan's WQS.

		County	Water Body	Location	Sampling Date	E. coli Test Results
<u>17</u>	82	Isabella	Coldwater Lake	Coldwater Park	27-Jul-10	1,760
	83	Isabella	Borrow Pit	Herrick County Park	20-Jul-10	395
	84	Isabella	Borrow Pit	Herrick County Park	27-Jul-10	1,872
<u>18</u>		<u>Kalamazoo</u>	Long Lake	Ramona Park	16-Aug-10	1,052
		Kalamazoo	Campbell Lake	Robert Morris Park	01-Jun-10	328
		Kalamazoo	Woods Lake	Woods Lake Beach	01-Jun-10	688
	88	Kalamazoo	Woods Lake	Woods Lake Beach	26-Jul-10	864
<u>19</u>	89	<u>Leelanau</u>	inland lake	Sleeping Bear Dunes-Little Glen Lake	09-Jun-10	619
<u>20</u>	90	<u>Livingston</u>	Bentley Lake	Camp Innisfree	10-Aug-10	714
<u>21</u>		<u>Macomb</u>	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	02-Jun-10	1,500
		Macomb	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	09-Jun-10	832
		Macomb	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	16-Jun-10	836
	94	Macomb	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	12-Jul-10	905
	95	Macomb	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	02-Aug-10	354
	96	Macomb	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	03-Aug-10	528
	97	Macomb	Lake St. Clair	H.C.M.A Metropolitan Beach Metropark	11-Aug-10	659
	98	Macomb	Lake St. Clair	New Baltimore Park Beach	09-Jun-10	2,419
	99	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	26-Apr-10	436
•	100	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	12-May-10	1,373
,	101	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	17-May-10	442
•	102	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	19-May-10	1,049
,	103	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	24-May-10	426
	104	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	07-Jun-10	782
,	105	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	14-Jun-10	327
	106	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	16-Jun-10	1,760
•	107	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	21-Jun-10	1,558
	108	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	23-Jun-10	359

Appendix F. Daily Water Samples that Exceeded Michigan's WQS.

	County	Water Body	Location	Sampling Date	E. coli Test Results
109	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	12-Jul-10	1,052
110	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	14-Jul-10	1,648
111	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	21-Jul-10	426
112	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	18-Aug-10	598
113	Macomb	Lake St. Clair	St. Clair Shores Blossom Heath Beach	23-Aug-10	1,209
114	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	12-May-10	2,419
115	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	17-May-10	419
116	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	19-May-10	320
117	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	07-Jun-10	2,265
118	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	09-Jun-10	1,813
119	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	16-Jun-10	1,237
120	Macomb	Lake St. Clair	St. Clair Shores Memorial Park Beach	12-Jul-10	2,027
121	Macomb	Stony Creek Lake- Impoundment	Stony Creek Metropark-Baypoint Beach	03-May-10	1,695
122	Macomb	Stony Creek Lake- Impoundment	Stony Creek Metropark-Baypoint Beach	21-Jul-10	476
123	Macomb	Stony Creek Lake- Impoundment	Stony Creek Metropark-Baypoint Beach	30-Aug-10	1,186
124	Macomb	Stony Creek Lake- Impoundment	Stony Creek Metropark-Eastwood Beach	25-Aug-10	435
	<u>Marquette</u>	Lake Superior	Marquette South Beach	16-Aug-10	583
	Marquette Marquette	Lake Superior Lake Superior	Marquette South Beach McCarty's Cove	17-Aug-10 26-Jun-10	387 388
	Menominee	Lake Michigan	Henes Park	24-Jun-10	688
<u>3</u> 120	<u> wienominee</u>	Lake Michigan	rielles Faik	24-Juli-10	000
	<u>Monroe</u>	Lake Erie	Luna Pier City Beach	20-Jul-10	653
130	Monroe	Lake Erie	Sterling State Park	06-Jul-10	573
<u>5</u> 131	Muskegon	Muskegon Lake	Harbor Towne Beach	26-Jul-10	423
	Muskegon	Lake Michigan	Lighthouse/Sylvan Beach	12-Jul-10	479
	Muskegon	Lake Michigan	Meinert County Park	28-Jun-10	1,183
	Muskegon	Lake Michigan	Meinert County Park	29-Jun-10	420
135	Muskegon	Lake Michigan	Muskegon State Park	26-Jul-10	624
	Oakland	Lower Trout	Bald Mountain Recreation Area	22-Jun-10	1,354
137	Oakland	Phillips Lake	Camp Dearborn - Lake #1	12-Jul-10	1,065

Appendix F. Daily Water Samples that Exceeded Michigan's WQS.

138					Sampling	E. coli Test
139		County	Water Body			Results
140				•		
141				-		
142 Oakland						
143				•		
Community Center Sa-Jul-10 Se9 Sew Se						
144 Oakland	143	Oakland	Mill Pond	,	27-Jul-10	434
146 Oakland Sun Lake Finnish Day Camp 22-Jun-10 432 147 Oakland Bush Lake Holly Village Beach 28-Jun-10 497 148 Oakland Pontiac Lake Pontiac Recreation Area 27-Jul-10 406 149 Oakland Prince Lake Upland Hills Farm 12-Jul-10 460 27 150 Oceana Lake Michigan Whiskey Creek 16-Aug-10 330 151 Osceola Muskegon River Crawford Park 02-Jun-10 771 152 Osceola Rose Lake Rose Lake County Park 20-Jul-10 440 28 153 Ottawa Lake Macatawa Dunton Park 01-Jun-10 2,420 154 Ottawa Lake Macatawa Dunton Park 07-Jun-10 2,027 155 Ottawa Lake Macatawa Dunton Park 23-Jun-10 1,800 157 Ottawa Lake Macatawa Dunton Park 18-Aug-10 367 158 Ottawa Lake	144	Oakland	Mill Pond	Davisburg Village Beach (Hart	28-Jul-10	369
147	145	Oakland	Walled Lake		20-Jul-10	825
147	146	Oakland	Sun Lake	Finnish Day Camp	22-Jun-10	432
149 Oakland	147	Oakland	Bush Lake		28-Jun-10	497
27 150 Oceana	148	Oakland	Pontiac Lake	Pontiac Recreation Area	27-Jul-10	406
151 Osceola Muskegon River Crawford Park 02-Jun-10 771 152 Osceola Rose Lake Rose Lake Rose Lake County Park 20-Jul-10 440 440 28 153 Ottawa Lake Macatawa Dunton Park 07-Jun-10 2,420 154 Ottawa Lake Macatawa Dunton Park 07-Jun-10 2,027 155 Ottawa Lake Macatawa Dunton Park 23-Jun-10 1,800 156 Ottawa Lake Macatawa Dunton Park 18-Aug-10 846 157 Ottawa Lake Macatawa Dunton Park 18-Aug-10 367 158 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 793 164 Roscommon Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651 165 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651 165 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651 165 166	149	Oakland	Prince Lake	Upland Hills Farm	12-Jul-10	460
152 Osceola Rose Lake Rose Lake County Park 20-Jul-10 440	<u>27</u> 150	<u>Oceana</u>	Lake Michigan	Whiskey Creek	16-Aug-10	330
28 153 Ottawa Lake Macatawa Dunton Park 01-Jun-10 2,420 154 Ottawa Lake Macatawa Dunton Park 07-Jun-10 2,027 155 Ottawa Lake Macatawa Dunton Park 23-Jun-10 1,800 156 Ottawa Lake Macatawa Dunton Park 18-Aug-10 846 157 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 975 165 Roscommon	151	Osceola	Muskegon River	Crawford Park	02-Jun-10	771
154 Ottawa Lake Macatawa Dunton Park 07-Jun-10 2,027 155 Ottawa Lake Macatawa Dunton Park 23-Jun-10 1,800 156 Ottawa Lake Macatawa Dunton Park 18-Aug-10 846 157 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 <	152	Osceola	Rose Lake	Rose Lake County Park	20-Jul-10	440
154 Ottawa Lake Macatawa Dunton Park 07-Jun-10 2,027 155 Ottawa Lake Macatawa Dunton Park 23-Jun-10 1,800 156 Ottawa Lake Macatawa Dunton Park 18-Aug-10 846 157 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 <	28 153	Ottawa	Lake Macatawa	Dunton Park	01-Jun-10	2.420
155 Ottawa Lake Macatawa Dunton Park 23-Jun-10 1,800 156 Ottawa Lake Macatawa Dunton Park 18-Aug-10 846 157 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651						
156 Ottawa Lake Macatawa Dunton Park 18-Aug-10 846 157 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 975 165 Roscommon Higgins Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651						
157 Ottawa Lake Macatawa Fallen Leaf Park 18-Aug-10 367 158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 793 164 Roscommon Higgins Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666						
158 Ottawa Lake Michigan Holland State Park 04-Aug-10 454 159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 793 164 Roscommon Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651						
159 Ottawa Spring Lake Lakeside Beach 19-Aug-10 410 160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 793 164 Roscommon Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651			Lake Michigan	Holland State Park		454
160 Ottawa Lake Michigan Tunnel Park 05-Aug-10 635 161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 793 164 Roscommon Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651	159	Ottawa		Lakeside Beach		410
161 Ottawa Lake Michigan Windsnest Park 04-Aug-10 411 29 162 Roscommon Houghton Lake Denton Township Public Beach 16-Jun-10 835 163 Roscommon Houghton Lake Houghton Lake Heights 16-Jun-10 793 164 Roscommon Lake St. Helen Richfield Township Public Fishing Site 16-Jun-10 975 165 Roscommon Higgins Lake South Higgins Lake State Park 16-Jun-10 666 30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651				Tunnel Park		635
163RoscommonHoughton LakeHoughton Lake Heights16-Jun-10793164RoscommonLake St. HelenRichfield Township Public Fishing Site16-Jun-10975165RoscommonHiggins LakeSouth Higgins Lake State Park16-Jun-1066630166SanilacLake HuronForester County Park13-Jul-10651	161	Ottawa	· · · · · · · · · · · · · · · · · · ·	Windsnest Park		411
163RoscommonHoughton LakeHoughton Lake Heights16-Jun-10793164RoscommonLake St. HelenRichfield Township Public Fishing Site16-Jun-10975165RoscommonHiggins LakeSouth Higgins Lake State Park16-Jun-1066630166SanilacLake HuronForester County Park13-Jul-10651	29 162	Roscommon	Houghton Lake	Denton Township Public Beach	16lun-10	835
164RoscommonLake St. HelenRichfield Township Public Fishing Site16-Jun-10975165RoscommonHiggins LakeSouth Higgins Lake State Park16-Jun-1066630166SanilacLake HuronForester County Park13-Jul-10651						
30 166 Sanilac Lake Huron Forester County Park 13-Jul-10 651			<u> </u>			
	165	Roscommon	Higgins Lake	South Higgins Lake State Park	16-Jun-10	666
167 Schooleraft Quarry Roach Quarry Roach 05 Aug 10 2 420	<u>30</u> 166	<u>Sanilac</u>	Lake Huron	Forester County Park	13-Jul-10	651
TOT SCHOOLSTAIL QUAITY DEACH QUAITY DEACH U0-Aug-10 2,420	167	Schoolcraft	Quarry Beach	Quarry Beach	05-Aug-10	2,420
168 Schoolcraft Lake Michigan Roadside Park Beach 15-Jul-10 703						703
169 Schoolcraft Lake Michigan Rogers Park-MDOT 15-Jul-10 681	169	Schoolcraft	Lake Michigan	Rogers Park-MDOT	15-Jul-10	681
31 170 St. Clair Lake Huron Burtchville Township Park 19-Jul-10 326	<u>31</u> 170	St. Clair	Lake Huron	Burtchville Township Park	19-Jul-10	326
171 St. Clair St. Clair River Chrysler Park Beach 21-Jul-10 336			St. Clair River	·		336
172 St. Clair St. Clair River Chrysler Park Beach 22-Jul-10 1,531						
173 St. Clair Lake Huron Conger-Lighthouse Beach 29-Jun-10 340						
174 St. Clair Lake Huron Conger-Lighthouse Beach 19-Jul-10 547						
175 St. Clair Lake Huron Fort Gratiot County Park 01-Jun-10 688				· ·		
176 St. Clair Lake Huron Fort Gratiot County Park 19-Jul-10 315						
177 St. Clair Lake Huron Holland Road Beach 29-Jun-10 395						
178 St. Clair Lake Huron Holland Road Beach 19-Jul-10 590	178	St. Clair	Lake Huron	Holland Road Beach	19-Jul-10	590

Appendix F. Daily Water Samples that Exceeded Michigan's WQS.

					Sampling	E. coli Test
		County	Water Body	Location	Date	Results
1	79 5	St. Clair	Lake Huron	Jeddo Road Beach	07-Jun-10	579
1	80 5	St. Clair	Lake Huron	Keewadhin Road Beach	14-Jul-10	335
1	81 5	St. Clair	Lake Huron	Krafft Road Beach	19-Jul-10	547
1	82 5	St. Clair	Lake Huron	Lakeport State Campground	07-Jun-10	715
1	83 5	St. Clair	Lake Huron	Lakeport State Park	07-Jun-10	806
1	84 5	St. Clair	Lake Huron	Lakeport State Park	19-Jul-10	536
1	85 5	St. Clair	Lake Huron	Lakeside Beach	29-Jun-10	433
1	86 5	St. Clair	Lake Huron	Lakeside Beach	19-Jul-10	758
1	87 5	St. Clair	Lake Huron	Metcalf Road Beach	01-Jun-10	409
1	88	St. Clair	Lake Huron	Washington Street Park	07-Jun-10	2,419
		/an Buren	Lake Michigan	South Haven South Beach	08-Jun-10	384
		/an Buren	Lake Michigan	South Haven South Beach	22-Jun-10	359
	_	/an Buren	Lake Michigan	South Haven South Beach	28-Jun-10	885
1	92 \	/an Buren	Lake Michigan	Van Buren State Park Beach	28-Jun-10	359
33 1	93 V		Independence Lake	Independence Lake County Park	30-Jul-10	324
		Washtenaw	Independence Lake	Independence Lake County Park	25-Aug-10	624
		Vashtenaw	Bruin Lake	Pinckney Recreation Area	09-Jul-10	641
		Vashtenaw	Sugarloaf Lake	Waterloo Recreation Area	09-Jul-10	735
		Vashtenaw	Sugarloaf Lake	Waterloo Recreation Area	12-Jul-10	590
		Nashtenaw Nashtenaw	Sugarloaf Lake	Waterloo Recreation Area	16-Jul-10	688
		Vashtenaw	Sugarloaf Lake	Waterloo Recreation Area	19-Jul-10	704
						-
<u>34</u> 2	00 v	<u> Wayne</u>	Lake St. Clair	Pier Park	06-Jun-10	343
		Nayne	Lake St. Clair	Pier Park	10-Jul-10	519
2	02 V	Nayne	Lake St. Clair	Pier Park	25-Jul-10	498
2	03 V	Nayne	Lake St. Clair	Pier Park	01-Aug-10	422
		Nayne	Lake St. Clair	Pier Park	02-Aug-10	389
		Nayne	Lake St. Clair	Pier Park	03-Aug-10	324
		Nayne	Lake St. Clair	Pier Park	04-Aug-10	365
2	07 V	Nayne	Lake St. Clair	Pier Park	07-Aug-10	664
		Nayne	Lake St. Clair	Pier Park	09-Aug-10	312
2	09 V	Nayne	Lake St. Clair	Pier Park	12-Aug-10	401
		Nayne	Rouge River	Wilcox Lake	02-Aug-10	456
		Nayne	Rouge River	Wilcox Lake	28-Jun-10	356
		Nayne	Rouge River	Wilcox Lake	07-Jun-10	1,115
		Nayne	Rouge River	Newburgh Lake	07-Jun-10	758
2	14 V	Nayne	Rouge River	Phoenix Lake	07-Jun-10	603