

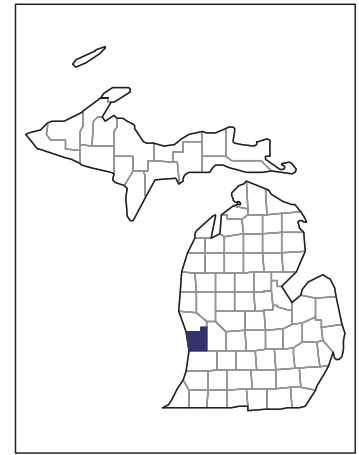
# **Appendix E**

## **Agriculture and Animal Waste Statistics**

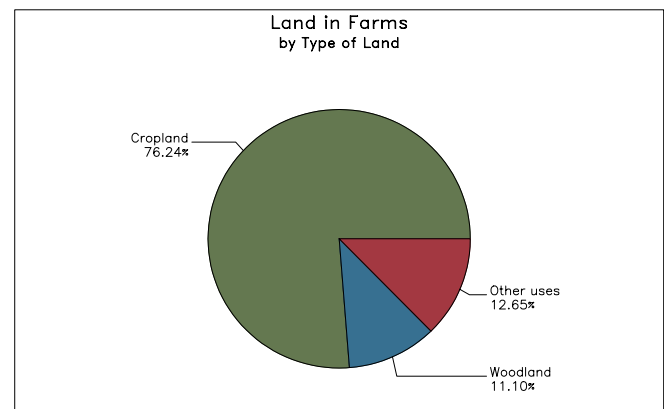
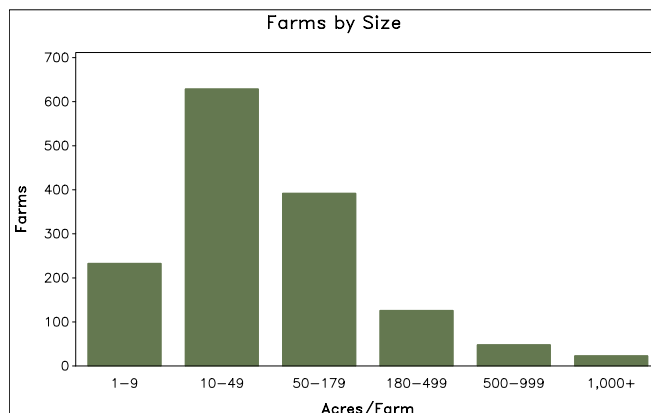
# 2007 CENSUS OF AGRICULTURE

## County Profile

### Ottawa County Michigan



	2007	2002	% change
<b>Number of Farms</b>	1,451	1,291	+ 12
<b>Land in Farms</b>	170,539 acres	165,484 acres	+ 3
<b>Average Size of Farm</b>	118 acres	128 acres	- 8
<b>Market Value of Products Sold</b>	\$391,093,000	\$277,503,000	+ 41
Crop Sales \$231,749,000 (59 percent)			
Livestock Sales \$159,344,000 (41 percent)			
<b>Average Per Farm</b>	\$269,533	\$214,952	+ 25
<b>Government Payments</b>	\$1,463,000	\$3,435,000	- 57
<b>Average Per Farm Receiving Payments</b>	\$4,053	\$11,412	- 64



# 2007 CENSUS OF AGRICULTURE

## County Profile

### Ottawa County – Michigan

#### Ranked items among the 83 state counties and 3,079 U.S. counties, 2007

Item	Quantity	State Rank	Universe <sup>1</sup>	U.S. Rank	Universe <sup>1</sup>
<b>MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)</b>					
Total value of agricultural products sold	391,093	2	83	98	3,076
Value of crops including nursery and greenhouse	231,749	1	83	65	3,072
Value of livestock, poultry, and their products	159,344	3	83	184	3,069
<b>VALUE OF SALES BY COMMODITY GROUP (\$1,000)</b>					
Grains, oilseeds, dry beans, and dry peas	17,431	32	82	1,035	2,933
Tobacco	-	-	-	-	437
Cotton and cottonseed	-	-	-	-	626
Vegetables, melons, potatoes, and sweet potatoes	13,452	9	81	147	2,796
Fruits, tree nuts, and berries	69,381	2	81	48	2,659
Nursery, greenhouse, floriculture, and sod	129,035	1	80	20	2,703
Cut Christmas trees and short rotation woody crops	300	17	81	166	1,710
Other crops and hay	2,151	21	83	814	3,054
Poultry and eggs	79,899	1	82	132	3,020
Cattle and calves	19,306	4	83	709	3,054
Milk and other dairy products from cows	48,424	9	77	153	2,493
Hogs and pigs	10,456	11	82	355	2,922
Sheep, goats, and their products	(D)	8	79	552	2,998
Horses, ponies, mules, burros, and donkeys	465	20	82	519	3,024
Aquaculture	(D)	26	41	(D)	1,498
Other animals and other animal products	557	14	82	350	2,875
<b>TOP CROP ITEMS (acres)</b>					
Corn for grain	35,666	29	78	714	2,634
Forage - land used for all hay and haylage, grass silage, and greenchop	25,757	12	83	824	3,060
Soybeans for beans	17,664	33	65	872	2,039
Corn for silage	13,356	5	79	85	2,263
Land in berries	6,837	2	78	9	2,237
<b>TOP LIVESTOCK INVENTORY ITEMS (number)</b>					
Layers	1,731,008	3	82	51	3,024
Turkeys	888,666	1	77	35	2,371
Pullets for laying flock replacement	466,630	3	81	65	2,627
Broilers and other meat-type chickens	(D)	2	81	(D)	2,476
Hogs and pigs	50,912	5	81	298	2,958

#### Other County Highlights

Economic Characteristics	Quantity	Operator Characteristics	Quantity
Farms by value of sales:		Principal operators by primary occupation:	
Less than \$1,000	329	Farming	627
\$1,000 to \$2,499	115	Other	824
\$2,500 to \$4,999	112	Principal operators by sex:	
\$5,000 to \$9,999	144	Male	1,276
\$10,000 to \$19,999	121	Female	175
\$20,000 to \$24,999	55	Average age of principal operator (years)	54.1
\$25,000 to \$39,999	86	All operators by race <sup>2</sup> :	
\$40,000 to \$49,999	50	American Indian or Alaska Native	20
\$50,000 to \$99,999	81	Asian	3
\$100,000 to \$249,999	126	Black or African American	-
\$250,000 to \$499,999	90	Native Hawaiian or Other Pacific Islander	-
\$500,000 or more	142	White	2,176
Total farm production expenses (\$1,000)	295,168	More than one race	14
Average per farm (\$)	203,424	All operators of Spanish, Hispanic, or Latino Origin <sup>2</sup>	48
Net cash farm income of operation (\$1,000)	102,191		
Average per farm (\$)	70,428		

See "Census of Agriculture, Volume 1, Geographic Area Series" for complete footnotes, explanations, definitions, and methodology.

(D) Cannot be disclosed. (Z) Less than half of the unit shown.

<sup>1</sup> Universe is number of counties in state or U.S. with item. <sup>2</sup> Data were collected for a maximum of three operators per farm.

## 1997 Animal Waste Summary OTTAWA County

<u>Animal Type</u>	<u>Number of Head</u>	<u>Amount of Waste (tons/yr)</u>	<u>Volume of Waste (gallons/yr)</u>	<u>Amount of Nitrogen in Waste(pounds/yr)</u>	<u>Nitrogen Lost to Atmosphere (pounds/yr)</u>	<u>Amount of Phosphorous in Waste (pounds/yr)</u>
Hogs	69,018	130,000	32,000,000	1,600,000	1,200,000	540,000
Cattle	36,159	380,000	92,000,000	4,000,000	1,500,000	900,000
Poultry	3,558,367	250,000	60,000,000	6,700,000	2,700,000	2,600,000
Sheep	713	290	68,000	6,000	4,400	1,200
Total Animal	3,664,257	760,000	180,000,000	12,000,000	5,300,000	4,000,000

\*Note: County totals are compiled using 1997 Census of Agriculture data.

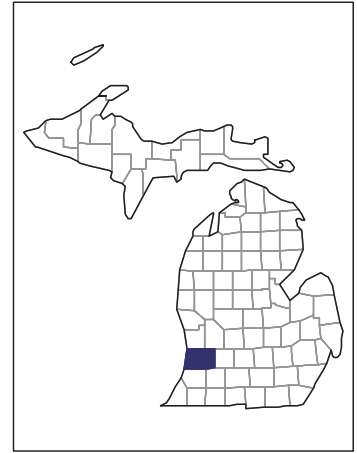
## Animal Waste Trends in OTTAWA County

<u>Animal Type</u>	<u>Percentage Change in Animal Waste</u>
Hogs	<u>Decreased by 24% from 1987 to 1997</u>
Cattle	<u>Decreased by 1% from 1987 to 1997</u>
Poultry	<u>Increased by 43% from 1987 to 1997</u>
Sheep	<u>Increased by 54% from 1987 to 1997</u>
Total Animal	<u>Increased by 4% from 1987 to 1997</u>

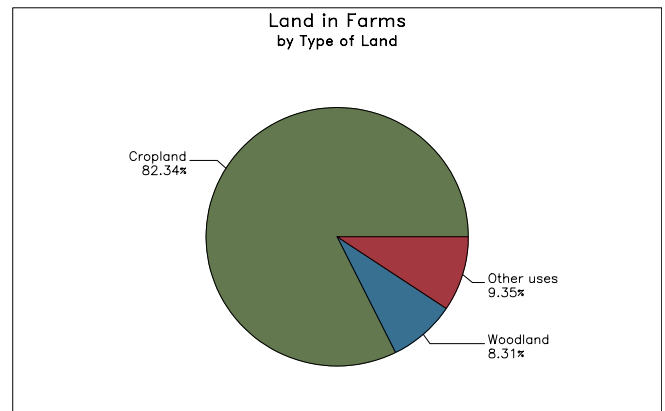
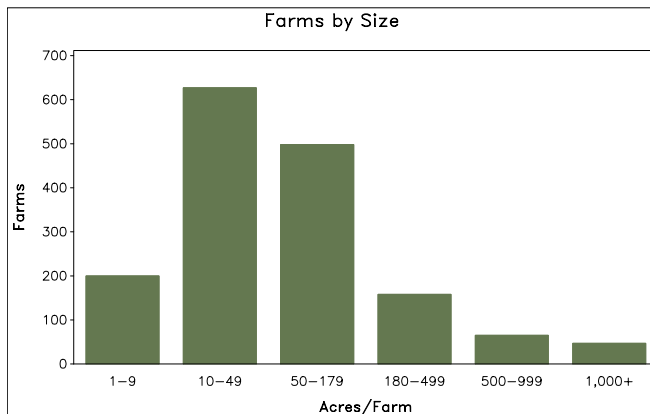
# 2007 CENSUS OF AGRICULTURE

## County Profile

### Allegan County Michigan



	2007	2002	% change
<b>Number of Farms</b>	1,595	1,489	+ 7
<b>Land in Farms</b>	275,120 acres	243,270 acres	+ 13
<b>Average Size of Farm</b>	172 acres	163 acres	+ 6
<b>Market Value of Products Sold</b>	\$397,533,000	\$230,268,000	+ 73
Crop Sales \$150,085,000 (38 percent)			
Livestock Sales \$247,448,000 (62 percent)			
<b>Average Per Farm</b>	\$249,237	\$154,646	+ 61
<b>Government Payments</b>	\$3,444,000	\$3,884,000	- 11
<b>Average Per Farm Receiving Payments</b>	\$7,374	\$11,259	- 35



# 2007 CENSUS OF AGRICULTURE

## County Profile

### Allegan County – Michigan

#### Ranked items among the 83 state counties and 3,079 U.S. counties, 2007

Item	Quantity	State Rank	Universe <sup>1</sup>	U.S. Rank	Universe <sup>1</sup>
<b>MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)</b>					
Total value of agricultural products sold	397,533	1	83	94	3,076
Value of crops including nursery and greenhouse	150,085	3	83	161	3,072
Value of livestock, poultry, and their products	247,448	1	83	87	3,069
<b>VALUE OF SALES BY COMMODITY GROUP (\$1,000)</b>					
Grains, oilseeds, dry beans, and dry peas	51,155	12	82	571	2,933
Tobacco	-	-	-	-	437
Cotton and cottonseed	-	-	-	-	626
Vegetables, melons, potatoes, and sweet potatoes	14,118	7	81	141	2,796
Fruits, tree nuts, and berries	28,046	6	81	86	2,659
Nursery, greenhouse, floriculture, and sod	52,074	4	80	63	2,703
Cut Christmas trees and short rotation woody crops	2,269	4	81	26	1,710
Other crops and hay	2,423	18	83	710	3,054
Poultry and eggs	70,050	2	82	147	3,020
Cattle and calves	17,264	5	83	789	3,054
Milk and other dairy products from cows	67,210	5	77	105	2,493
Hogs and pigs	90,999	1	82	34	2,922
Sheep, goats, and their products	(D)	15	79	757	2,998
Horses, ponies, mules, burros, and donkeys	818	7	82	270	3,024
Aquaculture	(D)	23	41	(D)	1,498
Other animals and other animal products	935	7	82	223	2,875
<b>TOP CROP ITEMS (acres)</b>					
Corn for grain	93,341	6	78	310	2,634
Soybeans for beans	43,019	17	65	568	2,039
Forage - land used for all hay and haylage, grass silage, and greenchop	29,372	5	83	701	3,060
Corn for silage	19,194	2	79	49	2,263
Wheat for grain, all	6,870	22	75	854	2,481
<b>TOP LIVESTOCK INVENTORY ITEMS (number)</b>					
Layers	3,055,347	2	82	20	3,024
Pullets for laying flock replacement	686,584	1	81	38	2,627
Turkeys	308,871	3	77	86	2,371
Broilers and other meat-type chickens	234,671	1	81	478	2,476
Hogs and pigs	195,695	1	81	83	2,958

#### Other County Highlights

Economic Characteristics	Quantity	Operator Characteristics	Quantity
Farms by value of sales:		Principal operators by primary occupation:	
Less than \$1,000	442	Farming	696
\$1,000 to \$2,499	193	Other	899
\$2,500 to \$4,999	156	Principal operators by sex:	
\$5,000 to \$9,999	134	Male	1,375
\$10,000 to \$19,999	123	Female	220
\$20,000 to \$24,999	45	Average age of principal operator (years)	55.5
\$25,000 to \$39,999	74	All operators by race <sup>2</sup> :	
\$40,000 to \$49,999	32	American Indian or Alaska Native	28
\$50,000 to \$99,999	96	Asian	1
\$100,000 to \$249,999	101	Black or African American	21
\$250,000 to \$499,999	75	Native Hawaiian or Other Pacific Islander	-
\$500,000 or more	124	White	2,342
Total farm production expenses (\$1,000)	311,129	More than one race	17
Average per farm (\$)	195,065	All operators of Spanish, Hispanic, or Latino Origin <sup>2</sup>	45
Net cash farm income of operation (\$1,000)	99,291		
Average per farm (\$)	62,252		

See "Census of Agriculture, Volume 1, Geographic Area Series" for complete footnotes, explanations, definitions, and methodology.

(D) Cannot be disclosed. (Z) Less than half of the unit shown.

<sup>1</sup> Universe is number of counties in state or U.S. with item. <sup>2</sup> Data were collected for a maximum of three operators per farm.

## 1997 Animal Waste Summary ALLEGAN County

<u>Animal Type</u>	<u>Number of Head</u>	<u>Amount of Waste (tons/yr)</u>	<u>Volume of Waste (gallons/yr)</u>	<u>Amount of Nitrogen in Waste(pounds/yr)</u>	<u>Nitrogen Lost to Atmosphere (pounds/yr)</u>	<u>Amount of Phosphorous in Waste (pounds/yr)</u>
Hogs	121,752	230,000	56,000,000	2,800,000	2,000,000	950,000
Cattle	41,416	450,000	110,000,000	4,700,000	1,700,000	1,100,000
Poultry	1,881,679	120,000	30,000,000	3,300,000	1,200,000	1,300,000
Sheep	2,358	940	230,000	20,000	14,000	4,100
Total Animal	2,047,205	810,000	190,000,000	11,000,000	5,000,000	3,300,000

\*Note: County totals are compiled using 1997 Census of Agriculture data.

## Animal Waste Trends in ALLEGAN County

<u>Animal Type</u>	<u>Percentage Change in Animal Waste</u>
Hogs	<u>Increased by 14% from 1987 to 1997</u>
Cattle	<u>Increased by 3% from 1987 to 1997</u>
Poultry	<u>Increased by 59% from 1987 to 1997</u>
Sheep	<u>Decreased by 19% from 1987 to 1997</u>
Total Animal	<u>Increased by 12% from 1987 to 1997</u>

# **Appendix F**

## **Part 111 Hazardous Waste Treatment, Storage, and Disposal Facilities**



# Michigan Hazardous Waste Treatment, Storage, and Disposal Facilities Directory (TSD)

The following report contains facilities that have required an operating license under Part 111 (Hazardous Waste Management) of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, for hazardous waste treatment, storage, or disposal (TSD) activity. This list includes information regarding the facility location, type, and status (licensed, closed, etc.). A key to the fields and codes is contained at the end of the report.

Current Name	EPA ID Number	Facility Address	Facility City	Facility County	Facility Type	Commercial	Administrative Track	RCRA	Part 111	Clean Closed	Closed
BASF CORP	MID048223986	471 HOWARD AVE	HOLLAND	OTTAWA	S	0	CAO	NI	NI	YES	YES
BLACK RIVER PUBLIC SCHOOL	MID006411953	491 COLUMBIA AVE	HOLLAND	OTTAWA	S	0	VOL	NI	NI	YES	YES
KHI INC	MID006020895	582 E LAKEWOOD	HOLLAND	OTTAWA	D	0	CC	NI	NI	NO	Yes
VERTELLUS HEALTH & SPECIALTY PRODUCTS	MID083684290	215 NORTH CENTENNIAL	ZEELAND	OTTAWA	S	0	CC	NI	NI	YES	YES
WARNER LAMBERT CO LLC FORMER MANUFACTURING	MID006013643	188 HOWARD AVE	HOLLAND	OTTAWA	S/D	0	PCOL	PI	PI	NO	YES

Facility Type: S=Storage; T=Treatment; D=Land Disposal; I=Incinerator  
 Commercial: "-1" Indicates facilities that accept waste on a commercial basis from off-site  
 Administrative Track: C=Closure; CAO=Corrective Action Order; OL=Operating License; P=Permit; PC=Post-Closure  
 RCRA (Federal) and Part 111 (State) Permit Status: AUR=Application Under Review; CI=Application Called-In; NCI=Application Not Called-In; NI=Permit Not Issued; PD=Permit Denied; PI=Permit Issued; PR=Permit Revoked; RUR=Renewal Application Under Review  
 Clean Closed: YES=All units requiring a permit have been certified clean; PAR=Some units are clean closed  
 Closed: YES=Units are closed, but contamination or waste remains in place with long-term monitoring and maintenance required; PAR=Some units are closed, but not clean

For issues related to database content contact: [DEQ-WHMD-ReceptionDesk@michigan.gov](mailto:DEQ-WHMD-ReceptionDesk@michigan.gov)  
 For technical issues contact: [DEQ-Webmaster](#)  
 Hazardous Wastes 111 sites: [http://www.michigan.gov/deq/0,1607,7-135-3312\\_4118---00.html](http://www.michigan.gov/deq/0,1607,7-135-3312_4118---00.html)

# **Appendix G**

## **Active Solid Waste Landfills**



**Active Part 115 Solid Waste Landfills  
June 2008  
Michigan DEQ**

Map #	WDS Number	Name	County	Type of Landfill
1	470373	Adrian Landfill	Lenawee	Type II MSW Landfill
2	475946	Veolia Es Arbor Hills Landfill Inc	Washtenaw	Type II MSW Landfill
3	409032	Autumn Hills Recycling And Disposal Facility	Ottawa	Type II MSW Landfill
4	406671	Brent Run Landfill	Genesee	Type II MSW Landfill
5	405721	C & C Expanded Sanitary Landfill	Calhoun	Type II MSW Landfill
6	390701	Carleton Farms Landfill	Wayne	Type II MSW Landfill
7	424474	Osceola Development Llc Landfill	Osceola	Type II MSW Landfill
8	416499	Central Sanitary Landfill	Montcalm	Type II MSW Landfill
9	470517	Citizens Disposal Inc	Genesee	Type II MSW Landfill
10	407066	City Environmental Services Inc Of Waters	Crawford	Type II MSW Landfill
11	470343	City Environmental Services Lf Of Hastings	Barry	Type II MSW Landfill
12	470453	City Of Midland Sanitary Landfill	Midland	Type II MSW Landfill
13	410118	Sauk Trail Hills Landfill	Wayne	Type II MSW Landfill
14	440983	County Of Muskegon - Solid Waste Facility	Muskegon	Type II MSW Landfill
15	439983	Cove Landfill	Huron	Type II MSW Landfill
17	451470	Dafter Sanitary Landfill	Chippewa	Type II MSW Landfill
18	410730	Delta County Landfill	Delta	Type II MSW Landfill
19	412314	Eagle Valley Recycle & Disposal Facility	Oakland	Type II MSW Landfill
20	391216	Elk Run Landfill	Presque Isle	Type II MSW Landfill
22	399441	Forest Lawn Landfill Inc	Berrien	Type II MSW Landfill
23	418012	Glens Sanitary Landfill	Leelanau	Type II MSW Landfill
24	397449	Granger Grand River MID082771700 Landfill	Clinton	Type II MSW Landfill
25	470523	Granger Wood Street Landfill	Ingham & Clinton	Type II MSW Landfill
26	408328	K & W Landfill	Ontonagon	Type II MSW Landfill
27	475646	South Kent Landfill	Kent	Type II MSW Landfill
28	398561	Manistee County Landfill Inc	Manistee	Type II MSW Landfill
29	451188	Marquette County Landfill	Marquette	Type II MSW Landfill
30	444391	McGill Road Landfill	Jackson	Type II MSW Landfill
31	442570	Michigan Environs Inc	Menominee	Type II MSW Landfill
32	450267	Montmorency-Oscoda-Alpena Swma	Montmorency	Type II MSW Landfill
33	409210	Northern Oaks Recycling And Disposal Facility	Clare	Type II MSW Landfill
34	470494	Oakland Heights Development Inc	Oakland	Type II MSW Landfill
35	458867	Orchard Hill Sanitary Landfill	Berrien	Type II MSW Landfill
36	403061	Ottawa County Farms Landfill	Ottawa	Type II MSW Landfill
37	437908	Peoples Landfill Inc	Saginaw	Type II MSW Landfill
38	398972	Pine Tree Acres Inc	Macomb	Type II MSW Landfill
39	407345	Pitsch Sanitary Landfill	Ionia	Type II MSW Landfill
40	470534	Richfield Landfill Inc	Genesee	Type II MSW Landfill
41	399054	Riverview Land Preserve	Wayne	Type II MSW Landfill
43	452546	Smiths Creek Landfill	St Clair	Type II MSW Landfill
44	458632	Southeast Berrien County Landfill	Berrien	Type II MSW Landfill
45	417640	Tri-City Recycling And Disposal Facility	Sanilac	Type II MSW Landfill
46	399185	Venice Park Recycling & Disposal Facil	Shiawassee	Type II MSW Landfill
47	470393	Vienna Junction Industrial Park Sanitary Landfill	Monroe	Type II MSW Landfill
48	470449	Westside Recycling & Disposal Facility	St Joseph	Type II MSW Landfill
49	470336	Wexford County Landfill	Wexford	Type II MSW Landfill
50	449252	Whitefeather Landfill	Bay	Type II MSW Landfill
51	444301	Wood Island Waste Management Inc	Alger	Type II MSW Landfill
52	412717	Woodland Meadows RDF-Van Buren	Wayne	Type II MSW Landfill

**Active Part 115 Solid Waste Landfills  
June 2008  
Michigan DEQ**

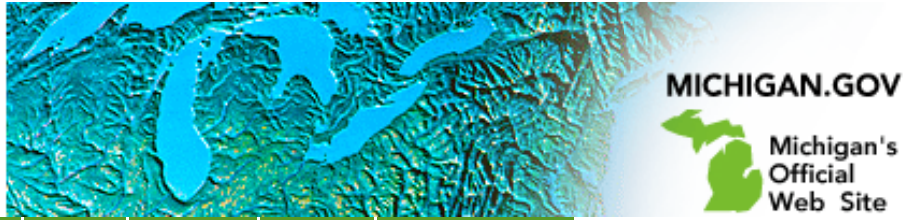
Map #	WDS Number	Name	County	Type of Landfill
53	396814	St Marys Cement Inc	Charlevoix	Type III Low Hazardous Waste Landfill
54	470471	City Of Livonia Landfill	Wayne	Type III C&D Waste Landfill
55	399611	Edward C Levy Co Landfill	Wayne	Type III Industrial Waste Landfill
56	392503	Consumers Energy Company DE Karn	Bay	Type III Low Hazardous Waste Landfill
57	392562	Detroit Edison Co Range Rd Ash Disposal	St Clair	Type III Industrial Waste Landfill
58	392616	Detroit Edison Co Sibley Quarry	Wayne	Type III Industrial Waste Landfill
59	397800	Monroe Power Plant	Monroe	Type III Surface Impoundment
61	395326	Esscanaba Paper Company	Delta	Type III Industrial Waste Landfill
62	439857	Great Lakes Pulp Company Type III Landfill	Menominee	Type III Industrial Waste Landfill
63	470344	Holland Public Works Zeeland Township Landfill	Ottawa	Type III Low Hazardous Waste Landfill
64	393008	Holcim US Inc Dundee Plant	Monroe	Type III Low Hazardous Waste Landfill
65	474294	CMP Quinnesec LLC	Dickinson	Type III Low Hazardous Waste Landfill
66	395457	JC Weadock	Bay	Type III Low Hazardous Waste Landfill
67	395496	Consumers Energy Co J H Campbell Complex	Ottawa	Type III Low Hazardous Waste Landfill
68	397664	Consumers Energy Company Whiting Plant Substation	Monroe	Type III Industrial Waste Landfill
69	437730	Kalamazoo Valley Group Low Hazard Type III	Kalamazoo	Type III Low Hazardous Waste Landfill
70	393642	Lafarge Midwest Inc	Alpena	Type III Industrial Waste Landfill
71	449656	Liberty Environmentalists Landfill	Jackson	Type III Industrial Waste Landfill
72	399676	Manistique Papers Inc	Schoolcraft	Type III Low Hazardous Waste Landfill
73	444069	Matlin Road Landfill	Monroe	Type III C&D Waste Landfill
74	395505	GMC Saginaw Metal Casting	Saginaw	Type III Low Hazardous Waste Landfill
76	470355	Sparta Foundry Waste Facility	Kent	Type III Industrial Waste Landfill
77	438977	Allied Waste Industries Rockwood Landfill	Monroe	Type III C&D Waste Landfill
78	397461	Smurfit Stone Container Corporation	Ontonagon	Type III Low Hazardous Waste Landfill
79	470397	Stora Enso North America Niagara Mill	Dickinson	Type III Low Hazardous Waste Landfill
81	397348	We Energies Presque Isle Power Plant	Marquette	Type III Low Hazardous Waste Landfill

**New but Non-Active Part 115 Solid Waste Landfills  
March 2010**

<b>MAP #</b>	<b>WDS ID #</b>	<b>NAME</b>	<b>COUNTY</b>	<b>TYPE OF LANDFILL</b>
	<a href="#">486585</a>	WOLVERINE POWER COOPERATIVE	Presque Isle	Type III Industrial Waste Landfill



Department of  
**NATURAL RESOURCES  
and ENVIRONMENT**



**MICHIGAN.GOV**  
Michigan's  
Official  
Web Site

- Michigan.gov Home
- DNRE
- DEQ
- Online Services
- Permits
- Programs
- Site Map
- Contacts

- Waste
- Hazardous and Liquid Industrial Waste
- Hazardous & Liquid Industrial Waste Transporters
- Low Level Radioactive Waste
- Medical Waste
- Radiological Protection
- Scrap Tires
- Solid Waste
- Waste Compliance & Enforcement

- Inside DEQ
- Key Topics
- News and Events
- Pollution Prevention
- Air
- Land
- Water
- Climate Change



Printer Friendly Text Version Text Size Share

## Autumn Hills Recycling And Disposal Facility

**Agency:** Environmental Quality

**Site ID:** MID985665025  
**WMD ID:** 409032

**Site Legal Name:** WASTE MANAGEMENT OF MICHIGAN INC  
**Site Specific Name:** AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY

**District:** GRAND RAPIDS

**Facility Address:** 700 56TH AVENUE  
ZEELAND, MI 49464

**County:** OTTAWA

**Announcements:** None at this time.

**Current Construction Permit:** Current Construction Permit

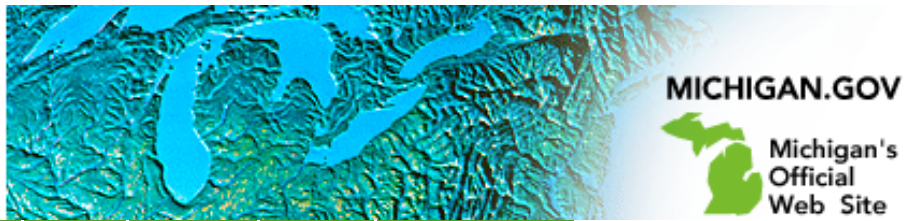
**Current License:** [Current Operating License](#)

**Other Pertinent Information:** None at this time.

**For more information, please use the WDS Web Inquiry System link:** [Waste Data System \(WDS\)](#)

- MI Business One Stop
- Departments/Agencies
- Online Services
- Surveys
- RSS Feeds
- Related Content

- Hiawatha Shores Landfill, Inc.
- Sparta Foundry Waste Facility
- South Kent Landfill
- McGill Road Landfill
- Manistee County Landfill, Inc.
- Peoples Landfill, Inc.
- Pine Tree Acres, Inc.
- Pitsch Sanitary Landfill
- Southeast Berrien County Landfill
- Tri-City Recycling And Disposal Facility
- Venice Park Recycling & Disposal Facility
- Vienna Junction Industrial Park Sanitary Landfill
- Westside Recycling & Disposal Facility
- Wood Island Waste Management, Inc.
- Woodland Meadows RDF-Van Buren
- St. Marys Cement, Inc.
- JH Campbell Complex
- Manistique Papers, Inc.
- Dafter Sanitary Landfill
- Wolverine Power Cooperative



<a href="#">Michigan.gov Home</a>	<a href="#">DNRE</a>	<a href="#">DEQ</a>	<a href="#">Online Services</a>	<a href="#">Permits</a>	<a href="#">Programs</a>	<a href="#">Site Map</a>	<a href="#">Contacts</a>
-----------------------------------	----------------------	---------------------	---------------------------------	-------------------------	--------------------------	--------------------------	--------------------------

**Waste**

Printer Friendly Text Version A- A+ Text Size Share

**Ottawa County Farms Landfill**

- [Hazardous and Liquid Industrial Waste](#)
- [Hazardous & Liquid Industrial Waste Transporters](#)
- [Low Level Radioactive Waste](#)
- [Medical Waste](#)
- [Radiological Protection](#)
- [Scrap Tires](#)
- [Solid Waste](#)**
- [Waste Compliance & Enforcement](#)

**Agency:** Environmental Quality

**Site ID:** MID985582097  
**WMD ID:** 403061

**Site Legal Name:** OTTAWA COUNTY LANDFILL INC  
**Site Specific Name:** OTTAWA COUNTY FARMS LANDFILL

**District:** GRAND RAPIDS

**Facility Address:** 15550 68TH AVE  
COOPERSVILLE, MI 49404

**County:** OTTAWA

**Announcements:** None at this time.

**Current Construction Permit:** Current Construction Permit

**Current License:** [Current Operating License](#)

**Other Pertinent Information:** None at this time.

**For more information, please use the WDS Web Inquiry System link:** [Waste Data System \(WDS\)](#)

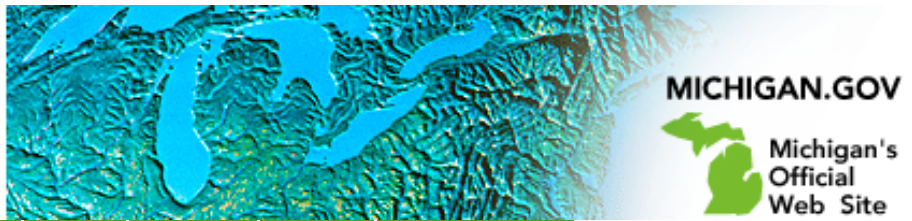
- [Inside DEQ](#)
- [Key Topics](#)
- [News and Events](#)
- [Pollution Prevention](#)
- [Air](#)
- [Land](#)
- [Water](#)
- [Climate Change](#)



- [MI Business One Stop](#)
- [Departments/Agencies](#)
- [Online Services](#)
- [Surveys](#)
- [RSS Feeds](#)
- Related Content**

- Hiawatha Shores Landfill, Inc.
- Sparta Foundry Waste Facility
- South Kent Landfill
- McGill Road Landfill
- Manistee County Landfill, Inc.
- Peoples Landfill, Inc.
- Pine Tree Acres, Inc.
- Pitsch Sanitary Landfill
- Southeast Berrien County Landfill
- Tri-City Recycling And Disposal Facility
- Venice Park Recycling & Disposal Facility
- Vienna Junction Industrial Park Sanitary Landfill
- Westside Recycling & Disposal Facility
- Wood Island Waste Management, Inc.
- Woodland Meadows RDF-Van Buren
- St. Marys Cement, Inc.
- JH Campbell Complex
- Manistique Papers, Inc.
- Dafer Sanitary Landfill
- Wolverine Power Cooperative





<a href="#">Michigan.gov Home</a>	<a href="#">DNRE</a>	<a href="#">DEQ</a>	<a href="#">Online Services</a>	<a href="#">Permits</a>	<a href="#">Programs</a>	<a href="#">Site Map</a>	<a href="#">Contacts</a>
-----------------------------------	----------------------	---------------------	---------------------------------	-------------------------	--------------------------	--------------------------	--------------------------

**Waste**

Printer Friendly Text Version A- A+ Text Size Share

**Holland Public Works Landfill**

**Agency:** Environmental Quality

**Site ID:**

**WMD ID:** 470344

**Site Legal Name:**

HOLLAND BOARD OF PUBLIC WORKS

**Site Specific Name:**

HOLLAND PUBLIC WORKS ZEELAND TOWNSHIP LANDFILL

**District:**

GRAND RAPIDS

**Facility Address:**

1130 56TH STREET  
ZEELAND, MI 49464

**County:**

OTTAWA

**Announcements:**

None at this time.

**Current Construction Permit:**

Current Construction Permit

**Current License:**

Current Operating License

**Other Pertinent Information:**

None at this time.

**For more information, please use the WDS Web Inquiry System link:**

[Waste Data System \(WDS\)](#)

**Hazardous and Liquid Industrial Waste**

**Hazardous & Liquid Industrial Waste Transporters**

**Low Level Radioactive Waste**

**Medical Waste**

**Radiological Protection**

**Scrap Tires**

**Solid Waste**

**Waste Compliance & Enforcement**

**Inside DEQ**

**Key Topics**

**News and Events**

**Pollution Prevention**

**Air**

**Land**

**Water**

**Climate Change**



**MI Business One Stop**

[Departments/Agencies](#)

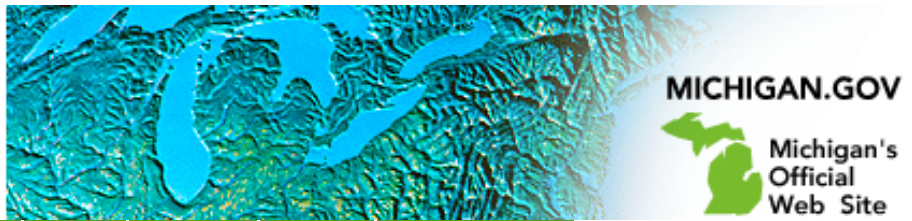
[Online Services](#)

[Surveys](#)

[RSS Feeds](#)

**Related Content**

- Hiawatha Shores Landfill, Inc.
- Sparta Foundry Waste Facility
- South Kent Landfill
- McGill Road Landfill
- Manistee County Landfill, Inc.
- Peoples Landfill, Inc.
- Pine Tree Acres, Inc.
- Pitsch Sanitary Landfill
- Southeast Berrien County Landfill
- Tri-City Recycling And Disposal Facility
- Venice Park Recycling & Disposal Facility
- Vienna Junction Industrial Park Sanitary Landfill
- Westside Recycling & Disposal Facility
- Wood Island Waste Management, Inc.
- Woodland Meadows RDF-Van Buren
- St. Marys Cement, Inc.
- JH Campbell Complex
- Manistique Papers, Inc.
- Dafer Sanitary Landfill
- Wolverine Power Cooperative



<a href="#">Michigan.gov Home</a>	<a href="#">DNRE</a>	<a href="#">DEQ</a>	<a href="#">Online Services</a>	<a href="#">Permits</a>	<a href="#">Programs</a>	<a href="#">Site Map</a>	<a href="#">Contacts</a>
-----------------------------------	----------------------	---------------------	---------------------------------	-------------------------	--------------------------	--------------------------	--------------------------

**Waste**

- [Hazardous and Liquid Industrial Waste](#)
- [Hazardous & Liquid Industrial Waste Transporters](#)
- [Low Level Radioactive Waste](#)
- [Medical Waste](#)
- [Radiological Protection](#)
- [Scrap Tires](#)
- [Solid Waste](#)
- [Waste Compliance & Enforcement](#)

- [Inside DEQ](#)
- [Key Topics](#)
- [News and Events](#)
- [Pollution Prevention](#)
- [Air](#)
- [Land](#)
- [Water](#)
- [Climate Change](#)



Printer Friendly Text Version A- A+ Text Size Share

**JH Campbell Complex**

**Agency:** Environmental Quality

**Site ID:** MID041409954  
**WMD ID:** 395496  
**Site Legal Name:** CONSUMERS ENERGY CO  
**Site Specific Name:** J H CAMPBELL COMPLEX  
**District:** GRAND RAPIDS  
**Facility Address:** 17000 CROSWELL ST SITE A WEST OLIVE, MI 49460  
**County:** OTTAWA  
**Announcements:** None at this time.  
**Current Construction Permit:** Current Construction Permit  
**Current License:** Current Operating License  
**Other Pertinent Information:** None at this time.  
**For more information, please use the WDS Web Inquiry System link:** [Waste Data System \(WDS\)](#)

- [MI Business One Stop](#)
- [Departments/Agencies](#)
- [Online Services](#)
- [Surveys](#)
- [RSS Feeds](#)
- [Related Content](#)

- Hiawatha Shores Landfill, Inc.
- Sparta Foundry Waste Facility
- South Kent Landfill
- McGill Road Landfill
- Manistee County Landfill, Inc.
- Peoples Landfill, Inc.
- Pine Tree Acres, Inc.
- Pitsch Sanitary Landfill
- Southeast Berrien County Landfill
- Tri-City Recycling And Disposal Facility
- Venice Park Recycling & Disposal Facility
- Vienna Junction Industrial Park Sanitary Landfill
- Westside Recycling & Disposal Facility
- Wood Island Waste Management, Inc.
- Woodland Meadows RDF-Van Buren
- St. Marys Cement, Inc.
- Manistique Papers, Inc.
- Dafter Sanitary Landfill
- Wolverine Power Cooperative
- Montmorency-Oscoda-Alpena Landfil

# **Appendix H**

## **Part 201 Sites**

A "facility" is defined by Part 201 as any area, place or property where there is a release of a hazardous substance in an amount that exceeds the established state cleanup standard for residential property. The data is current through 4/7/2010

#### Part 201 Sites

Site ID	Site Name	Address	City	Zip Code	County	Source	Pollutant	Score (out of 48)	Score Date	Township	Range	Section	Quarter	Q-Quarter	Overall Status
'03000021'	Millies Industrial Painting	4637 60th Street	Holland	49423	Allegan	Paints & Allied Products	As; Ethylbenzene; Toluene; Xylenes	15	3/30/2004	04N	15W	6	SW	SW	Inactive - no actions taken to address contamination
'03000053'	Res Well Ottogan	8000 Ottogan	Holland	49423	Allegan	Unknown	1,2 DCP; THF	17	3/29/2004	04N	14W	4	NW	NE	Evaluation in progress
'03000233'	48th Street (345) E.	345 E. 48th St.	Holland	49423	Allegan			32	3/23/2005	4N	15W	9	NW	NW	Inactive - no actions taken to address contamination
'03000234'	48th Street (635) E.	635 E. 48th Street	Holland	49423	Allegan			36	3/23/2005						Interim Response in progress
'03000199'	Part of Lot 10 - Graafschap	1271 60th Street (adjacent to)	Graafschap		Allegan	Unknown	Phenanthrene	15	8/20/1997	04N	15W	7	NW	NW	Deleted - available documentation does not support listing
'03000243'	Washington Ave (1111, 1147), Holland	1111, 1145, 1147 S. Washington Ave	Holland		Allegan	Misc Manufacturing Industries	Pb; VC; Metals; PNAs	32	11/16/2009	04N	15W	5	SW	SW	Inactive - no actions taken to address contamination
'70000003'	Estech Inc.	13329 James Street	Holland	49423	Ottawa	Agricultural Chemicals	Ammonia; Nitrate; Sulfate	28	6/18/2004	05N	15W	17	SW	SE	Interim Response in progress
'70000005'	Hart & Cooley Mfg. Co.	500 East 8th Street	Holland	49423	Ottawa	Misc Manufacturing Industries	Cd; Cr+6; Cu; CN; Pb; Ni; PNAs	35	6/21/2004	05N	15W	28	SW	NE	Interim Response in progress
'70000007'	Holland Twp. Park Dump	14000 Quincy Street	Holland	49423	Ottawa	Refuse Systems	Benzene; Pb; TCE	40	7/25/2005	05N	15W	6	SW	SE	Evaluation in progress
'70000008'	Houting Property	4713 120th Ave.	Holland	49423	Ottawa	Gasoline Service Station	Benzene; Toluene; Xylenes	25	4/7/2004	05N	15W	4	NE	NE	See Leaking Underground Storage Tank Site Database
'70000010'	Waste Management-Holland Lagoons	2700 N. 168th Avenue	Holland	49423	Ottawa	Unknown	Benzene; Chlorobenzene; Ethylbenzene; Fe; Pb; TCE	28	11/6/2006	05N	16W	15	SW	NW	Interim Response in progress
'70000015'	Res Well Waukazoo St	111 Waukazoo St.	Holland	49423	Ottawa	Unknown	Benzene; Xylenes	29	6/23/2004	05N	16W	25	NW	NW	Interim Response in progress
'70000024'	Southwest Ottawa County Landfill	2901 N. 160th Ave	Holland	49423	Ottawa	Refuse Systems	Benzene; Ethylbenzene; Toluene; Xylenes	41	11/6/2006	05N	16W	15	NE	SE	Remedial Action in Progress (may incl. use restrictions, O&M and/or monitoring)
'70000025'	Texaco - Holland Terminal	630 Ottawa Avenue	Holland	49423	Ottawa	Petroleum & Coal Products	Benzene; Toluene; Xylenes	39	10/8/2004	05N	15W	31	SW	NE	Interim Response in progress
'70000044'	Parke Davis	188 Howard Avenue	Holland	49423	Ottawa	Pharmaceutical Preparations	Benzene; Chlorobenzene; Toluene	30	8/18/1991	05N	15W	20	SW	SW	Interim Response in progress
'70000277'	Riverview Development	87/97 East Eighth Street	Holland	49423	Ottawa	Laundry Dry Cleaner	PCE	27	3/26/2004	05N	16W	29	NE	SE	Interim Response conducted - No further activities anticipated
'70000385'	Heinz North America	431 W. 16th Street	Holland	49423	Ottawa	Food & Kindred Products	Cl	31	11/30/2005	5N	15W	30	SW	SE	Interim Response in progress
'70000391'	Northern Fibre Products	13370 Barry	West Olive	49423	Ottawa	Nonclassifiable Establishments	Sulfate	23	10/26/2004	6N	15W	32	NW	SE	Interim Response conducted

'70000416'	170 & 175 Mill, 135 W. 8th	170 & 175 Mill, 135 W. 8th	Holland	49423	Ottawa		As; Benzene; Ethylbenzene; Naphthalene; Toluene; Xylenes	41	7/17/2007	5N	15W	29	NW	SW	Inactive - no actions taken to address contamination
'70000127'	Bayshore Marina	1862 Ottawa Beach Rd.	Holland	49424	Ottawa	Water Transportation	Benzene; Toluene; Xylenes; PNAs	29	11/3/2004	05N	16W	27	NE	SW	Remedial Action in Progress (may incl. use restrictions, O&M and/or monitoring)
'70000217'	General Electric-Hermetic Motors	570 E. 16th Street	Holland	49424	Ottawa	Indus Commercial Mach & Comp	1,1,1 TCA; PCE; TCE	29	3/29/2004	05N	15W	33	NE	NW	Remedial Action in Progress (may incl. use restrictions, O&M and/or monitoring)
'70000270'	BASF-Howard Street	471 Howard Street	Holland	49424	Ottawa	Paints & Allied Products	1,2,4 TCB; 1,3 DCB; 1,4 DCB; Chlorobenzene; Ethylbenzene	36	10/8/2004	05N	15W	30	NW	NW	Interim Response in progress
'70000406'	11531 Chicago Drive	11531 Chicago Drive	Holland	49424	Ottawa	Nonclassifiable Establishments	Al; As; PCE	39	12/19/2006	5N	15W	22	SE	NW	Inactive - no actions taken to address contamination
'70000410'	151 East 8th St	141 8th St/124 7th St	Holland	49424	Ottawa		1,2,4 TMB; Benzene; PCE; Xylenes	20	3/23/2007	5N	15W	29	NE	SE	Inactive - no actions taken to address contamination
'70000418'	7850 112th Street	7850 112 th Street	Holland	49424	Ottawa										Evaluation in progress
'70000019'	Sanico South	152nd & Crosswell St	West Olive	49460	Ottawa	Refuse Systems	Pb; BEHP; Heavy mfg	25	7/11/2005	06N	16W	12	NW	NE	Inactive - no actions taken to address contamination
'70000027'	Res Well West Washington	316 W Washington	Zeeland	49464	Ottawa	Unknown	Benzene	28	6/23/2004	05N	15W	13	SE	SW	Interim Response in progress
'70000047'	Overbeck Residential Wells	248 W Washington	Zeeland	49464	Ottawa	Private Households	PCE; TCE	23	11/13/1990	05N	15W	13	SE	SW	Deleted - available documentation does not support listing
'70000320'	5860 Byron Road	5860 Byron Road	Zeeland	49464	Ottawa	Private Households	PCE	19	5/23/2006	5N	14W	23	NE	NW	Inactive - no actions taken to address contamination
'70000326'	Ottawa Polishing & Buffing (Frm)	10030 Stanton Street	Borculo	49464	Ottawa	Miscellaneous Metal Work	Cu; Pb; Ni	27	7/21/2005	06N	15W	1	SW	NE	Interim Response in progress
'70000344'	Mead-Johnson & Company	725 Main Street	Zeeland	49464	Ottawa	Food & Kindred Products	Benzo(a)anthracene; Naphthalene; Phenanthrene	15	10/26/2004	5N	14W	18	SE	SE	Evaluation in progress
'70000388'	Keeler Brass	311 North Centennial Street	Zeeland	49464	Ottawa	Plating & Polishing	Cd; Cu; Pb; Zn	37	10/26/2004	5N	14W	18	SW	NE	Inactive - no actions taken to address contamination
'70000396'	Garfield Avenue, 340 East	340 East Garfield Avenue	Zeeland	49464	Ottawa			23	1/3/2007	5N	14W	18	SW	NE	Inactive - no actions taken to address contamination
'70000403'	371 N. Centennial	371 N. Centennial	Zeeland	49464	Ottawa	Plastics Products	Formaldehyde	37	1/4/2007	5N	14W	18	SW	NE	Inactive - no actions taken to address contamination
'70000404'	475 W. Washington Ave	475 W. Washington Ave	Zeeland	49464	Ottawa	Road Commission	Cl	30	1/4/2007	5N	15W	13	SW	SE	Inactive - no actions taken to address contamination
'70000411'	155 & 157 E. Washington	155 & 157 E. Washington Ave	Zeeland	49464	Ottawa		Xylenes	29	4/5/2007	5N	14W	18	SE	SW	Inactive - no actions taken to address contamination

'70000417'	6640 96th Ave	6640 96th Ave	Zeeland	49464	Ottawa	Lumber & Wood Products	1,2,4 TMB; 1,3,5 TMB; 2-Methylnaphthalene; Acenaphthene; Benzene; Ethylbenzene; Fluoranthene; Fluorene; Naphthalene; Phenanthrene; Toluene; Xylenes	37	8/8/2007	6N	14W	19	SW	NW	Inactive - no actions taken to address contamination
'70000013'	Res Well 104th Ave	9120 104th Street	Zeeland		Ottawa	Unknown		14	8/16/1991	06N	15W	1	SW	NW	Delisted - no longer meets criteria specified in rules

**PART 201  
CITIZEN'S  
GUIDE**

# What You Need to Know If You Own or Purchase Property with Environmental Contamination

This fact sheet will help you understand how Michigan's environmental cleanup programs affect you as a property owner, operator or potential purchaser of contaminated property. While all your questions cannot possibly be addressed in these few pages, you can find out more about the state cleanup program by:

■ Writing or calling us -- the Department of Environmental Quality (DEQ), Remediation and Redevelopment Division (RRD) -- at the address and phone number provided below. We'll make sure to connect you with the right person for help with your specific questions, and we'll send you the technical guidance you need to comply with the law.

■ Visiting our Internet Home Page. Our Web Site has a complete version of the law regulating Michigan's revitalization and cleanup programs, along with other related information: [www.michigan.gov/deqrrd](http://www.michigan.gov/deqrrd).

**◀◀ NOTE ▶▶**

This is a guidance document from the Michigan Department of Environmental Quality (DEQ). A thorough review of the statute, administrative rules and guidelines should be completed before making site-specific decisions.

The Part 201 statute, Administrative Rules and guidelines are available electronically at this DEQ/RRD web site: [www.michigan.gov/deqrrd](http://www.michigan.gov/deqrrd).

## **PART 201: THE LAW GUIDING MICHIGAN'S CLEANUP PROGRAM**

Part 201 (Environmental Remediation) of the Natural Resources and Environmental Protection Act (1994 PA 451, as amended) regulates most sites of environmental contamination in Michigan. The Part 201 cleanup program is administered by the RRD.

The RRD is your source for more information on all of the issues discussed here. However, some contaminated sites are controlled by other parts of NREPA, such as: leaking underground storage tanks (Part 213); treatment, storage and disposal sites (Part 111); waste disposal areas (Part 115); oil, gas and mineral wells (Parts 615, 625). You can get information about these other requirements by calling the DEQ at 1-800-662-9278 or visiting [www.michigan.gov/deq](http://www.michigan.gov/deq).

There are also federal cleanup laws and requirements that may affect you, including liability under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, or Superfund), and the Resource Conservation and Recovery Act (RCRA).

Contact us if you have questions about liability under CERCLA or other laws.

## **ARE YOU LIABLE FOR A SITE OF CONTAMINATION?**

Under Part 201, 213, 615 and 625, you are not liable for the cost of cleanup actions if:

1) you are not responsible for causing a release of a hazardous substance; and you became an owner or operator of contaminated property

A fact sheet on Michigan's environmental cleanup program from...



Michigan Department of Environmental Quality  
Remediation and Redevelopment Division

PO Box 30426

Lansing, MI 48909-7926

Main Telephone: 517-373-9837

Internet: <http://www.michigan.gov/deqrrd>

Jennifer M. Granholm, Governor \* Steven E. Chester, Director

before June 5, 1995 (or March 6, 1996 for sites regulated under Part 213);

**OR**

2) you become the owner or operator of a contaminated property on or AFTER June 5, 1995 (or March 6, 1996 for Part 213 sites), and you were not responsible for the release that caused the contamination, and you conduct an adequate Baseline Environmental Assessment (BEA) for your property prior to or within 45 days of becoming the owner or operator, and you submit the BEA to the DEQ within the required timeframes, and you disclose the results of the BEA to subsequent purchasers or transferees. (see *Baseline Environmental Assessments*)

The same liability principles apply to people who control, but do not own, property. We call them "operators." People who lease property will often be operators.

## DO YOU HAVE TO CLEAN UP CONTAMINATED PROPERTY?

A "facility" is defined by Part 201 as any area, place or property where hazardous substance in excess of the established state cleanup standard for residential property has been released, deposited, disposed of, or otherwise comes to be located (see *Cleanup Standards*). Property is no longer a facility when actions to remove, reduce or treat the contamination are completed, lowering the amount of contamination to a level that is below the residential cleanup standards.

If you are liable for a facility, you are obligated by law to take appropriate response actions at that property. In particular, if you currently own or operate property that you know is a facility and you caused the contamination or are otherwise liable, your obligations include: immediately stopping a release at its source; controlling or eliminating any fire, explosion and direct contact hazard; removing certain liquid wastes and highly contaminated soils; investigating the nature and extent of the

contamination; and taking actions to clean up the contamination and prevent exposure to contamination.

## DUE CARE OBLIGATIONS SECTION 20107a

Owners and operators of a facility, even if you are not liable for the contamination, have "due care" obligations.

Section 20107a of Part 201 specifically requires owners and operators to take due care measures to ensure that existing contamination on a property does not cause unacceptable risks and is not exacerbated. An owner or operator of a facility shall do all of the following with respect to contamination existing at the facility:

- ▶ Prevent exacerbation of the existing contamination.
- ▶ Prevent unacceptable human exposure and mitigate fire and explosion hazards to allow for the intended use of the facility in a manner that protects the public health and safety.
- ▶ Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party.
- ▶ Provide notification to the RRD and others.

Measures may include response actions such as providing alternate water or a barrier over contaminated soil to prevent people from drinking contaminated groundwater or being in contact with contaminated soil. What measures are needed is determined by evaluating both the site use and the existing contamination. Due care requirements are not related to the owner or operator's liability for the contaminants; they apply to non-labile parties and liable parties alike. The due care requirements were designed so contaminated properties could be safely used and redeveloped.



## BASELINE ENVIRONMENTAL ASSESSMENTS

A properly conducted Baseline Environmental Assessment (BEA) allows people to acquire or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

A BEA is only performed on a property which is a facility. The only sure way to find out if a property is a facility is by evaluating the property and its history. You should review past activity on the property including land and chemical use, review regulatory agency files on the property, visually survey the property to look for signs of soil staining or other indicators of possible contamination, and collect soil and groundwater samples.

The level of effort required to do an adequate BEA will vary with the type and amount of contamination on the property in question and the proposed hazardous substance use. If you will use no hazardous substances or different hazardous substances than those present at the property, a BEA is relatively simple to do.

If you are planning to use the same hazardous substances that are present at the property, a BEA can be more complex and costly to complete since your assessment must allow for distinguishing any new release from old releases. In some cases, engineering controls or isolation zones can be used to distinguish new releases from old.

Most property owners rely on a professional consultant to conduct site studies and a BEA.

If you want to take advantage of the liability protection under Part 201, as a new owner or operator you must:

1) Conduct an adequate BEA prior to or within 45 days after the date of purchase, occupancy or foreclosure, whichever occurs first;

### **AND**

2) Disclose the results of the BEA to the DEQ and subsequent purchasers and lessees.

Residential property owners are exempt from liability and the need to conduct a BEA if hazardous substance use at the property will be consistent with normal residential use. This includes chemical lawn treatments, paints, cleaners and other household products in quantities found in a typical home. There are also other limited exemptions to the requirement to perform a BEA, including exemptions for commercial lessees. However, it may be necessary in these cases to gather data to determine appropriate "due care" measures and potential limitations on the property use to prevent unacceptable exposures.

The BEA must be submitted to the DEQ within eight months of the date of purchase, occupancy or foreclosure, whichever comes first. You can choose to formally petition the DEQ to review the BEA within six months of completion of the BEA. There is a \$750.00 fee for this review and formal determination. For more information on preparing and submitting a BEA, and along with BEA instructions and forms, please visit the DEQ Web Site at [www.michigan.gov/bea](http://www.michigan.gov/bea).

Completing a BEA can give you liability protection for existing contamination, which means you won't have to pay for cleaning up contamination you didn't cause. Remember, however, that you still have "due care" obligations.

## CLEANUP STANDARDS

Part 201 authorizes the DEQ to set cleanup standards by considering how the contaminated land will be used in the future. Michigan's

cleanup standards are risk-based and reflect the potential for human health risk from exposure to potentially harmful substances at contamination sites. The RRD can send you cleanup standards and other technical guidance you will need to make use-based decisions about contaminated property.

If you are cleaning up a facility, you can choose an appropriate category of cleanup standard based on proposed site use. There are currently three main categories of land use-based cleanup standards: residential, commercial and industrial. The residential cleanup standards are the most restrictive criteria for site remediation, generally because it is assumed that there is the greatest opportunity for exposure to contamination in residential settings, especially for children. When a facility is cleaned up to residential standards, the property is considered safe for all uses.

If you propose to clean up your property based on commercial or industrial standards, you must demonstrate that your chosen category is appropriate for future land use and consistent with zoning at the property. No additional property restrictions are required, other than limiting the use of the property to commercial or industrial activities consistent with the zoning.

Three additional categories of cleanup standards include: limited residential, limited commercial, and limited industrial. These "limited" categories exist for circumstances that require restrictions on the use of property or the natural resources beyond just zoning limitations and may require exposure barriers (i.e., fencing, paving) or prohibitions on resource use (i.e., don't drink the groundwater) to keep people from being exposed to contamination now and in the future.

If you propose to clean up your property based on any of the limited categories, certain restrictions must be placed on the property deed

to ensure that the use restrictions and exposure barriers remain in place. Additionally, a legally enforceable agreement with the DEQ, and a financial insurance mechanism will be required.

Part 201 also provides for cleanups based on recreational land use. Cleanup standards will be established for each site based on the type of exposure for the specific type of recreational use (i.e., playgrounds, walking trails, sport fields, etc.).

### **WE WANT TO WORK WITH YOU!**

The most important thing to remember is that environmental solutions in Michigan depend on the nature and extent of the contamination and how you want to use the property: What kinds and quantities of contamination are present? Is there a chance that people will be exposed to the contamination? Has the contamination migrated off-site into groundwater, soil, lakes, streams or other natural resources? Each piece of property, each contamination scenario, and each proposed new use is different. Contact us directly to discuss your specific situation and your responsibilities under Part 201.

The DEQ is committed to working with owners, operators and purchasers of contaminated sites to make it easier and safer to redevelop property contaminated with hazardous substances.

If you would like to receive prompt, electronic e-mail notices of any new or updated documents we generate and post to our Internet Web Site, simply subscribe to the DEQ-RRD Listserver at [www.michigan.gov/deq](http://www.michigan.gov/deq) (select Inside DEQ, Contact DEQ, then select Environmental Listserver Subscriptions, then follow instructions to subscribe), and we will keep you posted!

*Revised October 2006*

# **Appendix I**

## **Superfund and Brownfield Sites**



**Superfund Sites**



EPA does not guarantee the accuracy, completeness, or timeliness of the information shown, and shall not be liable for any loss or injury resulting from reliance upon the information shown.

EnviroMapper for Superfund



## Region 5 Superfund (SF)

[Contact Us](#) **Search:** All EPA This Area

You are here: [EPA Home](#) [Region 5 Superfund](#) [NPL fact sheets](#) [Michigan](#) WASTE MANAGEMENT OF MICHIGAN (HOLLAND LAGOONS)

### WASTE MANAGEMENT OF MICHIGAN (HOLLAND LAGOONS)

**U.S. EPA REGION 5**  
OTTAWA COUNTY  
HOLLAND

**EPA ID# MID060179587**  
Last Updated: January, 2010

Congressional District # 02

### Site Description

The 82-acre Waste Management of Michigan - Holland Lagoons ("Holland Lagoons") site is located at 2700 N. 168th Avenue between Riley and James streets near Holland, Ottawa County, Michigan. The Holland Lagoons site is located about one-half mile from the eastern shore of Lake Michigan. The area is of mixed residential and agricultural use. The Southeast Ottawa County Landfill ("SOCL") Superfund site is adjacent to the Holland Lagoons site to the northeast.

The Holland Lagoons site was operated by Jacobusse's Refuse Service Company ("Jacobusse") from about 1945 until 1972 and by various successor companies, including Waste Management of Michigan ("WMI") until 1980. The site accepted solid and liquid wastes for disposal from about 1945 until 1980. Jacobusse constructed its headquarters and a maintenance facility for its fleet of trucks onsite as well.

From about 1957 to 1964, Jacobusse hauled municipal trash to an area in the middle of the Holland Lagoons site and burned it, burying only the burned remains in the ground. After 1964, Jacobusse hauled municipal trash to other area landfills instead.

Liquid industrial waste was placed into waste disposal ponds ("lagoons") from 1967 to 1978. Liquid wastes deposited into the lagoons during that time include cider vinegar tank settlings, liquid/sludges from an organic pigment plant, metal hydroxides, wet milk and food processing bacterial digester sludges, and wastes from an area specialty-chemicals company.

- [Region 5 Home](#)
- [Region 5 Superfund Home](#)

- [About Us](#)
- [Long-term Cleanup](#)
- [Emergency Response and Removal](#)
- [Brownfields Program](#)
- [Revitalization and Redevelopment](#)
- [Oil Program](#)
- [Ecological Risk](#)
- [Field Support](#)

The lagoons were abandoned in 1978, and the sludges were excavated, mixed with lime to stabilize them, and hauled to the SOCL for disposal. WMI later excavated discolored soils from the haul road as it was suspected that these soils contained sludges that spilled from the trucks that hauled the lagoon wastes to the SOCL.

The Ottawa County Health Department allowed the disposal of 43 drums of technical grade chloral hydrate at the site in 1968. The state located and successfully removed the still intact drums in August 1980 for offsite disposal.

Pursuant to CERCLA, U.S. EPA inspected the Holland Lagoons site in 1982. Subsequent to the submittal of the Site Inspection report, U.S. EPA proposed the Holland Lagoons site to the National Priorities List ("NPL") on October 15, 1984 and added it to the final list on June 10, 1986.

## Site Responsibility

The WMM site is being addressed through a combination of state and potentially responsible party (PRP) actions.

## Threats and Contaminants

WMI performed a remedial investigation ("RI") and baseline risk assessment, including an ecological assessment at the site from 1994-1996. Groundwater sampling results showed that there is a volatile organic compound ("VOC") contaminant plume beneath the site; however, one source of the plume is likely the SOCL site, which is immediately upgradient of the Holland Lagoons site. The SOCL has a groundwater contaminant problem that Ottawa County has been trying to mitigate by operating a pump and treat action at the SOCL, but it does not appear to be fully preventing the advance of the contaminant plume. For example, benzene is present in some Holland Lagoons site monitor wells at levels above the state generic cleanup standard. This compound is also found offsite in upgradient monitor wells at similar levels. Additionally, acetone was found at high levels in some Holland Lagoons site wells during the initial sampling rounds, but that data quality was questioned. Sampling procedures were modified during later rounds and acetone was subsequently not found to be above the state residential cleanup standard.

Groundwater sampling during the RI has also demonstrated that arsenic and other metals are present in a few onsite monitor wells above state generic residential cleanup standards. The levels of contamination and the pattern of detections are consistent with contaminants from the upgradient source at the SOCL. Similar wastes were disposed of at both sites; however, the identified source areas at the Holland Lagoons site have been removed.

MDEQ has been unable to establish a causal link between the Holland

Lagoons site and the current groundwater contamination. Lastly, three metals were detected slightly above generic residential criteria, but they have not been found in the upgradient wells. Subsequent sampling indicated that of these three metals, only cadmium currently exceeds the residential criteria. This exceedance, though, may be attributed to well construction issues; for example, there is silt in the well, and the metal was detected in "total metal" analyses but not in "dissolved metal" analyses.

The slight potential health risks are mitigated by the fact that surrounding homes are on the municipal water supply. Also, Ottawa County Health Code stipulates that the county will not issue a permit to install a domestic well within an area that does not meet National Primary Drinking Water regulations. Due to the VOC contaminant plume migrating from the SOCL, Ottawa County will not likely issue a permit to install a domestic well on the Holland Lagoons site.

The ecological assessment identified no ecological risks at the site.

## **Cleanup Progress**

WMI removed four underground storage tanks from within the truck maintenance area in 1985. Concurrent to the RI, WMI performed an interim response action at the site by excavating discolored soils plausibly contaminated with heavy metals on the haul road and from other onsite areas and to remove general surface debris from the site. WMI also excavated the former municipal trash landfill area and disposed of the material offsite. All subsequent soil samples showed levels of metals at or below state generic residential criteria or background values.

WMI produced a final draft Feasibility Study ("FS") and Remedial Action Plan ("RAP") for the site in January 1998. The RAP recommended that No Action be taken at the Holland Lagoons site and that institutional controls be placed on the property deed, due to the groundwater contamination migrating from the SOCL and impacting groundwater quality beneath the Holland Lagoons site.

The U.S. EPA remedial project manager ("RPM") and the state project manager conducted a prefinal inspection of the Holland Lagoons site on May 31, 2001, and the RPM developed a punch list of minor tasks to be completed by WMI. The RPM later provided WMI with the punch list and a schedule for completion of those items within the following month.

WMI completed the punch list items on July 31, 2001, and submitted to the state in consultation with U.S. EPA, a final RAP for review and approval. The final RAP called for No Further Action to be implemented at the site and for the placement of a deed restriction on the site due to the groundwater contaminant plume emanating from the SOCL. The deed restrictions were recommended because, in part, MDEQ does not consider the county health code provision to meet the requirements of a "reliable use restriction" under state cleanup rules (Part 201). WMI placed a deed restriction on the property in August 1997 and offered to monitor site groundwater quality for a five-year period (approximately until the SOCL plume situation perhaps can be stabilized). The state is currently reviewing the RAP. A Preliminary Close-Out Report completed in September 2001 documented that all construction activity has been completed, however, WMI remains responsible for monitoring site groundwater quality for a five-year period.

WMI reportedly has been developing a site reuse or redevelopment plan for implementation upon state approval of the RAP.

The first Five-Year Review Report was completed in September 2006 and it was determined that the cleanup continues to protect human health and the environment in the short-term. However, long-term protectiveness is dependent upon effective deed restrictions, as designated in the final RAP. The next five-year review will be completed in 2011.

The state approved the Final RAP on April 9, 2009 which was submitted in February 2008.

## Contacts

Remedial Project Manager, U.S. EPA  
[denise boone](mailto:boone.denise@epa.gov) (boone.denise@epa.gov)  
(312) 886-6217

Community Involvement Coordinator, U.S. EPA  
dave novak  
(312) 886-7478

## Aliases

JACOBUSSES REFUSE SERV  
WASTE MGMT OF MICHIGAN HOLLAND  
WASTE MANAGEMENT OF MICHIGAN (HOLLAND LA



WASTE MANAGEMENT OF MICHIGAN (HOLLAND)

## Site Profile Information

[This profile provides you with information](#) on EPA's cleanup progress at this Superfund site.

---

[EPA Home](#) [Privacy and Security Notice](#) [Contact Us](#)

Last updated on Tuesday, March 09, 2010

# Superfund Information Systems



[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search:

[EPA Home](#) > [Superfund](#) > [Sites](#) > [Superfund Information Systems](#) > [Search Superfund Site Information](#) > [Search Results](#) > WASTE MANAGEMENT OF MICHIGAN (HOLLAND LAGOONS)

- Superfund Site Information
- Site Documents
- Data Element Dictionary (DED)
- Order Superfund Products

## Superfund Site Progress Profile

### WASTE MANAGEMENT OF MICHIGAN (HOLLAND LAGOONS) (EPA

ID: MID060179587)

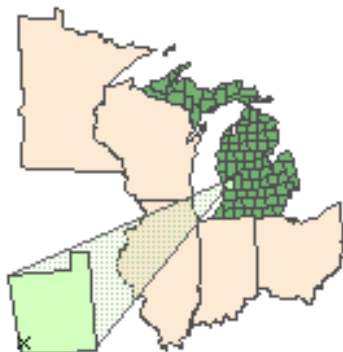
This profile provides you with information on EPA's cleanup progress at this Superfund site. This information includes: [Site Location](#), [Cleanup Progress Summary](#), [Cleanup Impact Summary](#), [Contamination](#), and [Cleanup Progress](#). Please use the links and the "More Details..." box to find more details on this site.

The data and content on this page were last updated on Wednesday, April 07, 2010.

#### More Details...

- [More In-Depth Site Details](#) (EPA Regional Content)
- [Site Contacts](#) (EPA Cleanup Managers, etc.)
- [Additional Site Documents](#)
- [Other Names for this Site](#) (Aliases)
- [View GPRA Measures at this Site](#) ([see glossary](#))

#### Site Location



[Get an interactive map](#)

#### [EPA Region 5](#) >

Serving Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin and 35 tribes

Site Address: 2700 N 168TH ST  
HOLLAND, Michigan  
49424

County: OTTAWA

U.S. Congressional District: 02

#### Cleanup Progress Summary



### Construction Complete

Physical cleanup activities have been completed.

[view detailed list of cleanup activities at this site >>](#)

The National Priorities List (NPL) is the list of the most hazardous sites across the U.S. and its territories.

This site is on the NPL and is known as a Final NPL site ([see glossary](#)).

#### Cleanup Impact Summary

At each site, EPA assesses the risk to humans and the environment and determines the best approach to address the risk. During initial site studies and cleanup, EPA determines if current human exposures to contaminants are under control and takes actions to control any possible human exposures until cleanup has been completed. Once complete, cleanup provides long-term human health and environmental protection at the site.



Current human exposures at this site are under control

[see glossary definition for "Human Exposure Environmental Indicator Measure." >>](#)

Population within one mile: 1,001-5,000

Potentially Responsible Party (PRP) was involved in the cleanup effort ([see glossary](#)).

Superfund law requires that EPA give communities information about site progress and plans so that they can be actively involved in site cleanup decisions. [Learn more about community involvement at this site >>](#)

At each site with known ground water contamination, EPA documents whether ground water contamination is below protective risk-based levels or, if not, whether the migration of contaminated ground water is stabilized.



Contaminated ground water migration is under control

[see glossary definition for "Contaminated Ground Water Migration Environmental Indicator Measure." >>](#)

## Contamination

Contaminants (i.e., hazardous substances, pollutants or contaminants) can be found in several different types of materials on the site including soil and other solid-based media and water or another liquid-based medium ([see glossary](#)).

EPA classifies contaminants found into groups or types.

The extent and types of contamination at this site have not yet been extensively investigated. Limited contaminated media and type of contamination information can be found in the [Site Narrative](#) provided at the time of site listing on the NPL.

[see glossary definition for "types of contaminants" >>](#)

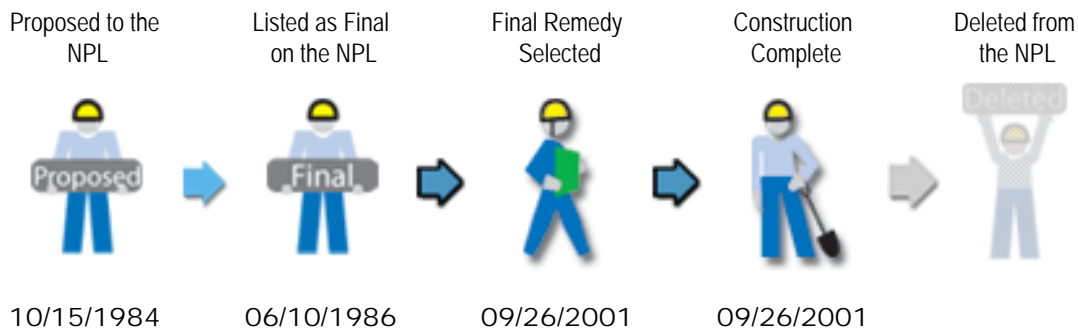
[ATSDR ToxFacts information on contaminants](#) [EXIT disclaimer >](#)

[^^ back to top](#) | [view glossary >>](#)

## Cleanup Progress

### Major Site Cleanup Milestones

[see glossary definitions for major site cleanup milestones >>](#)



### Cleanup Activities At This Site

[see glossary definitions for cleanup activities >>](#)

There are many stages of cleanup, including site study, remedy selection, remedy design, remedy construction, and post-construction. Activities undertaken early in the cleanup process focus on understanding problems at the site while those taken later in the cleanup process focus on physically addressing those problems identified.

Many NPL sites are large and complicated. These sites are often broken up into smaller areas to make cleanup easier and more manageable. These areas are called "Operable Units" or OUs ([see glossary](#)).

The chart below shows the different types of activities that are underway or complete at each of the cleanup areas (operable units) at the site. Some activities apply to the entire site; EPA assigns these activities to the site-wide operable unit (designated as OU 0).

Cleanup Areas (Operable Units)	Removal *	Study and Remedy Selection	Remedy Design	Remedy Construction	Post-Construction
OU 1		09/26/2001			
OU 0					

 Complete  Underway

[view activities details >>](#) [view OU details >>](#)  
[more in-depth site details](#) (EPA Regional Content)

\* At many sites an action, called a "Removal Action" ([see glossary](#)), must be taken to eliminate immediate and near-term threats to human health and the environment. Removal actions do not occur at all sites.

## Community Involvement

The goals of the Superfund community involvement (CI) program are to: 1) keep communities affected by sites informed throughout the cleanup process, 2) provide opportunities for communities to comment and offer their input about site cleanup plans, and 3) facilitate the resolution of community issues tied to a site. EPA accomplishes these goals by providing communities different tools and resources to support their site involvement. These resources include independent technical assistance so community members can understand the technical aspects of a site, a public forum for community members to present and discuss their needs and concerns related to the Superfund decision making process, and a job training program to encourage employment of local workers. These are just some of the CI program's resources; to learn more, go to <http://www.epa.gov/superfund/community/>.

To find out more about community involvement activities at this Superfund site and how you can become involved in site cleanup/reuse decisions, [view a list of contacts for this site >>](#).

## Land Reuse

EPA places a high priority on land revitalization as an integral part of its Superfund response program mission, so EPA tries to select cleanup options that encourage and support future use of a site. Sites made ready for use are deemed "Site-wide Ready for Anticipated Use" ([see glossary](#)), which means, in part, that all cleanup goals have been achieved for both current and reasonably anticipated future land use.

This site currently does not meet the criteria for Site-wide Ready for Anticipated Use, however parts of the site may be suitable for reuse.

## Post-Construction

Post-Construction ([see glossary](#)) is the stage following completion of the remedy construction. It includes, among other things, activities such as operating the remedy to address the contamination (e.g., ground water pump and treat); implementing, monitoring, and enforcing institutional controls; and a review of the implemented remedies at least every five years to ensure they continue to protect human health and the environment.

At some sites, one of the activities performed during post-construction completion is a five-year review ([see glossary](#)), which occurs at least every five years to ensure that the site remains protective of human health and the environment.

Last five-year review at this site:  
09/26/2006  
[view the last five-year review at this site >>](#)

Institutional controls ([see glossary](#)) such as administrative or legal restrictions may also be components of remedies at a site that remain in place post-construction completion.

[view a list of institutional controls at this site >>](#)

Sites or portions of sites may be deleted ([see glossary](#)) from the National Priorities List when all cleanup goals have been achieved.

This site has not been deleted from the National Priorities List

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

[Return to Search Results](#) | [Return to Search Superfund Site Information](#)

[OSWER Home](#) | [Superfund Home](#)

---

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

This page design was last updated on Tuesday, June 23, 2009  
Content is dynamically generated by ColdFusion



## Region 5 Superfund (SF)

[Contact Us](#) **Search:** All EPA This Area

You are here: [EPA Home](#) [Region 5 Superfund](#) [NPL fact sheets](#) [Michigan](#) [SOUTHWEST OTTAWA COUNTY LANDFILL](#)

### SOUTHWEST OTTAWA COUNTY LANDFILL

**U.S. EPA REGION 5**  
OTTAWA COUNTY  
PARK TOWNSHIP

**EPA ID# MID980608780**  
Last Updated: August, 2006

Congressional District # 02

#### Site Description

The 43-acre Southwest Ottawa County Landfill is located in Park Township, Michigan, and operated as a state licensed landfill until its closure in 1981. The landfill was constructed by Ottawa County in 1968 and received solvents; heavy metals; sludges; oils; municipal refuse; and drums, containing unspecified wastes. Lake Michigan is approximately one-half mile from the site in a mixed agricultural and residential area. Degradation of the groundwater has occurred and commingles with the adjacent site, Waste Management-Holland Lagoons. The major contaminants in the groundwater include: benzene, trichloroethylene (TCE), ethyl ether, chlorobenzene, xylene, and iron.

#### Site Responsibility

This site is being addressed through federal and state actions.

#### Threats and Contaminants

The major contaminants in the groundwater include: benzene, TCE, ethyl ether, chlorobenzene, xylene, and iron. The contamination of the subsurface soil below the landfill contributed to the groundwater contamination. The primary health threat of concern is drinking contaminated groundwater or eating plants irrigated with contaminated groundwater. The landfill is capped and fenced, minimizing the potential for contact.

#### Cleanup Progress

The Michigan Department of Environmental Quality (MDEQ) is the lead agency for this site. Under the Consent Order, issued by the state, the site was closed and capped in 1981. In 1984, a Groundwater Restoration Agreement (GRA) between Ottawa County and the state was signed and resulted in the installation of a groundwater purge, activated carbon adsorption, and an iron removal treatment system. In August 1992, the groundwater purge and treatment systems monitoring and sampling plan was amended to track the performance of two new purge wells that the state required the county to install to close gaps where breakthrough between original purge wells was occurring. In 1994, the county installed additional monitoring wells at the request of the state to monitor potential contamination, emanating from the northwest corner of the site. The state and the county have initiated negotiations to update the 1984 Groundwater Restoration Agreement and improve the performance of the selected remedy both in cost and effectiveness.

On October 27, 1997, with the cooperation of MDEQ, the United States Environmental Protection Agency (U.S. EPA) completed a second five-year

- [Region 5 Home](#)
- [Region 5 Superfund Home](#)

---

- [About Us](#)
- [Long-term Cleanup](#)
- [Emergency Response and Removal](#)
- [Brownfields Program](#)
- [Revitalization and Redevelopment](#)
- [Oil Program](#)
- [Ecological Risk](#)
- [Field Support](#)

review of the site. In this review, U.S. EPA concluded that the existing GRA continues to be protective of human health and the environment for organic contaminants. However, new information, concerning the presence of inorganic contaminants, suggests that the agreement may not be fully protective. MDEQ has done additional residential sampling and has determined that wells are not contaminated. The responsible party has conducted other additional sampling, and MDEQ is in the process of the reassessment of the chosen remedial alternative to ensure that it remains the most appropriate remedy. A third five-year review was done on this site in September 2003.

## Contacts

Remedial Project Manager, U.S. EPA  
[bernard.schorle](mailto:schorle.bernard@epa.gov) (schorle.bernard@epa.gov)  
(312) 886-4746

Community Involvement Coordinator, U.S. EPA  
stuart hill  
(312) 886-0689

## Aliases

SOUTH OTTAWA DISPOSAL CORP  
SOUTHWEST OTTAWA LDFL  
SOUTHWEST OTTAWA COUNTY LDFL

## Site Profile Information

[This profile provides you with information](#) on EPA's cleanup progress at this Superfund site.

---

[EPA Home](#) [Privacy and Security Notice](#) [Contact Us](#)

Last updated on Wednesday, November 26, 2008



## Superfund Information Systems



Superfund Site Information  
Site Documents  
Data Element Dictionary (DED)  
Order Superfund Products

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search:

[EPA Home](#) > [Superfund](#) > [Sites](#) > [Superfund Information Systems](#) > [Search Superfund Site Information](#) > [Search Results](#) >

SOUTHWEST OTTAWA COUNTY LANDFILL

## Superfund Site Progress Profile

### SOUTHWEST OTTAWA COUNTY LANDFILL (EPA ID: MID980608780)

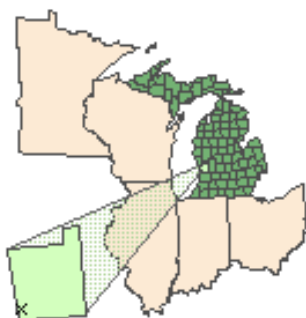
This profile provides you with information on EPA's cleanup progress at this Superfund site. This information includes: [Site Location](#), [Cleanup Progress Summary](#), [Cleanup Impact Summary](#), [Contamination](#), and [Cleanup Progress](#). Please use the links and the "More Details..." box to find more details on this site.

The data and content on this page were last updated on Wednesday, April 07, 2010.

#### More Details...

[More In-Depth Site Details](#) (EPA Regional Content)  
[Site Contacts](#) (EPA Cleanup Managers, etc.)  
[Additional Site Documents](#)  
[Other Names for this Site](#) (Aliases)  
[View GPRA Measures at this Site](#) (see [glossary](#))

#### Site Location



[Get an interactive map](#)

#### [EPA Region 5](#) >

Serving Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin and 35 tribes

Site Address: 2901 N 160TH AVE  
PARK TOWNSHIP, Michigan  
49424

County: OTTAWA

U.S. Congressional District: 02

Population within one mile: 1,001-5,000

#### Cleanup Progress Summary



### Construction Complete

Physical cleanup activities have been completed.

[view detailed list of cleanup activities at this site >>](#)

The National Priorities List (NPL) is the list of the most hazardous sites across the U.S. and its territories.

This site is on the NPL and is known as a Final NPL site ([see glossary](#)).

Potentially Responsible Party (PRP) was involved in the cleanup effort ([see glossary](#)).

Superfund law requires that EPA give communities information about site progress and plans so that they can be actively involved in site cleanup decisions. [Learn more about community involvement at this site >>](#)

#### Cleanup Impact Summary

At each site, EPA assesses the risk to humans and the environment and determines the best approach to address the risk. During initial site studies and cleanup, EPA determines if current human exposures to contaminants are under control and takes actions to control any possible human exposures until cleanup has been completed. Once complete, cleanup provides long-term human health and environmental protection at the site.



Current human exposures at this site are under control

[see glossary definition for "Human Exposure Environmental Indicator Measure." >>](#)

At each site with known ground water contamination, EPA documents whether ground water contamination is below protective risk-based levels or, if not, whether the migration of contaminated ground water is stabilized.



Contaminated ground water migration is not under control

[see glossary definition for "Contaminated Ground Water Migration Environmental Indicator Measure." >>](#)

## Contamination

Contaminants (i.e., hazardous substances, pollutants or contaminants) can be found in several different types of materials on the site including soil and other solid-based media and water or another liquid-based medium ([see glossary](#)).

Contaminated Media: Data not available

EPA classifies contaminants found into groups or types.

Types of Contaminants: Data not available

[see glossary definition for "types of contaminants" >>](#)

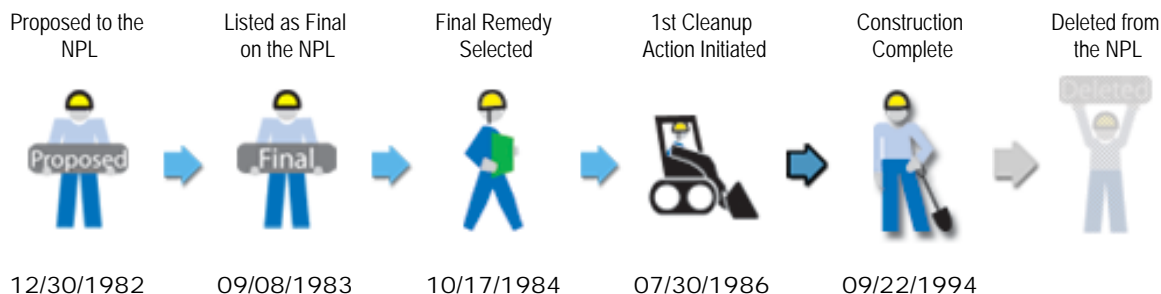
[ATSDR ToxFacts information on contaminants](#) [EXIT disclaimer >](#)

[^^ back to top](#) | [view glossary >>](#)

## Cleanup Progress

### Major Site Cleanup Milestones

[see glossary definitions for major site cleanup milestones >>](#)



### Cleanup Activities At This Site

[see glossary definitions for cleanup activities >>](#)

There are many stages of cleanup, including site study, remedy selection, remedy design, remedy construction, and post-construction. Activities undertaken early in the cleanup process focus on understanding problems at the site while those taken later in the cleanup process focus on physically addressing those problems identified.

Many NPL sites are large and complicated. These sites are often broken up into smaller areas to make cleanup easier and more manageable. These areas are called "Operable Units" or OUs ([see glossary](#)).

The chart below shows the different types of activities that are underway or complete at each of the cleanup areas (operable units) at the site. Some activities apply to the entire site; EPA assigns these activities to the site-wide operable unit (designated as OU 0).

Cleanup Areas (Operable Units)	Removal *	Study and Remedy Selection	Remedy Design	Remedy Construction	Post-Construction
OU 1		10/17/1984	07/30/1986	09/22/1994	
OU 0					

 Complete
  Underway

[view activities details >>](#) [view OU details >>](#)  
[more in-depth site details](#) (EPA Regional Content)

\* At many sites an action, called a "Removal Action" ([see glossary](#)), must be taken to eliminate immediate and near-term threats to human health and the environment. Removal actions do not occur at all sites.

## Community Involvement

The goals of the Superfund community involvement (CI) program are to: 1) keep communities affected by sites informed throughout the cleanup process, 2) provide opportunities for communities to comment and offer their input about site cleanup plans, and 3) facilitate the resolution of community issues tied to a site. EPA accomplishes these goals by providing communities different tools and resources to support their site involvement. These resources include independent technical assistance so community members can understand the technical aspects of a site, a public forum for community members to present and discuss their needs and concerns related to the Superfund decision making process, and a job training program to encourage employment of local workers. These are just some of the CI program's resources; to learn more, go to <http://www.epa.gov/>.

To find out more about community involvement activities at this Superfund site and how you can become involved in site cleanup/reuse decisions, [view a list of contacts for this site >>](#).

## Land Reuse

EPA places a high priority on land revitalization as an integral part of its Superfund response program mission, so EPA tries to select cleanup options that encourage and support future use of a site. Sites made ready for use are deemed "Site-wide Ready for Anticipated Use" ([see glossary](#)), which means, in part, that all cleanup goals have been achieved for both current and reasonably anticipated future land use.

This site currently does not meet the criteria for Site-wide Ready for Anticipated Use, however parts of the site may be suitable for reuse.

## Post-Construction

Post-Construction ([see glossary](#)) is the stage following completion of the remedy construction. It includes, among other things, activities such as operating the remedy to address the contamination (e.g., ground water pump and treat); implementing, monitoring, and enforcing institutional controls; and a review of the implemented remedies at least every five years to ensure they continue to protect human health and the environment.

At some sites, one of the activities performed during post-construction completion is a five-year review ([see glossary](#)), which occurs at least every five years to ensure that the site remains protective of human health and the environment.

Last five-year review at this site: 09/29/2003  
[view the last five-year review at this site >>](#)

Institutional controls ([see glossary](#)) such as administrative or legal restrictions may also be components of remedies at a site that remain in place post-construction completion.

Sites or portions of sites may be deleted ([see glossary](#)) from the National Priorities List when all cleanup goals have been achieved.

This site has not been deleted from the National Priorities List

[^^ back to top](#) | [view glossary >>](#)

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

[Return to Search Results](#) | [Return to Search Superfund Site Information](#)

[OSWER Home](#) | [Superfund Home](#)

---

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

This page design was last updated on Tuesday, June 23, 2009  
Content is dynamically generated by ColdFusion

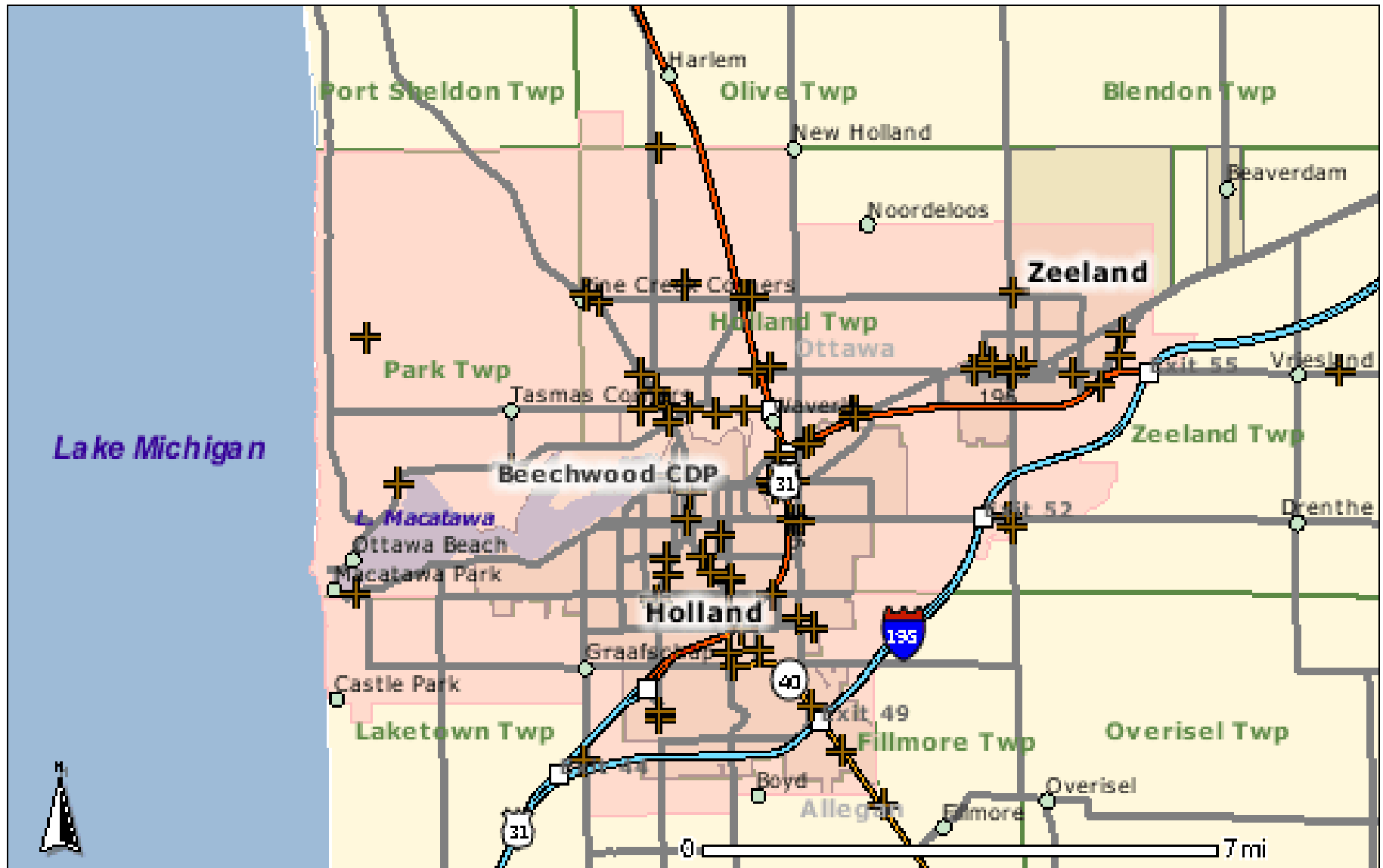
Brownfields - USTfields Database contains information about state-nominated and state-funded cleanup sites as well as sites that have been redeveloped using the Baseline Environmental Assessment process. It is not a full list of contaminated properties in Michigan, and is intended to be utilized as supplemental information for the Part 201 Site Search, Part 211 Underground Storage Tank Site, and Part 213 Leaking Underground Storage Tank Site databases.

								BEA
	70000024	Southwest Ottawa County Landfill	2901 N. 160th Ave, Park Township	Holland	Ottawa	In Progress		
	70000367	Western Machine Tool Works	255 Kollen Park Drive	Holland	Ottawa	Complete		
	70000010	Jacobusse Refuse/Waste Mgmt-Holland Lagoons	2700 N. 168th St.	Holland	Ottawa	PLP		
	70000095	Res Well Lakeshore Dr	Lakeshore Dr	Holland	Ottawa	Closed		
	70000007	Holland Twp Park Dump	Quincy Rd & 124th Avenue	Holland Twp	Ottawa	PLP		

# **Appendix J**

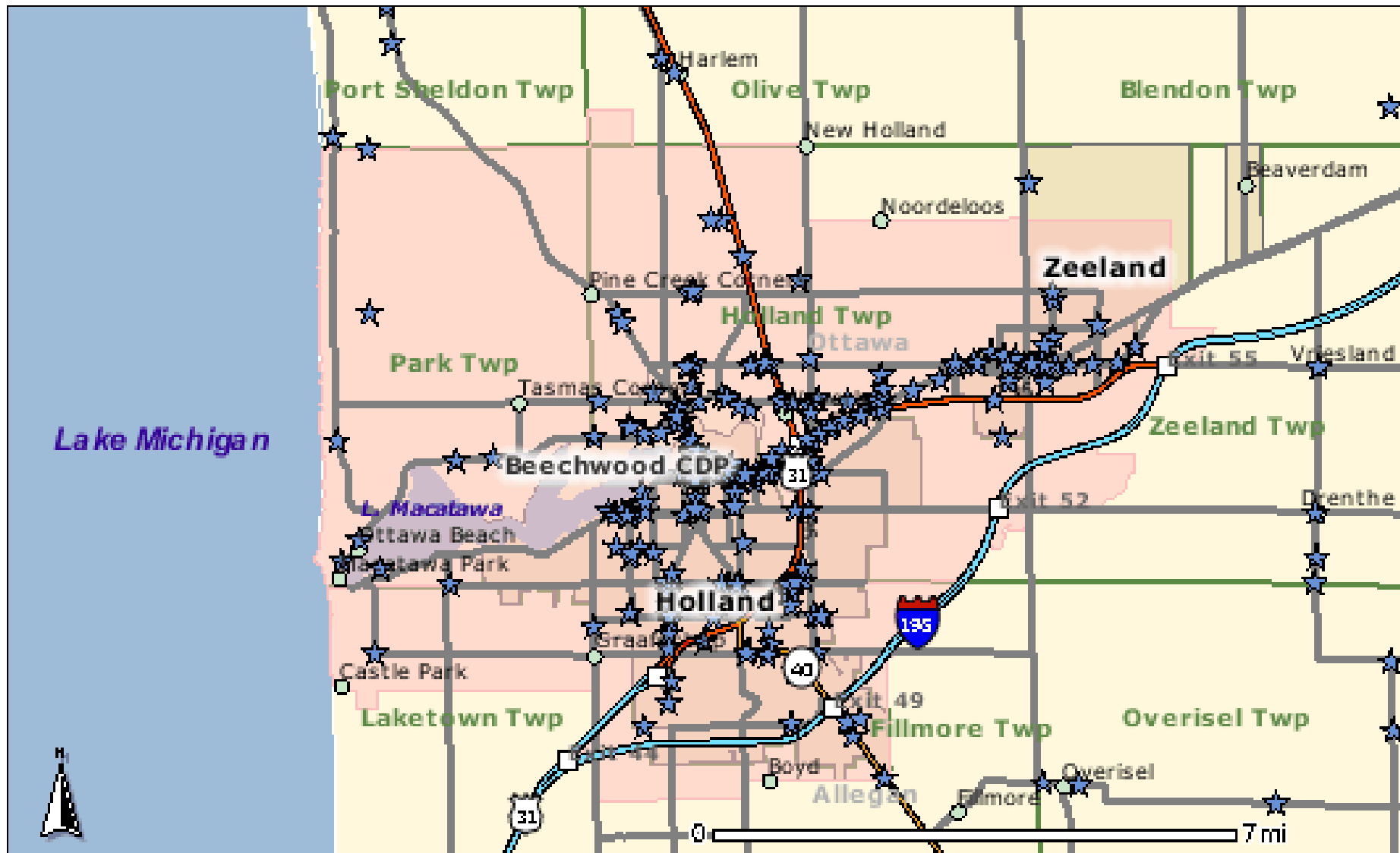
## **Underground Storage Tanks**

## Underground Storage Tank Systems (Part 211)



✚ Active Tanks

Underground Storage Tank Systems (Part 211)



★ Closed Tanks



## Underground Storage Tanks (Status: ACTIVE)

**ACTIVE FACILITIES** are those where there is at least one tank at the facility that is not closed in place or removed and is regulated under Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environment Protection Act, 1994 PA 451, as amended (Act 451). There may be closed tanks and/or active non-regulated tanks (such as heating oil tanks) at the facility.

Facility ID	Facility Name	Facility Address	Owner Name	Owner Address	Active Tanks
<a href="#">00002496</a>	<a href="#">Admiral Petroleum Co #11</a>	61 E 24th St Holland, MI 49423 (616) 837-6218	Admiral Petroleum Co	13 E Randall St Coopersville, MI 49404 (616) 837-6218	2
<a href="#">00041530</a>	<a href="#">Big Curve Discount</a>	3895 Blue Star Hwy Holland, MI 49423 (616) 396-4098	Big Curve Discount LLC	3895 Blue Star Hwy Holland, MI 49423 (616) 836-1223	1
<a href="#">00011513</a>	<a href="#">Boeve Oil Co</a>	695 Lincoln Ave Holland, MI 49423 (616) 392-2333	OWNER ADDRESS UNKNOWN		8
<a href="#">00009675</a>	<a href="#">City of Holland School District</a>	870 S Waverly Rd Holland, MI 49423 (616) 494-2950	City of Holland School District	870 S Waverly Rd Holland, MI 49423 (616) 494-2950	2
<a href="#">00013472</a>	<a href="#">Eighth Street Shell Mini-mart</a>	589 E 8th St Holland, MI 49423 (616) 946-2800	Schmuckal Oil Co	1516 Barlow Traverse City, MI 49686 (231) 946-2800	3
<a href="#">00002551</a>	<a href="#">Elhart Pontiac Amc Gmc, Inc</a>	822 Chicago Dr Holland, MI 49423 (616) 392-8516	Elhart Pontiac Amc Gmc, Inc	822 Chicago Dr Holland, MI 49423 (616) 392-8516	17
<a href="#">00041767</a>	<a href="#">Family Fare Quick Stop</a>		Spartan Stores Fuels LLC	850 76th Street SW Grand Rapids, MI 49518 (616) 878-2000	2
<a href="#">00040091</a>	<a href="#">Fillmore Amoco</a>	762 Cabill Dr Holland, MI 49423 (616) 437-2017	Merle Boes Inc	11372 E Lakewood Blvd Holland, MI 49424 (616) 392-8249	2
<a href="#">00013331</a>	<a href="#">Gas &amp; Things III</a>	543 Chicago Dr Holland, MI 49423 (616) 392-7036	Merle Boes Inc	11372 E Lakewood Blvd Holland, MI 49424 (616) 392-8249	2
<a href="#">00040188</a>	<a href="#">Holland Board Of Public Works</a>	48ST GENERATING STATION HOLLAND, MI 49423 (616) 355-1210	Holland Board of Public Works	625 Hastings Ave Holland, MI 49423 (616) 355-1520	2

<a href="#">00012177</a>	<a href="#">Holland Clark</a>	671 Michigan Ave Holland, MI 49423 231-864-3111	Blarney Castle Oil Co	PO Box 246 Bear Lake, MI 49614 (231) 864-3111	2
<a href="#">00011711</a>	<a href="#">Holland Co</a>	13 W 10th St Holland, MI 49423 (866) 492-6836	AT&T Michigan	308 S Akard Ste 1700 Dallas, TX 75202 (887) 648-2073	1
<a href="#">00015258</a>	<a href="#">Holland Community Hosp.</a>	602 Michigan Ave Holland, MI 49423 (616) 392-5141	Holland Comm Hospital	602 Michigan Ave Holland, MI 49423 (616) 392-5141	1
<a href="#">00014960</a>	<a href="#">Hope College Transportation Dept</a>	176 E 19th St Holland, MI 49423 (343) 394-7838	Hope College	180 E 11th St Holland, MI 49423 (616) 392- 5111	1
<a href="#">00021404</a>	<a href="#">La Barge Mirrow Inc</a>	300 E 40th St Holland, MI 49423 (616) 392-1473	La Barge Mirrow Inc	300 E 40th St Holland, MI 49423 (616) 392- 1473	1
<a href="#">00016239</a>	<a href="#">Louis Padnos Iron &amp; Metal Co</a>	120 S River Ave Holland, MI 49423 (616) 396-8093	Louis Padnos Iron & Metal Co	PO Box 1979 Holland, MI 49422 (616) 396- 6521	3
<a href="#">00034443</a>	<a href="#">Meijer Gas Station #47</a>	746 E 16th St Holland, MI 49423 (616) 396-7221	Meijer Inc	2929 Walker Ave NW Grand Rapids, MI 49544 (616) 791-3390	5
<a href="#">00036293</a>	<a href="#">Mervenne Beverage, Inc</a>	4209 Lincoln Rd Holland, MI 49423 (616) 751-8441	Mervenne Beverage, Inc	4209 Lincoln Rd Holland, MI 49423 (616) 751-8441	1
<a href="#">00001308</a>	<a href="#">Mich Dunes Correction Facility</a>	6605 WEST 138TH AVENUE HOLLAND, MI 49423 (616) 773-3201	MDOC - Muskegon Correctional Facility	2400 S Sheridan Rd Muskegon, MI 49442 (616) 773-3201	2
<a href="#">00011508</a>	<a href="#">Ottawa County</a>	715 Lincoln Ave Holland, MI 49423 (616) 994-4505	Ottawa County	12220 Fillmore St West Olive, MI 49460 (616) 994-4505	2
<a href="#">00004067</a>	<a href="#">Phillips Quick Stop</a>	494 East 32nd Street Holland, MI 49423 (269) 277-1318	Gunwant K Singh	1267 Quail Creek Dr Holland, MI 49423 (269) 621-6076	1
<a href="#">00007420</a>	<a href="#">Quality Car Wash</a>	499 E 8th St Holland, MI 49423 (616) 396-3991	Quality Car Wash	581 Ottawa Ave Ste 300 Holland, MI 49423 (616) 396-3858	5
<a href="#">00035977</a>	<a href="#">Quality Car Wash</a>	809 Washington Ave Holland, MI 49423 (616) 396-3991	Essenburg Car Washes Inc	581 Ottawa Ave Suite 300 Holland, MI 49423 (616) 396-3858	4
<a href="#">00017837</a>	<a href="#">Ryder Transportation Serv #2628</a>	284 E 48th St Holland, MI 49423 (616) 392-7011	Ryder Transportation Service	C/o Ryder Fuel Services 16155 Park Row Suite 140 Houston, TX 77084 713-426-4800	3

<a href="#">00041451</a>	<a href="#">Sean &amp; Dawn LLC</a>	A-4376 60th Street Holland, MI 49423 (616) 291-1064	Sean & Dawn LLC	A-4376 60th Street Holland, MI 49423 (616) 291-1064	1
<a href="#">00041451</a>	<a href="#">Sean &amp; Dawn LLC</a>	A-4376 60th Street Holland, MI 49423 (616) 291-1064	Sean & Dawn LLC	A-4376 60th Street Holland, MI 49423 (616) 291-1064	1
<a href="#">00008582</a>	<a href="#">Sligh Furniture Co</a>	1201 Industrial Ave Holland, MI 49423 (616) 392-7101	Sligh Furniture Co	1201 Industrial Ave Holland, MI 49423 (616) 392-7101	1
<a href="#">00005723</a>	<a href="#">South River Shell Mini Mart</a>	377 S River Ave Holland, MI 49423 (231) 946-2800	Schmuckal Oil Co	1516 Barlow Traverse City, MI 49686 (231) 946-2800	4
<a href="#">00017439</a>	<a href="#">Speedway #2308</a>	635 East 16th Street Holland, MI 49423 (616) 392-5098	Speedway SuperAmerica LLC	PO Box 1500 Springfield, OH 45501 (937) 864-3000	3
<a href="#">00011076</a>	<a href="#">Speedway #3560</a>	800 S Washington Holland, MI 49423 (616) 386-3599	Speedway SuperAmerica LLC	PO Box 1500 Springfield, OH 45501 (937) 864-3000	4
<a href="#">00021883</a>	<a href="#">Speedway #3580</a>	746 Chicago Dr Holland, MI 49423 (937) 863-7071	Speedway SuperAmerica LLC	PO Box 1500 Springfield, OH 45501 (937) 864-3000	6
<a href="#">00019273</a>	<a href="#">The Voss Boys</a>	881 Lincoln Ave Holland, MI 49423 (616) 392-3898	OWNER ADDRESS UNKNOWN		2
<a href="#">00006278</a>	<a href="#">Tulip City Air Service Inc</a>	1581 S Washington Ave Holland, MI 49423 (616) 392-7931	Tulip City Air Serv Inc	1581 S Washington Ave Holland, MI 49423 (616) 392-7831	4
<a href="#">00009330</a>	<a href="#">Tulip City Truck Stop</a>	4360 Lincoln Rd Holland, MI 49423 (616) 534-2181	Exit 76 Corporation	PO Box 9464 Wyoming, MI 49509 (616) 534-2181	5
<a href="#">00015916</a>	<a href="#">USF Holland - HO</a>	750 East 40th Street Holland, MI 49423 (913) 344-5622	YRC Environmental Services	10990 Roe Ave Overland Park, KS 66211 (913) 344-3000	2
<a href="#">00009395</a>	<a href="#">Wesco #4</a>	14 W Lakewood Blvd Holland, MI 49423 (231) 719-4300	Wesco Inc	1460 Whitehall Rd Muskegon, MI 49445 (231) 719-4300	1
<a href="#">00039173</a>	<a href="#">Windmill Mobil Mart</a>	1122 Lincoln Ave Holland, MI 49423 (616) 534-2181	Exit 76 Corporation	PO Box 9464 Wyoming, MI 49509 (616) 534-2181	2
<a href="#">00004213</a>	<a href="#">Wingspan LLC</a>	1585 S Washington 1583 S Washington (formerly) Holland, MI 49423 (616) 394-8350	Wingspan LLC	1585 S Washington Ave Holland, MI 49423 (616) 394-8350	2

# Underground Storage Tanks (Status: CLOSED)

**CLOSED FACILITIES** are those where all tanks at the facility that are regulated under Part 211 of Act 451 are closed. There may be non-regulated active tanks at the facility, such as heating oil tanks or tanks that are smaller than the regulatory cutoff.

Facility ID	Facility Name	Facility Address	Owner Name	Owner Address	Active Tanks
<a href="#">00011901</a>	<a href="#">#3007 United Oil</a>	805 S WASHINGTON HOLLAND, MI 49423 (317) 875-8500	RI Marketing Inc	Po Box 68401 Indianapolis, IN 46268 (317) 875-8500	0
<a href="#">00017164</a>	<a href="#">Afco Holland, Michigan</a>	615 E 40th St Holland, MI 49423 (616) 392-1826	Afco Industries, Inc	303 S Temple Dr Diboll, TX 75941 (409) 829-5511	0
<a href="#">00000927</a>	<a href="#">All-phase Electric Supply Co</a>	148 S Waverly Rd Holland, MI 49423 (616) 428-2700	All-Phase Electric Supply Co	875 Riverview Dr Benton Harbor, MI 49022 (616) 926-6194	0
<a href="#">00014842</a>	<a href="#">Alvin D. Bos Vending Co</a>	1 W 5th St Holland, MI 49423 (616) 392-5991	Alvin D. Bos Vending Co	1 W 5th St Holland, MI 49423 (616) 392-5991	0
<a href="#">00016422</a>	<a href="#">American Aerosols</a>	636 E 40th St Holland, MI 49423 (616) 957-2600	Guardsman Chemicals Inc	PO Box 1521 Grand Rapids, MI 49501 (616) 957-2600	0
<a href="#">00021346</a>	<a href="#">Amoco Oil Co</a>	17TH & OTTAWA HOLLAND, MI 49423 (313) 855-8388	Amoco Petroleum Products	17187 N Laurel Park Ste 365 Livonia, MI 48152 (734) 953-7013	0
<a href="#">00021348</a>	<a href="#">Amoco Oil Co</a>	PAW PAW & WOODBRIDGE HOLLAND, MI 49423 (313) 855-8388	Amoco Petroleum Products	17187 N Laurel Park Ste 365 Livonia, MI 48152 (734) 953-7013	0
<a href="#">00011511</a>	<a href="#">Arvco Discount Tire</a>	162 E 8th St Holland, MI 49423 (616) 392-2333	Boeve Oil	Po Box 1186 Holland, MI 49422 (616) 392-2333	0
<a href="#">00007674</a>	<a href="#">Bci Partners, Inc</a>	167 N WAVERLY RD HOLLAND, MI 49423 (616) 396-1931	BCI Partners, Inc	167 N WAVERLY RD HOLLAND, MI 49423 (616) 396-1931	0
<a href="#">50000086</a>	<a href="#">Beatrice Cheese</a>	147 E 6th St Holland, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00003823</a>	<a href="#">Becker Iron &amp; Metal</a>	69 Coolidge Ave Holland, MI 49423 (616) 396-6521	Louis Padnos Iron & Metal Co	PO Box 1979 Holland, MI 49422 (616) 396-6521	0
<a href="#">00033096</a>	<a href="#">Big Dutchman Cyclone, Inc</a>	694 E 40th St Holland, MI 49423 (616) 392-5981	Big Dutchman Cyclone, Inc	694 E 40th St Holland, MI 49423 (616) 392-5981	0
<a href="#">00017857</a>	<a href="#">Bills Total</a>	316 S RIVER AVE HOLLAND, MI 49423 (616) 392-2636	William D. Voss	465 E 8th St Holland, MI 49423 (616) 392-2636	0
<a href="#">00005885</a>	<a href="#">Boers Transfer &amp; Storage Inc</a>	451 W 24th St Holland, MI 49423 (616) 399-2690	OWNER ADDRESS UNKNOWN		0
<a href="#">00011512</a>	<a href="#">Boeve Oil Co</a>	775 S WASHINGTON AVE HOLLAND, MI 49423 (616) 392-2333	Boeve Oil	Po Box 1186 Holland, MI 49422 (616) 392-2333	0
<a href="#">50000087</a>	<a href="#">Boeve Oil Co</a>	435 W 17th St Holland, MI 49423 ( ) -	Nrt Owner		0

<a href="#">00014010</a>	<a href="#">Bohn Aluminum &amp; Brass Division</a>	365 W 24th St Holland, MI 49423 (616) 396-6591	Bohn Aluminum & Brass Div	365 W 24th St Holland, MI 49423 (616) 396-6591	0
<a href="#">00003364</a>	<a href="#">Boron Station</a>	105 E LAKEWOOD & BEELINE RD HOLLAND, MI 49423 (616) 396-4897	Superior Oil Co of Michigan	1753 Madison St Muskegon, MI 49442 (616) 777-2781	0
<a href="#">00011965</a>	<a href="#">Brewers City Dock Inc</a>	24 Pine Ave Holland, MI 49423 (616) 396-6563	Brewers City Dock	24 Pine Ave Holland, MI 49423 (616) 396-6563	0
<a href="#">00011980</a>	<a href="#">Brewers City Dock Inc</a>	77 River Ave Holland, MI 49423 (616) 396-6563	Brewers City Dock	24 Pine Ave Holland, MI 49423 (616) 396-6563	0
<a href="#">00020356</a>	<a href="#">Brink Farms Inc</a>	A 5717 138TH AVENUE HOLLAND, MI 49423 (616) 751-5965	Brink Farms Inc	A 5717 138TH AVE HOLLAND, MI 49423 (616) 751-5965	0
<a href="#">00008452</a>	<a href="#">Brooks Beverage Management Inc</a>	777 Brooks Ave Holland, MI 49423 (616) 396-1281	Brooks Beverage Mgt Inc	777 Brooks Ave Holland, MI 49423 (616) 396-1281	0
<a href="#">00011079</a>	<a href="#">Carl Owen</a>	9 RIVER HILLS DR HOLLAND, MI 49423 (616) 399-0157	Carl Owen	2469 142nd Ave Holland, MI 49424 (616) 399-0157	0
<a href="#">00013928</a>	<a href="#">Cash-way Lumber Co</a>	3500 N US-10 HOLLAND, MI 49423 (616) 399-2588	Cash-Way Lumber Co	3500 N US-10 HOLLAND, MI 49423 (616) 399-2588	0
<a href="#">00003300</a>	<a href="#">Central Transport Inc</a>	170 15TH ST HOLLAND, MI 49423 (810) 939-7006	Central Transport Inc	ATTN DIG BAKS 12225 STEPHENS RD WARREN, MI 48089 (810) 939-7000	0
<a href="#">00038325</a>	<a href="#">Charles &amp; Elsie Conrad</a>	917 Washington Ave Holland, MI 49423 (616) 335-5311	Charles & Elsie Conrad	1899 S Shore Dr Holland, MI 49423 (616) 335-5311	0
<a href="#">00009651</a>	<a href="#">Cheker Unit 7180</a>	ROUTE 2 M-21 EAST 112 & LAKEWOOD HOLLAND, MI 49423 (321) 335-0600	Emro Marketing Co	Po Box 1500 Springfield, OH 45501 (937) 864-3000	0
<a href="#">00000232</a>	<a href="#">City Of Holland Police Dept.</a>	65 W 8th St Holland, MI 49423 (616) 394-1357	City Of Holland	270 S River Ave Holland, MI 49423 (616) 394-1357	0
<a href="#">00012335</a>	<a href="#">Clark Service Station #481</a>	197 EAST 8TH ST HOLLAND, MI 49423	Clark Refining & Marketing Inc	8000 Beech Daly Rd Taylor, MI 48180 (313) 291-7427	0
<a href="#">00037302</a>	<a href="#">Community Action House</a>	345 W 14th St Holland, MI 49423 (616) 392-2368	Comm Action House	345 W 14th St Holland, MI 49423 (616) 392-2368	0
<a href="#">00016168</a>	<a href="#">Diekema Trucking</a>	11305 Chicago Dr Holland, MI 49423 486-634-7801	Ronald W Loren	28955 Wm P Rosso Hwy New Baltimore, MI 48047 586-947-4764	0
<a href="#">00034441</a>	<a href="#">Donnelly Corporation-ottawa Fac.</a>	611 Ottawa Ave Holland, MI 49423 (616) 394-2480	Donnelly Corp	414 E 40th St Holland, MI 49423 (616) 394-2200	0
<a href="#">00018703</a>	<a href="#">Dutch Village</a>	US 31 AT JAMES ST PO BOX 703 HOLLAND, MI 49423 (616) 396-1475	Dutch Village	US 31 AT JAMES ST PO BOX 703 HOLLAND, MI 49423 (616) 396-1475	0
<a href="#">00009186</a>	<a href="#">Dyke-highland Construction</a>	160 HIGHLAND AVE HOLLAND, MI 49423 (616) 396-3792	Dyke Highland Const	160 HIGHLAND AVE HOLLAND, MI 49423 (616) 396-3792	0
<a href="#">00011976</a>	<a href="#">Easter Marine Service Inc</a>	2081 LAKEWAY DR HOLLAND, MI 49423	OWNER ADDRESS UNKNOWN		0

<a href="#">00035583</a>	<a href="#">Elhart Dodge Nissau Inc</a>	870 Chicago Dr Holland, MI 49423 (616) 396-0441	Elhart Dodge Nissan Inc	870 Chicago Dr Holland, MI 49423 (616) 396-0441	0
<a href="#">00014962</a>	<a href="#">Elzinga &amp; Volkers Inc</a>	86 E 6th St Holland, MI 49423 (616) 392-2383	Elzinga & Volkers Inc	86 E 6th St Holland, MI 49423 (616) 392-2383	0
<a href="#">00005068</a>	<a href="#">Ex-cell-o Micromatic</a>	345 E 48th St Holland, MI 49423 (616) 392-1461	Ex-Cell-O Micromatic	345 E 48th St Holland, MI 49423 (616) 392-1461	0
<a href="#">00035427</a>	<a href="#">Excellent Leasing Co Inc</a>	4392 Lincoln Rd Holland, MI 49423 (616) 392-6330	Excellent Leasing Co Inc	4392 Lincoln Rd Holland, MI 49423 (616) 392-6330	0
<a href="#">00037825</a>	<a href="#">Fillmore Properties Ltd Ptn</a>	A-5263 144th Ave Holland, MI 49423 (616) 392-7036	Fillmore Prop Ltd Ptnp	PO Box 2365 Holland, MI 49422 (616) 392-7036	0
<a href="#">00016168</a>	<a href="#">Diekema Trucking</a>	11305 Chicago Dr Holland, MI 49423 486-634-7801	Ronald W Loren	28955 Wm P Rosso Hwy New Baltimore, MI 48047 586-947-4764	0
<a href="#">00034441</a>	<a href="#">Donnelly Corporation-ottawa Fac.</a>	611 Ottawa Ave Holland, MI 49423 (616) 394-2480	Donnelly Corp	414 E 40th St Holland, MI 49423 (616) 394-2200	0
<a href="#">00018703</a>	<a href="#">Dutch Village</a>	US 31 AT JAMES ST PO BOX 703 HOLLAND, MI 49423 (616) 396-1475	Dutch Village	US 31 AT JAMES ST PO BOX 703 HOLLAND, MI 49423 (616) 396-1475	0
<a href="#">50000124</a>	<a href="#">First Michigan Bank</a>	1079 Washington Ave Holland, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00036189</a>	<a href="#">First Michigan Bank Corp</a>	115 Clover St Holland, MI 49423 (616) 396-9368	First Michigan Bank Corp	1 Financial Plz Holland, MI 49423 (616) 396-9368	0
<a href="#">00014277</a>	<a href="#">Fogg Filler Co</a>	37 VAN DYKE ST HOLLAND, MI 49423 (616) 392-1808	Fogg Filler Co	37 VAN DYKE ST HOLLAND, MI 49423 (616) 392-1808	0
<a href="#">00002753</a>	<a href="#">Former Cook Auto</a>	1049 Washington Ave Holland, MI 49423 (616) 395-3744	Lumir Corp	36 W 8th St Ste 250 Holland, MI 49423 (616) 392-2580	0
<a href="#">00037073</a>	<a href="#">Former Gas Station</a>	723 MICHIGAN HOLLAND, MI 49423 (616) 392-2580	Lumir Corp	36 W 8th St Ste 250 Holland, MI 49423 (616) 392-2580	0
<a href="#">00016580</a>	<a href="#">Former Holland Motor Express</a>	111 Central Ave Holland, MI 49423 (616) 392-2389	Tnt Holland Motor Express	750 E 40th St Holland, MI 49423 (616) 395-5160	0
<a href="#">00035481</a>	<a href="#">Fris Office Outfitters</a>	109 S River Ave Holland, MI 49423 (616) 396-2341	Fris Office Outfitters	109 S River Ave Holland, MI 49423 (616) 396-2341	0
<a href="#">50000134</a>	<a href="#">General Electric</a>	570 E 16TH ST HOLLAND, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00009932</a>	<a href="#">Gra-bell Truck Line Inc</a>	A-5253 144th Avenue Holland, MI 49423 (616) 396-1453	GRA-Bell Truck Line Inc	931 Interchange Dr Holland, MI 49422 (616) 396-1453	0
<a href="#">00019759</a>	<a href="#">Grand Rapids-holland Main Po</a>	190 E 8th St Holland, MI 49423 ( ) -	US Postal Serv	678 Front Ave NW Ste 310 Grand Rapids, MI 49599 (616) 776-6133	0
<a href="#">00036398</a>	<a href="#">Great Lakes Interiors</a>	771 Lincoln Ave Holland, MI 49423 (616) 396-5296	Great Lakes Interiors	753 LINCOLN AVE HOLLAND, MI 49423 (616) 396-5296	0
<a href="#">00004476</a>	<a href="#">Great Used Car Co</a>	1127 Central Ave Holland, MI 49423 (616) 396-5268	Crown Motors Ltd	196 Regent Blvd Holland, MI 49423 (616) 396-5268	0

<a href="#">50000257</a>	<a href="#">Hamilton Land Co</a>	4300 Lincoln Rd Holland, MI 49423 ( ) -	Nrt Owner		0
<a href="#">50000258</a>	<a href="#">Hansen Machine Co</a>	165 DOUGLAS HOLLAND, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00018434</a>	<a href="#">Haworth Inc</a>	1 Haworth Ctr Holland, MI 49423 (616) 393-3585	Haworth Inc	1 Haworth Ctr Holland, MI 49423 (616) 393-3000	0
<a href="#">50002096</a>	<a href="#">Healthiatry Center</a>	975 S WASHINGTON HOLLAND, MI 49423 ( ) -	OWNER ADDRESS UNKNOWN		0
<a href="#">00008034</a>	<a href="#">Heidema Brothers, Inc</a>	166 E LAKEWOOD BLVD. HOLLAND, MI 49423 ( ) -	Heidema Brothers, Inc	5496 N 144TH AVE HOLLAND, MI 49424 (616) 396-6551	0
<a href="#">00002185</a>	<a href="#">Heights Standard Service</a>	755 E 8th St Holland, MI 49423 (616) 396-5767	Heights Standard Serv	755 E 8th St Holland, MI 49423 (616) 396-5767	0
<a href="#">00004781</a>	<a href="#">Heinz U.s.a.</a>	431 W 16th St Holland, MI 49423 (616) 396-6557	Heinz U.S.A. Div. H.J. Heinz Co	1062 Progress St Pittsburgh, PA 15212 (412) 237-5757	0
<a href="#">00021703</a>	<a href="#">Holland Christian School</a>	956 Ottawa Ave Holland, MI 49423 (213) 486-3511	Atlantic Richfield Co	1055 West 7th Street Po Box 2570 Pac #1259 Los Angeles, CA 90051 (213) 486-1289	0
<a href="#">00007754</a>	<a href="#">Holland Christian Schools</a>	950 Ottawa Ave Holland, MI 49423 (616) 396-1479	Holland Christian Schools	950 Ottawa Ave Holland, MI 49423 (616) 396-1479	0
<a href="#">00038330</a>	<a href="#">Holland City Mission</a>	166 S River Ave Holland, MI 49423 (616) 396-2200	Holland City Mission	166 S River Ave Holland, MI 49423 (616) 396-2200	0
<a href="#">00011636</a>	<a href="#">Holland Garage &amp; Storeroom</a>	245 E 24th Street Holland, MI 49423 (877) 648-2073	AT&T Michigan	308 S Akard Ste 1700 Dallas, TX 75202 (887) 648-2073	0
<a href="#">00035803</a>	<a href="#">Holland Hitch Co</a>	1122 Industrial Ave Holland, MI 49423 (616) 396-6501	Holland Hitch Co	467 OTTAWA AVE HOLLAND, MI 49422 (616) 396-6501	0
<a href="#">50000091</a>	<a href="#">Holland Public Schools</a>	600 Van Raalte Ave Holland, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00014419</a>	<a href="#">Holland Terminal</a>	630 Ottawa Ave Holland, MI 49423 (616) 392-7146	Holland Terminal Co	630 Ottawa Ave Holland, MI 49423 (616) 392-7146	0
<a href="#">00006493</a>	<a href="#">Holland Water Treatment</a>	46 LAKESHORE DR HOLLAND, MI 49423 (616) 399-9410	City of Holland Board of DPW	268 S River Ave Holland, MI 49423 (616) 394-1320	0
<a href="#">00034014</a>	<a href="#">Interior Images</a>	630 E 32nd St Holland, MI 49423 (616) 396-6395	Interior Images	630 E 32nd St Holland, MI 49423 (616) 396-6395	0
<a href="#">00036383</a>	<a href="#">James Genzink</a>	1225 Graafschap Rd Holland, MI 49423	James Genzink	A-6037 146th Ave Holland, MI 49423 (616) 396-4145	0
<a href="#">00005209</a>	<a href="#">Kalkman Redi-mix</a>	12450 JAMES & US 31 HOLLAND, MI 49423 (616) 399-3059	Grand Rapids Gravel Co	2700 28th St SW Wyoming, MI 49509 (616) 538-9000	0
<a href="#">00000721</a>	<a href="#">Kmart #9077</a>	571 E 8th St Holland, MI 49423 (708) 884-3876	Kmart Corp	3100 W Big Beaver Rd Troy, MI 48084 (248) 614-1310	0
<a href="#">00035506</a>	Koning Machine	180 E 40th St Holland, MI 49423 (616) 396-8606	Koning Machine & Tool Co	180 E 40th St Holland, MI 49423 (616) 396-8606	0
<a href="#">00014697</a>	<a href="#">Lake Macatawa-launch Site</a>	286 HOWARD AVENUE HOLLAND, MI 49423 (616) 396-1296	Murray Industries, Inc	PO Box 48868 Sarasota, FL 34230 (813) 954-8814	0
<a href="#">00012699</a>	<a href="#">Lamar</a>	A-4608 66TH ST	Lamar Const Co	A-4608 66TH ST HOLLAND,	0

	<a href="#">Construction Co</a>	HOLLAND, MI 49423 (616) 335-8245		MI 49423 (616) 335-8245	
<a href="#">00010767</a>	<a href="#">Lamb, Inc</a>	107 E 8th St Holland, MI 49423 (616) 392-8053	Lamb, Inc	107 E 8th St Holland, MI 49423 (616) 392-8571	0
<a href="#">00020985</a>	<a href="#">Lithbar Matik, Inc</a>	588 E 40th St Holland, MI 49423 (616) 396-5215	Lithbar Matik, Inc	588 E 40th St Holland, MI 49423 (616) 396-5215	0
<a href="#">00007774</a>	<a href="#">Low Service Pumping Station</a>	4707 LAKESHORE DR HOLLAND, MI 49423 (616) 399-6511	City of Wyoming	2350 Ivanrest Ave SW Wyoming, MI 49418 (616) 261-3550	0
<a href="#">00037891</a>	<a href="#">Lumir-former Cook Auto Body</a>	1300 S WASHINGTON HOLLAND, MI 49423 (616) 395-3744	Lumir Corp	36 W 8th St Ste 250 Holland, MI 49423 (616) 392-2580	0
<a href="#">00013938</a>	<a href="#">Maple Leaf Farms Inc</a>	4410 144TH AVENUE HOLLAND, MI 49423 (219) 658-4121	Maple Leaf Farms Inc	PO Box 308 Milford, IN 46542 (219) 856-4121	0
<a href="#">00008774</a>	<a href="#">Maplewood Auto Inc</a>	777 Columbia Ave Holland, MI 49423 (616) 392-4936	Maplewood Auto Inc	777 Columbia Ave Holland, MI 49423 (616) 392-4936	0
<a href="#">00015897</a>	<a href="#">Maplewood Dry Cleaners</a>	148 E 32nd St Holland, MI 49423 (616) 392-2406	Maplewood Dry Cleaners	148 E 32nd St Holland, MI 49423 (616) 392-2406	0
<a href="#">00013622</a>	<a href="#">Marathon Unit #2704</a>	6 WEST 16TH & CENTRAL HOLLAND, MI 49423 (419) 422-2121	OWNER ADDRESS UNKNOWN		0
<a href="#">00004671</a>	<a href="#">Marina Bay</a>	561 Crescent Dr Holland, MI 49423 (616) 538-8130	OWNER ADDRESS UNKNOWN		0
<a href="#">00037719</a>	<a href="#">Mdot Right Of Way-easement</a>	US 31 BR NEAR 8TH ST HOLLAND, MI 49423 (616) 722-7625	MDOT - Department of Transportation	1774 Madison St Muskegon, MI 49442 (616) 722-7625	0
<a href="#">00016339</a>	<a href="#">Michigan Power Co</a>	200 EAST 12TH ST HOLLAND, MI 49423 (616) 392-8588	Michigan Power Compnay	100 S Main St Three Rivers, MI 49093 (616) 279-5261	0
<a href="#">00010860</a>	<a href="#">Mikes Mobil Inc</a>	772 Lincoln Ave Holland, MI 49423 (616) 396-5635	Mikes Mobil Inc	772 Lincoln Ave Holland, MI 49423 (616) 396-5635	0
<a href="#">00007919</a>	<a href="#">Modern Beverage Co</a>	400 Center St Holland, MI 49423 (616) 392-3533	Modern Beverage Co	400 Center St Holland, MI 49423 (616) 392-3533	0
<a href="#">00009349</a>	<a href="#">Mooi Roofing &amp; Supply Co Inc</a>	29 E 6th St Holland, MI 49423 (616) 392-2426	Mooi Roofing & Supply Co Inc	29 E 6th St Holland, MI 49423 (616) 392-3826	0
<a href="#">50000088</a>	<a href="#">Mta Travel</a>	21 W 7th St Holland, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00011448</a>	<a href="#">Nabisco Brands/life Savers Inc</a>	635 E 48th St Holland, MI 49423 (616) 396-1411	Nabisco Brands Inc	500 LANIDEZ PLAZA PARSIPPANY, NJ 07054 (201) 428-5584	0
<a href="#">00006797</a>	<a href="#">Nordyne, Inc</a>	900 BROOKS AVENUE HOLLAND, MI 49423 (314) 878-6200	Nordyne, Inc	1801 PARK 270 DR ST LOUIS, MO 63146 (314) 878-6200	0
<a href="#">00005298</a>	<a href="#">Not Recorded</a>	361 E 64TH ST HOLLAND, MI 49423 (616) 392-3161	Donald Bench	397 3rd Ave Holland, MI 49424 (616) 392-3161	0
<a href="#">50005629</a>	<a href="#">Optera Inc</a>		Magna Electronics	414 East 40th Street Holland, MI 49423 (616) 786-5000	0
<a href="#">00011053</a>	<a href="#">Orbit Corp</a>	520 Chicago Dr Holland,	Orbit Corp	1320 N Lasalle Chicago, IL	0



	<a href="#">Unit #or-102</a>	MI 49423 (312) 337-1320		60610 (312) 337-1320	
<a href="#">00006925</a>	<a href="#">Overisel Feed Supply Co Inc</a>	A-4670 142nd Ave Holland, MI 49423 (616) 751-6511	Overisel Feed Supply Co Inc	A-4670 142nd Ave Holland, MI 49423 (616) 751-6511	0
<a href="#">00036536</a>	<a href="#">Overisel Lumber Co</a>	573 E 32nd St Holland, MI 49423 (616) 396-2319	Overisel Lumber Co	573 E 32nd St Holland, MI 49423 (616) 396-2319	0
<a href="#">00039425</a>	<a href="#">Overisel Twp Fire Dept Station 2</a>	4779 142ND AVENUE HOLLAND, MI 49423 (616) 751-7095	Overisel Twp	4253 47th St Holland, MI 49423 (616) 751-7095	0
	<a href="#">Parts Plus Auto Parts</a>	292 EAST EIGHT ST HOLLAND, MI 49423 (616) 248-9000	Jobbers Warehouse Serv Inc	3470 ROGER B CHAFFEE BLVD SE GRAND RAPIDS, MI 49548 (616) 248-9000	0
<a href="#">00011509</a>	<a href="#">Pine &amp; 17th Self Serve</a>	105 W 17th St Holland, MI 49423 (616) 392-2333	Boeve Oil	Po Box 1186 Holland, MI 49422 (616) 392-2333	0
<a href="#">00041159</a>	<a href="#">Plaza Center Office Facility</a>	85 E Eighth Street Holland, MI 49423 616- 394-4500	Eighth Street Partners, Llc	44 E 8th St Ste 510 Holland, MI 49423 616-394-4500	0
<a href="#">00013684</a>	<a href="#">Polynesian Inc</a>	905 Brooks Ave Holland, MI 49423 ( ) -	Polynesian Inc	905 Brooks Ave Holland, MI 49423 (616) 392-1680	0
<a href="#">00018948</a>	<a href="#">Prince Lakewood Manufacturing</a>	35 MADISON AVE HOLLAND, MI 49423 (616) 392-5151	Prince Corp	1 Prince Ctr Holland, MI 49423 (616) 392-5151	0
<a href="#">00018947</a>	<a href="#">Prince Machinery Manufacturing</a>	670 Windcrest Dr Holland, MI 49423 (616) 394-8101	Prince Corp	1 Prince Ctr Holland, MI 49423 (616) 392-5151	0
<a href="#">00035439</a>	<a href="#">Prince Southview Campus</a>	1600 S Washington Ave Holland, MI 49423 (616) 394-8102	Prince Corp	1 Prince Ctr Holland, MI 49423 (616) 392-5151	0
<a href="#">00007421</a>	<a href="#">Quality Car Wash</a>	149 S River Ave Holland, MI 49423 (616) 396-3858	Quality Car Wash	581 Ottawa Ave Ste 300 Holland, MI 49423 (616) 396- 3858	0
<a href="#">00007422</a>	<a href="#">Quality Car Wash</a>	523 West 17th Street S Shore Holland, MI 49423 (616) 396-3858	Quality Car Wash	581 Ottawa Ave Ste 300 Holland, MI 49423 (616) 396- 3858	0
<a href="#">00017241</a>	<a href="#">R.e. Barber Ford, Inc</a>	640 E 8th St Holland, MI 49423 (616) 396-2361	R.E. Barber Ford, Inc	640 E 8th St Holland, MI 49423 (616) 396-2361	0
<a href="#">00015031</a>	<a href="#">Raymond M. Knoll</a>	752 Michigan Ave Holland, MI 49423	Raymond M. Knoll	752 Michigan Ave Holland, MI 49423 (616) 392-3637	0
<a href="#">00006396</a>	<a href="#">Repolite Paints Inc</a>	473 W 17th St Holland, MI 49423 (616) 396-1275	Repolite Paints Inc	473 W 17th St Holland, MI 49423 (616) 396-1275	0
<a href="#">50001720</a>	<a href="#">Right Of Way</a>	238 NORTH 120TH AVENUE HOLLAND, MI 49423 (616) 842-5400	Nrt Owner		0
<a href="#">50005514</a>	<a href="#">River Avenue</a>	221 S River Ave Holland, MI 49423 (616) 928-2448	City of Holland	333 Wyngarden Way Holland, MI 49423 (616) 928-2430	0
<a href="#">50000256</a>	<a href="#">Riverview Development</a>	170 Columbia Ave Holland, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00001965</a>	<a href="#">Robert Denooyer Chevrolet Inc</a>	600 E 8th St Holland, MI 49423 (231) 275-3479	Robert Denooyer Chev Inc	600 E 8th St Holland, MI 49423 (616) 396-2333	0
<a href="#">00001961</a>	<a href="#">Rollins</a>	1253 Industrial Ave	Rollins Truck Leasing	ONE ROLLINS PLAZA BOX	0

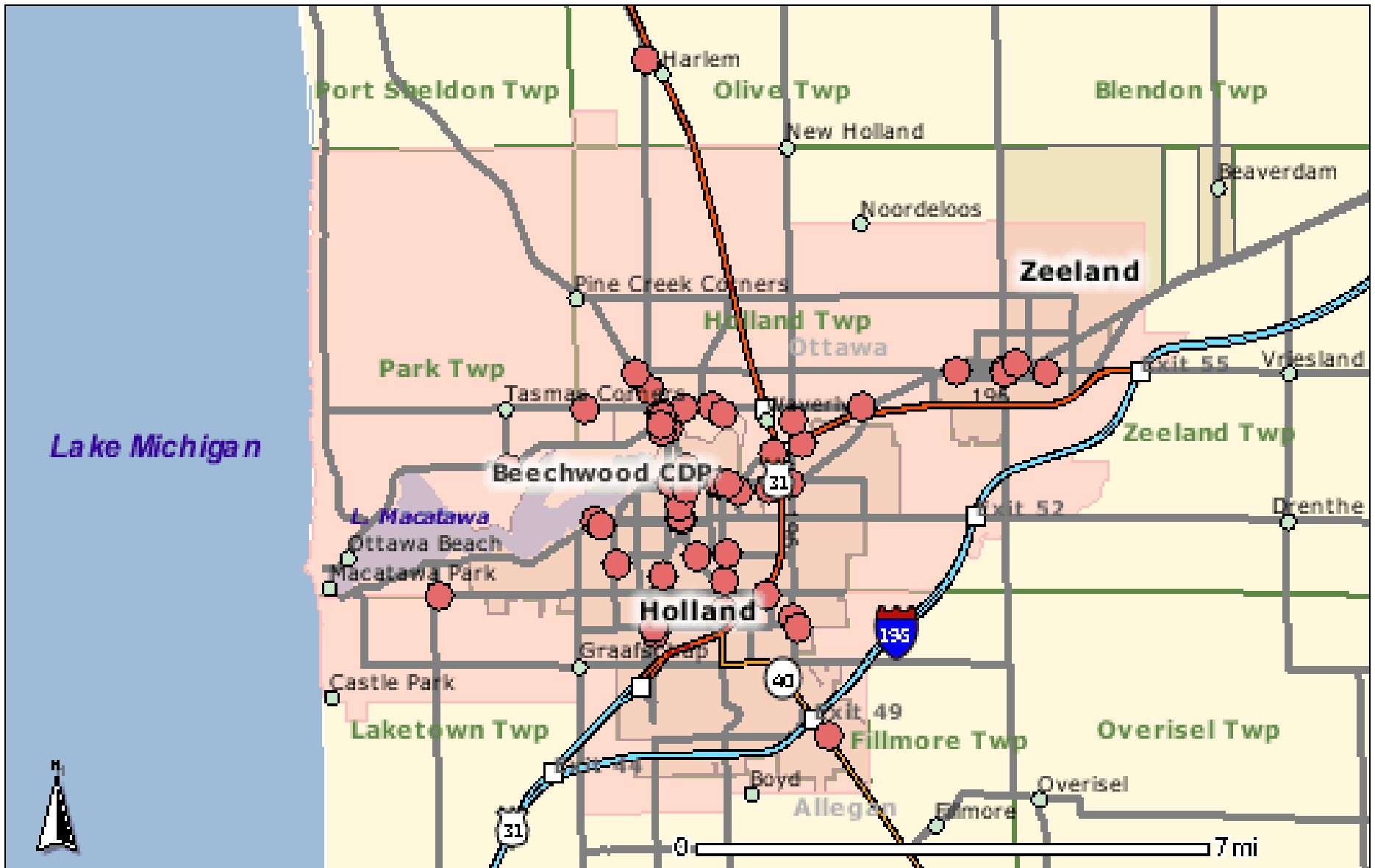
	<a href="#">Leasing Corp Br#424-a</a>	Holland, MI 49423 (616) 396-9644	Corp	1791 WILMINGTON, DE 19899 (302) 426-2789	
<a href="#">00038295</a>	<a href="#">Roscoes Corner Cafe</a>	2 W NINTH ST HOLLAND, MI 49423 (616) 456-7758	Dr Christian Helmus	21 MICHIGAN DR NE GRAND RAPIDS, MI 49503 (616) 456-7758	0
<a href="#">00006301</a>	<a href="#">Rv Investors</a>	670 E 16th St Holland, MI 49423 (616) 396-1461	Rv Investors	670 E 16th St Holland, MI 49423 (616) 396-1461	0
<a href="#">50000092</a>	<a href="#">Rwalet Hurst Dairy</a>	778 LINCOLN HOLLAND, MI 49423 ( ) -	Nrt Owner		0
<a href="#">50000085</a>	<a href="#">Sheeler Globe Assoc</a>	50 W 3RD ST HOLLAND, MI 49423 ( ) -	Nrt Owner		0
<a href="#">00019435</a>	<a href="#">Shoemaker, Inc</a>	481 E 8th St Holland, MI 49423 (616) 392-7135	Shoemaker, Inc	481 E 8th St Holland, MI 49423 (616) 392-7135	0
<a href="#">00016937</a>	<a href="#">Short Cut Garage</a>	238 N 120TH AVE HOLLAND, MI 49423 (616) 392-2269	Garry Lamer	238 NORTH 120TH AVE HOLLAND, MI 49423 (616) 392-2269	0
<a href="#">00013471</a>	<a href="#">South River Shell</a>	363 S RIVER HOLLAND, MI 49423 (616) 946-0751	Schmuckal Oil Co	1516 Barlow Traverse City, MI 49686 (231) 946-2800	0
<a href="#">00000952</a>	<a href="#">Speed-e Car Wash</a>	24 N RIVER AVE HOLLAND, MI 49423 (616) 392-3374	Speed-E Car Wash	24 N RIVER AVE HOLLAND, MI 49423 (616) 392-3374	0
<a href="#">50005750</a>	<a href="#">STA 06+24 SE of the Intersection of Douglas &amp; River</a>		Ottawa Co Road Comm	PO Box 739 Grand Haven, MI 49417 (616) 842-5400	0
<a href="#">00007870</a>	<a href="#">Street Department Warehouse</a>	240 Fairbanks Ave Holland, MI 49423 (616) 394-1359	City Of Holland	270 S River Ave Holland, MI 49423 (616) 394-1357	0
<a href="#">00040300</a>	<a href="#">Sunoco #0009-1256</a>	264 E 8th St Holland, MI 49423 (215) 246-8513	Sunoco Inc (R&M)	1735 Market St 12nd Floor Philadelphia, PA 19103	0
<a href="#">00036949</a>	<a href="#">Tele-rad Inc</a>	755 Windcrest Dr Holland, MI 49423 (616) 392-8209	Tele-Rad Inc	540 E 24th St Holland, MI 49423 (616) 392-8209	0
<a href="#">00033302</a>	<a href="#">The Oil Can</a>	95 WEST 8TH ST HOLLAND, MI 49423 (616) 394-0666	John Vander Warf	675 Chicago Dr Holland, MI 49423 (616) 394-0666	0
<a href="#">00004522</a>	<a href="#">Thermotron Inc</a>	291 Kollen Park Dr Holland, MI 49423 (616) 392-1491	Thermotron Inc	291 Kollen Park Dr Holland, MI 49423 (616) 392-1491	0
<a href="#">00018794</a>	<a href="#">Thermotron, Inc</a>	836 Brooks Ave Holland, MI 49423 (616) 392-1491	Thermotron, Inc	836 Brooks Ave Holland, MI 49423 (616) 392-1491	0
<a href="#">00007558</a>	Tiara Yachts formerly S-2	725 E 40th St Holland, MI 49423 (616) 392-7163	Tiara Yachts (Formerly S-2)	725 E 40th St Holland, MI 49423 (616) 392-7163	0
<a href="#">00013451</a>	<a href="#">Trans Matic Mfg Inc</a>	300 E 48th St Holland, MI 49423 (616) 396-1441	Trans Matic Mfg Inc	300 E 48th St Holland, MI 49423 (616) 396-1441	0
<a href="#">00036624</a>	<a href="#">Trt-etna</a>	783 Chicago Dr Holland, MI 49423 (616) 543-4342	Trt Co	540 E 24th St Holland, MI 49423 (616) 396-9579	0
<a href="#">00011909</a>	<a href="#">United Colonial</a>	321 E 8th St Holland, MI 49423 (317) 875-8500	Emro Marketing Co	Po Box 1500 Springfield, OH 45501 (937) 864-3000	0
<a href="#">00017586</a>	<a href="#">V &amp; S Siding, Inc</a>	2505 VAN OMMEN DR HOLLAND, MI 49423	V & S Siding, Inc	2505 VAN OMMEN DR HOLLAND, MI 49423 (616)	0

		(616) 399-6240		399-6240	
<a href="#">00033725</a>	<a href="#">Vacant Property</a>	159 S River Ave Holland, MI 49423 (606) 341-8880	Tire Centers, Inc	300 N Cleveland Massillon Rd Ste 200 Akron, OH 44333 (216) 668-8800	0
<a href="#">00013546</a>	<a href="#">Valvoline Instant Oil Change</a>	1027 Washington Ave Holland, MI 49423 (606) 264-2271	Valvoline Instant Oil Change	PO Box 14046 Lexington, KY 40512 (606) 264-7053	0
<a href="#">00038134</a>	<a href="#">Vandam Property</a>	200 EAST 15TH ST HOLLAND, MI 49423 (616) 774-2828	Gerald Vandam	785 Carpenter Ave NW Grand Rapids, MI 49504 (616) 453-1025	0
<a href="#">00007425</a>	<a href="#">Vandenberg Motors</a>	1191 S WASHINGTON ST HOLLAND, MI 49423 (616) 392-8425	OWNER ADDRESS UNKNOWN		0
<a href="#">00006539</a>	<a href="#">Verhage Of Holland Inc</a>	343 E 8th St Holland, MI 49423 (616) 396-3589	Verhage Of Holland Inc	343 E 8th St Holland, MI 49423 (616) 396-3589	0
<a href="#">00035337</a>	<a href="#">Versendaal Lincoln Mercury</a>	124 E 8th St Holland, MI 49423 (616) 396-4674	Versendaal Lincoln Mercury	124 E 8th St Holland, MI 49423 (616) 396-4674	0
<a href="#">00039651</a>	<a href="#">Vogelzang Storage Building</a>	71 EAST 8TH ST HOLLAND, MI 49423 (616) 396-4671	Vogelzang Hardware Inc	66 E 8TH ST HOLLAND, MI 49423 (616) 396-4671	0
<a href="#">00036747</a>	<a href="#">Waverly Yard</a>	WAVERLY RD HOLLAND, MI 49423 (904) 359-7527	CSX Transportation Inc	500 Water Street J-275 Jacksonville, FL 32202 (904) 359-3101	0
<a href="#">00033568</a>	<a href="#">William Galt</a>	344 WEST 16TH ST HOLLAND, MI 49423 (312) 332-6835	William Galt	135 A. LA SALLE ST CHICAGO, IL 60603 (312) 332-6835	0
<a href="#">00033263</a>	<a href="#">Windmill Station</a>	1649 WEST 32ND ST HOLLAND, MI 49423 (616) 396-4671	M. Vogelzang/Vogelsang Hardware	66 E 8TH ST HOLLAND, MI 49423 (616) 396-4671	0

# **Appendix K**

## **Leaking Underground Storage Tanks**

Underground Storage Tank System Releases (Part 213)



● Open

Underground Storage Tank System Releases (Part 213)



 Closed

# Leaking Underground Storage Tanks (Status: OPEN)

An **OPEN LUST** site means a location where a release has occurred from an underground storage tank system, and where corrective actions have not been completed to meet the appropriate land use criteria. An OPEN LUST site may have more than one confirmed release.

Site ID	Site Name	Site Address	Owner Name	Owner Address
<a href="#">00002496</a>	<a href="#">Admiral Petroleum Co #11</a>	61 E 24th St Holland, MI 49423 (616) 837-6218	Admiral Petroleum Co	13 E Randall St Coopersville, MI 49404 (616) 837-6218
<a href="#">00011636</a>	<a href="#">Ameritech - Holland Garage</a>	245 E 24th Street Holland, MI 49423 (877) 648-2073	AT&T Michigan	308 S Akard Ste 1700 Dallas, TX 75202 (887) 648-2073
<a href="#">00005723</a>	<a href="#">Amoco #5148</a>	377 S River Ave Holland, MI 49423 (231) 946-2800	Schmuckal Oil Co	1516 Barlow Traverse City, MI 49686 (231) 946-2800
<a href="#">00013331</a>	<a href="#">Amoco - Boes</a>	543 Chicago Dr Holland, MI 49423 (616) 392-7036	Merle Boes Inc	11372 E Lakewood Blvd Holland, MI 49424 (616) 392-8249
<a href="#">00011511</a>	<a href="#">Arvco Discount Tire</a>	162 E 8th St Holland, MI 49423 (616) 392-2333	Boeve Oil	Po Box 1186 Holland, MI 49422 (616) 392-2333
<a href="#">00017857</a>	<a href="#">Bill's Total</a>	316 S RIVER AVE HOLLAND, MI 49423 (616) 392-2636	William D. Voss	465 E 8th St Holland, MI 49423 (616) 392-2636
<a href="#">00011508</a>	<a href="#">Boeve Oil - Lincoln</a>	715 Lincoln Ave Holland, MI 49423 (616) 994-4505	Ottawa County	12220 Fillmore St West Olive, MI 49460 (616) 994-4505
<a href="#">00007870</a>	<a href="#">City Of Holland Warehouse</a>	240 Fairbanks Ave Holland, MI 49423 (616) 394-1359	City Of Holland	270 S River Ave Holland, MI 49423 (616) 394-1357
<a href="#">00012335</a>	<a href="#">Clark Station #481</a>	197 EAST 8TH ST HOLLAND, MI 49423 (313) 291-2771	Clark Refining & Marketing Inc	8000 Beech Daly Rd Taylor, MI 48180 (313) 291-7427
<a href="#">00012177</a>	<a href="#">Clark Store #392</a>	671 Michigan Ave Holland, MI 49423 231-864-3111	Blarney Castle Oil Co	PO Box 246 Bear Lake, MI 49614 (231) 864-3111
<a href="#">00021883</a>	<a href="#">Crystal Flash Holland #21</a>	746 Chicago Dr Holland, MI 49423 (937) 863-7071	Speedway SuperAmerica LLC	PO Box 1500 Springfield, OH 45501 (937) 864-3000
<a href="#">00001965</a>	<a href="#">Denoyer Chevrolet</a>	600 E 8th St Holland, MI 49423 (231) 275-3479	Robert Denoyer Chev Inc	600 E 8th St Holland, MI 49423 (616) 396-2333
<a href="#">00034441</a>	<a href="#">Donnelly Corp</a>	611 Ottawa Ave Holland, MI 49423 (616) 394-2480	Donnelly Corp	414 E 40th St Holland, MI 49423 (616) 394-2200
<a href="#">00016580</a>	<a href="#">Former Holland Motor Express</a>	111 Central Ave Holland, MI 49423 (616)	Tnt Holland Motor Express	750 E 40th St Holland, MI 49423 (616)

		392-2389		395-5160
<a href="#">00009932</a>	<a href="#">Gra Bell Truck Lines</a>	A-5253 144th Avenue Holland, MI 49423 (616) 396-1453	GRA-Bell Truck Line Inc	931 Interchange Dr Holland, MI 49422 (616) 396-1453
<a href="#">00009932</a>	<a href="#">Gra-bell Truck Line</a>	A-5253 144th Avenue Holland, MI 49423 (616) 396-1453	GRA-Bell Truck Line Inc	931 Interchange Dr Holland, MI 49422 (616) 396-1453
<a href="#">50000258</a>	<a href="#">Hansen Machine</a>	165 DOUGLAS HOLLAND, MI 49423 ( ) -	Nrt Owner	
<a href="#">50002096</a>	<a href="#">Healthiatry Center (Rite Aid)</a>	975 S WASHINGTON HOLLAND, MI 49423	ADDRESS UNKNOWN	
<a href="#">00008034</a>	<a href="#">Heidema Brothers</a>	166 E LAKEWOOD BLVD. HOLLAND, MI 49423 ( ) -	Heidema Brothers, Inc	5496 N 144TH AVE HOLLAND, MI 49424 (616) 396-6551
<a href="#">00009675</a>	<a href="#">Holland Public Schools Bus Garage</a>	870 S Waverly Rd Holland, MI 49423 (616) 494-2950	City of Holland School District	870 S Waverly Rd Holland, MI 49423 (616) 494-2950
<a href="#">00000952</a>	<a href="#">Lakeside Auto Sales</a>	24 N RIVER AVE HOLLAND, MI 49423 (616) 392-3374	Speed-E Car Wash	24 N RIVER AVE HOLLAND, MI 49423 (616) 392-3374
<a href="#">00002753</a>	<a href="#">Lumir II (Former Hope Imports)</a>	1049 Washington Ave Holland, MI 49423 (616) 395-3744	Lumir Corp	36 W 8th St Ste 250 Holland, MI 49423 (616) 392-2580
<a href="#">00004067</a>	<a href="#">Marathon Quick Mart</a>	494 East 32nd Street Holland, MI 49423 (269) 277-1318	Gunwant K Singh	1267 Quail Creek Dr Holland, MI 49423 (269) 621-6076
<a href="#">00004671</a>	<a href="#">Marina Bay</a>	561 Crescent Dr Holland, MI 49423 (616) 538-8130	OWNER ADDRESS UNKNOWN	
<a href="#">00007421</a>	<a href="#">Quality Car Wash</a>	149 S River Ave Holland, MI 49423 (616) 396-3858	Quality Car Wash	581 Ottawa Ave Ste 300 Holland, MI 49423 (616) 396-3858
<a href="#">00007422</a>	<a href="#">Quality Car Wash</a>	523 West 17th Street S Shore Holland, MI 49423 (616) 396-3858	Quality Car Wash	581 Ottawa Ave Ste 300 Holland, MI 49423 (616) 396-3858
<a href="#">50001720</a>	<a href="#">Right Of Way</a>	238 NORTH 120TH AVENUE HOLLAND, MI 49423 (616) 842-5400	Nrt Owner	
<a href="#">00001965</a>	<a href="#">Robert Denooyer Chevrolet Inc</a>	600 E 8th St Holland, MI 49423 (231) 275-3479	Robert Denooyer Chev Inc	600 E 8th St Holland, MI 49423 (616) 396-2333
<a href="#">00038295</a>	<a href="#">Roscoe's Corner Cafe</a>	2 W NINTH ST HOLLAND, MI 49423 (616) 456-7758	Dr Christian Helmus	21 MICHIGAN DR NE GRAND RAPIDS, MI 49503 (616) 456-7758
<a href="#">00009675</a>	<a href="#">Ryder Truck Rental I</a>	870 S Waverly Rd Holland, MI 49423 (616) 494-2950	City of Holland School District	870 S Waverly Rd Holland, MI 49423 (616) 494-2950
<a href="#">50001720</a>	<a href="#">Short Cut Garage</a>	238 NORTH 120TH AVENUE HOLLAND, MI 49423 (616) 842-5400	Nrt Owner	
<a href="#">00013471</a>	<a href="#">South River Shell</a>	363 S RIVER HOLLAND, MI 49423 (616)	Schmuckal Oil Co	1516 Barlow Traverse City, MI 49686 (231)



		946-0751		946-2800
<a href="#">00016422</a>	<a href="#">Sprayon (Guardsman)</a>	636 E 40th St Holland, MI 49423 (616) 957-2600	Guardsman Chemicals Inc	PO Box 1521 Grand Rapids, MI 49501 (616) 957-2600
<a href="#">50005750</a>	<a href="#">STA 06+24 SE of the Intersection of Douglas &amp; River</a>		Ottawa Co Road Comm	PO Box 739 Grand Haven, MI 49417 (616) 842-5400
<a href="#">00040300</a>	<a href="#">Sunoco #0009-1256</a>	264 E 8th St Holland, MI 49423 (215) 246-8513	Sunoco Inc (R&M)	1735 Market St 12nd Floor Philadelphia, PA 19103 (215) 246-8513
<a href="#">00033302</a>	<a href="#">The Oil Can</a>	95 WEST 8TH ST HOLLAND, MI 49423 (616) 394-0666	John Vander Warf	675 Chicago Dr Holland, MI 49423 (616) 394-0666
<a href="#">00033263</a>	<a href="#">The Windmill Station</a>	1649 WEST 32ND ST HOLLAND, MI 49423 (616) 396-4671	M. Vogelzang/Vogelsang Hardware	66 E 8TH ST HOLLAND, MI 49423 (616) 396-4671
<a href="#">00019273</a>	<a href="#">Voss Boys</a>	881 Lincoln Ave Holland, MI 49423 (616) 392-3898	OWNER ADDRESS UNKNOWN	
<a href="#">00009395</a>	<a href="#">Wesco Store #4-Lakewood Blvd.</a>	14 W Lakewood Blvd Holland, MI 49423 (231) 719-4300	Wesco Inc	1460 Whitehall Rd Muskegon, MI 49445 (231) 719-4300

# Leaking Underground Storage Tanks (Status: CLOSED)

**A CLOSED LUST** site means a location where a release has occurred from an underground storage tank system, and where corrective actions have been completed to meet the appropriate land use criteria. The MDEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria.

Site ID	Site Name	Site Address	Owner Name	Owner Address
<a href="#">0000927</a>	<a href="#">All Phase Electric</a>	148 S Waverly Rd Holland, MI 49423 (616) 428-2700	All-Phase Electric Supply Co	875 Riverview Dr Benton Harbor, MI 49022 (616) 926-6194
<a href="#">00011711</a>	<a href="#">Ameritech - Central Office</a>	13 W 10th St Holland, MI 49423 (866) 492-6836	AT&T Michigan	308 S Akard Ste 1700 Dallas, TX 75202 (887) 648-2073
<a href="#">50000086</a>	<a href="#">Beatrice Cheese</a>	147 E 6th St Holland, MI 49423 ( ) -	Nrt Owner	
<a href="#">00010860</a>	<a href="#">Boeve Oil (Mikes Mobil)</a>	772 Lincoln Ave Holland, MI 49423 (616) 396-5635	Mikes Mobil Inc	772 Lincoln Ave Holland, MI 49423 (616) 396-5635
<a href="#">00011509</a>	<a href="#">Boeve Oil Co</a>	105 W 17th St Holland, MI 49423 (616) 392-2333	Boeve Oil	Po Box 1186 Holland, MI 49422 (616) 392-2333
<a href="#">00011512</a>	<a href="#">Boeve Oil Co (S. Washington)</a>	775 S WASHINGTON AVE HOLLAND, MI 49423 (616) 392-2333	Boeve Oil	Po Box 1186 Holland, MI 49422 (616) 392-2333
<a href="#">00020356</a>	<a href="#">Brink Farms</a>	A 5717 138TH AVENUE HOLLAND, MI 49423 (616) 751-5965	Brink Farms Inc	A 5717 138TH AVE HOLLAND, MI 49423 (616) 751-5965
<a href="#">00009651</a>	<a href="#">Cheker Unit 7180</a>	ROUTE 2 M-21 EAST 112 & LAKEWOOD HOLLAND, MI 49423 (321) 335-0600	Emro Marketing Co	Po Box 1500 Springfield, OH 45501 (937) 864-3000
<a href="#">00011076</a>	<a href="#">Crystal Flash Petroleum</a>	800 S Washington Holland, MI 49423 (616) 386-3599	Speedway SuperAmerica LLC	PO Box 1500 Springfield, OH 45501 (937) 864-3000
<a href="#">00036747</a>	<a href="#">Csx Transportation- #1</a>	WAVERLY RD HOLLAND, MI 49423 (904) 359-7527	CSX Transportation Inc	500 Water Street J-275 Jacksonville, FL 32202 (904) 359-3101
<a href="#">00035583</a>	<a href="#">Elhart Dodge Nissan</a>	870 Chicago Dr Holland, MI 49423 (616) 396-0441	Elhart Dodge Nissan Inc	870 Chicago Dr Holland, MI 49423 (616) 396-0441
<a href="#">00002551</a>	<a href="#">Elhart Pontiac</a>	822 Chicago Dr Holland, MI 49423 (616) 392-8516	Elhart Pontiac Amc Gmc, Inc	822 Chicago Dr Holland, MI 49423 (616) 392-8516
<a href="#">00002551</a>	<a href="#">Elhart Pontiac Amc Gmc, Inc.</a>	822 Chicago Dr Holland, MI 49423 (616) 392-8516	Elhart Pontiac Amc Gmc, Inc	822 Chicago Dr Holland, MI 49423 (616) 392-8516

<a href="#">00014962</a>	<a href="#">Enzinga &amp; Volkers Incorporated</a>	86 E 6th St Holland, MI 49423 (616) 392-2383	Elzinga & Volkers Inc	86 E 6th St Holland, MI 49423 (616) 392-2383
<a href="#">00037825</a>	<a href="#">Fillmore Properties Ltd Partnership</a>	A-5263 144th Ave Holland, MI 49423 (616) 392-7036	Fillmore Prop Ltd Ptnp	PO Box 2365 Holland, MI 49422 (616) 392-7036
<a href="#">50000124</a>	<a href="#">First Michigan Bank</a>	1079 Washington Ave Holland, MI 49423 ( ) -	Nrt Owner	
<a href="#">50001763</a>	<a href="#">Former Ee Fell Building</a>	372 S River Ave Holland, MI 49423 ( ) -	Nrt Owner	
<a href="#">00035481</a>	<a href="#">Fris Office Outfitters</a>	109 S River Ave Holland, MI 49423	Fris Office Outfitters	109 S River Ave Holland, MI 49423 (616) 396-2341
<a href="#">50000134</a>	<a href="#">General Electric- 16th St.</a>	570 E 16TH ST HOLLAND, MI 49423 ( ) -	Nrt Owner	
<a href="#">50000134</a>	<a href="#">General Electric-16th St.</a>	570 E 16TH ST HOLLAND, MI 49423 ( ) -	Nrt Owner	
<a href="#">00036383</a>	<a href="#">Genzink, James Property</a>	1225 Graafschap Rd Holland, MI 49423 (616) 396-4145	James Genzink	A-6037 146th Ave Holland, MI 49423 (616) 396-4145
<a href="#">50000257</a>	<a href="#">Hamilton Land Company</a>	4300 Lincoln Rd Holland, MI 49423 ( ) -	Nrt Owner	
<a href="#">00007754</a>	<a href="#">Holland Christian Schools</a>	950 Ottawa Ave Holland, MI 49423 (616) 396-1479	Holland Christian Schools	950 Ottawa Ave Holland, MI 49423 (616) 396-1479
<a href="#">00015258</a>	<a href="#">Holland Community Hospital</a>	602 Michigan Ave Holland, MI 49423 (616) 392-5141	Holland Comm Hospital	602 Michigan Ave Holland, MI 49423 (616) 392-5141
<a href="#">00000232</a>	<a href="#">Holland Police Department</a>	65 W 8th St Holland, MI 49423 (616) 394-1357	City Of Holland	270 S River Ave Holland, MI 49423 (616) 394-1357
<a href="#">00014960</a>	<a href="#">Hope College Transportation Gara</a>	176 E 19th St Holland, MI 49423 (343) 394-7838	Hope College	180 E 11th St Holland, MI 49423 (616) 392-5111
<a href="#">00034014</a>	<a href="#">Interior Images</a>	630 E 32nd St Holland, MI 49423 (616) 396-6395	Interior Images	630 E 32nd St Holland, MI 49423 (616) 396-6395
<a href="#">00005209</a>	<a href="#">Kalkman Ready Mix</a>	12450 JAMES & US 31 HOLLAND, MI 49423 (616) 399-3059	Grand Rapids Gravel Co	2700 28th St SW Wyoming, MI 49509 (616) 538-9000
<a href="#">00010767</a>	<a href="#">Lamb, Inc.</a>	107 E 8th St Holland, MI 49423 (616) 392-8053	Lamb, Inc	107 E 8th St Holland, MI 49423 (616) 392-8571
<a href="#">00016239</a>	<a href="#">Louis Padnos Iron And Metal</a>	120 S River Ave Holland, MI 49423 (616) 396-8093	Louis Padnos Iron & Metal Co	PO Box 1979 Holland, MI 49422 (616) 396-6521
<a href="#">00036383</a>	<a href="#">Genzink, James Property</a>	1225 Graafschap Rd Holland, MI 49423 (616) 396-4145	James Genzink	A-6037 146th Ave Holland, MI 49423 (616) 396-4145
<a href="#">00037073</a>	<a href="#">Lumir Corporation</a>	723 MICHIGAN HOLLAND, MI 49423 (616) 392-2580	Lumir Corp	36 W 8th St Ste 250 Holland, MI 49423 (616) 392-2580
<a href="#">00007425</a>	<a href="#">Lumir Corporation</a>	1191 S WASHINGTON ST HOLLAND, MI	OWNER ADDRESS	

	<a href="#">(vandenburg Mo</a>	49423 (616) 392-8425	UNKNOWN	
<a href="#">00008774</a>	<a href="#">Maplewood Phillips 66 Service</a>	777 Columbia Ave Holland, MI 49423 (616) 392-4936	Maplewood Auto Inc	777 Columbia Ave Holland, MI 49423 (616) 392-4936
<a href="#">00037719</a>	<a href="#">MDOT Right Of Way: Us-31</a>	US 31 BR NEAR 8TH ST HOLLAND, MI 49423 (616) 722-7625	MDOT - Department of Transportation	1774 Madison St Muskegon, MI 49442 (616) 722-7625
<a href="#">00034443</a>	<a href="#">Meijer #47</a>	746 E 16th St Holland, MI 49423 (616) 396-7221	Meijer Inc	2929 Walker Ave NW Grand Rapids, MI 49544 (616) 791-3390
<a href="#">00001308</a>	<a href="#">Michigan Dunes Correctional Faci</a>	6605 WEST 138TH AVENUE HOLLAND, MI 49423 (616) 773-3201	MDOC - Muskegon Correctional Facility	2400 S Sheridan Rd Muskegon, MI 49442 (616) 773-3201
<a href="#">00007919</a>	<a href="#">Modern Beverage Co.</a>	400 Center St Holland, MI 49423	Modern Beverage Co	400 Center St Holland, MI 49423 (616) 392-3533
<a href="#">00011053</a>	<a href="#">Orbit Corp Unit #or-102</a>	520 Chicago Dr Holland, MI 49423 (	Orbit Corp	1320 N Lasalle Chicago, IL 60610 (312) 337-1320
<a href="#">00036536</a>	<a href="#">Overisel Lumber Company</a>	573 E 32nd St Holland, MI 49423 (616) 396-2319	Overisel Lumber Co	573 E 32nd St Holland, MI 49423 (616) 396-2319
<a href="#">00011448</a>	<a href="#">Planters Life Savers</a>	635 E 48th St Holland, MI 49423 (616) 396-1411	Nabisco Brands Inc	500 LANIDEZ PLAZA PARSIPPANY, NJ 07054 (201) 428-5584
<a href="#">00018948</a>	<a href="#">Prince Corporation</a>	35 MADISON AVE HOLLAND, MI 49423 (616) 392-5151	Prince Corp	1 Prince Ctr Holland, MI 49423 (616) 392-5151
<a href="#">00035439</a>	<a href="#">Prince Corporation, Southview Ca</a>	1600 S Washington Ave Holland, MI 49423 (616) 394-8102	Prince Corp	1 Prince Ctr Holland, MI 49423 (616) 392-5151
<a href="#">00004213</a>	<a href="#">Prince Hangar</a>	1585 S Washington 1583 S Washington (formerly) Holland, MI 49423	Wingspan LLC	1585 S Washington Ave Holland, MI 49423 (616) 394-8350
<a href="#">00004213</a>	<a href="#">Prince Hanger</a>	1585 S Washington 1583 S Washington (formerly) Holland, MI 49423 (	Wingspan LLC	1585 S Washington Ave Holland, MI 49423 (616) 394-8350
<a href="#">00017241</a>	<a href="#">R.e. Barber Ford</a>	640 E 8th St Holland, MI 49423	R.E. Barber Ford, Inc	640 E 8th St Holland, MI 49423 (616) 396-2361
<a href="#">50000092</a>	<a href="#">Rivulet Hurst Dairy</a>	778 LINCOLN HOLLAND, MI 49423 ( ) -	Nrt Owner	
<a href="#">00006301</a>	<a href="#">Rv Investors</a>	670 E 16th St Holland, MI 49423	Rv Investors	670 E 16th St Holland, MI 49423 (616) 396-1461
<a href="#">00017837</a>	<a href="#">Ryder Truck Rental II</a>	284 E 48th St Holland, MI 49423 (616) 392-7011	Ryder Transportation Service	C/o Ryder Fuel Services 16155 Park Row Suite 140 Houston, TX 77084 713-426-4800
<a href="#">00007558</a>	<a href="#">S-2 Yachts Inc</a>	725 E 40th St Holland, MI 49423 (616) 392-7163	Tiara Yachts (Formerly S-2)	725 E 40th St Holland, MI 49423 (616) 392-7163
<a href="#">00007558</a>	<a href="#">S-2 Yachts, Inc.</a>	725 E 40th St Holland, MI 49423 (616) 392-7163	Tiara Yachts (Formerly S-2)	725 E 40th St Holland, MI 49423 (616) 392-7163

# **Appendix L**

## **NOAA Navigational Chart**

# BookletChart™

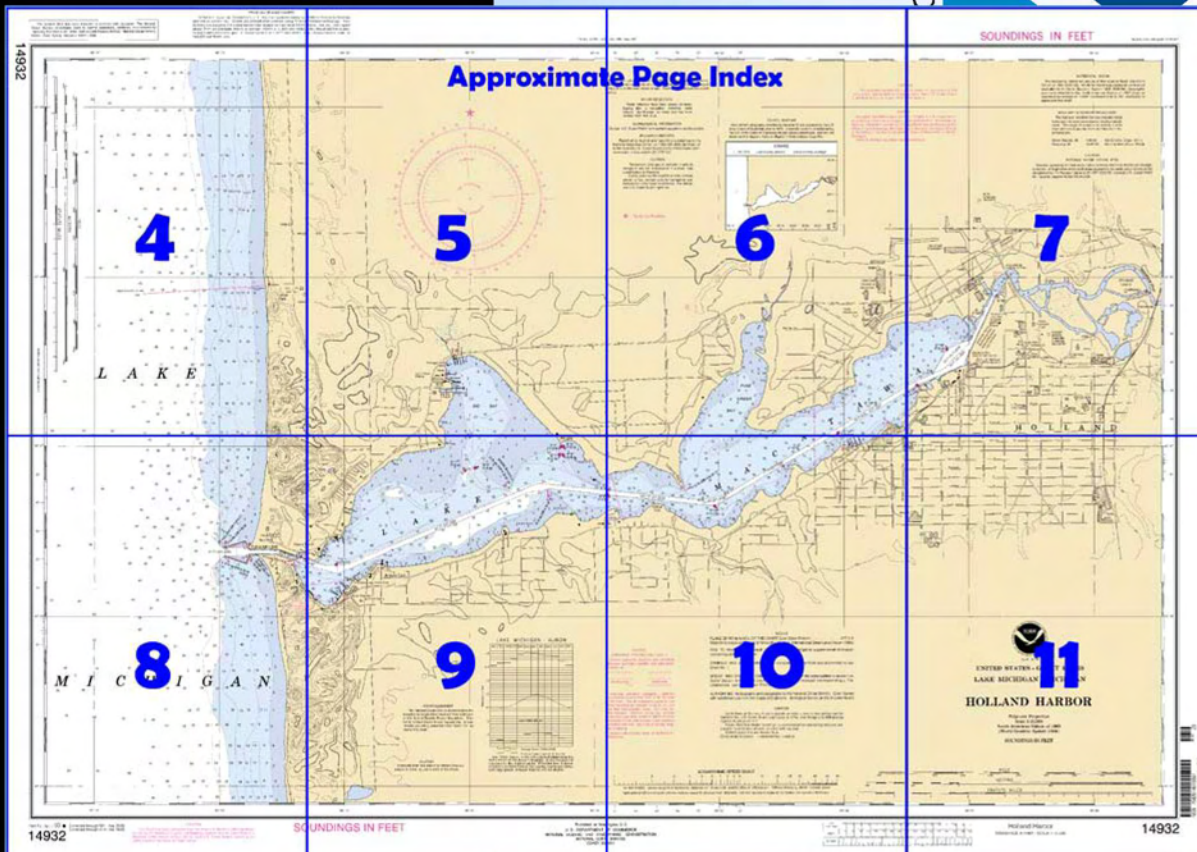
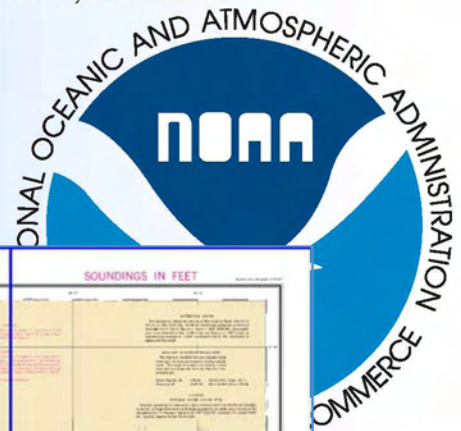
## Holland Harbor

(NOAA Chart 14932)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



**What are Nautical Charts?**

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America’s commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

**What is a BookletChart™?**

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

**Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



**[Coast Pilot 6, Chapter 11 excerpts]**  
 (326) **Holland Harbor**, 63 miles S of Little Sable Point, is formed by **Lake Macatawa**, which is connected to Lake Michigan at its W end by an improved channel. The lake extends 5 miles E to its head at the mouth of **Macatawa River** and has a least width of 1,000 feet near its midlength. The width increases to over 1 mile in the vicinity of **Big Bay** and **Pine Creek Bay**, two large indentations in the N shore of the lake. The city of **Holland, Mich.**, fronts the E shore and

much of the S shore of the lake. **Macatawa, Mich.**, is a small resort community on the SW side of the lake. The principal commodities handled in the port are coal, salt, cement, stone, and agricultural chemicals.

(327) **Holland Harbor North Breakwater Light** (42°46.4'N., 86°13.0'W.), 27 feet above the water, is shown from a white cylindrical tower with a green band on the outer end of the breakwater.

(334) **Holland Coast Guard Station** is on the N side of Lake Macatawa near the harbor entrance.

Harbor regulations

(335) Federal regulations specify a **speed limit** of 8 mph (7 knots) in Lake Macatawa. (See **33 CFR 162.120**, chapter 2, for regulations.) State regulations specify a **slow-no wake speed** off Central Park near midpoint of the lake, off Kollen Park at the E end of the lake, and from the mouth of Macatawa River upstream to a point 1,500 feet above the River Avenue bridge.

(342) There are numerous marinas throughout Lake Macatawa. Gasoline, diesel fuel, water, ice, electricity, sewage pump-out facilities, marine supplies, and launching ramps are available. Several lifts to 60 tons are available for hull, engine, and electronic repairs.

# Table of Selected Chart Notes

## Pump-out Facilities

Corrected through NM Apr. 26/03  
Corrected through LNM Apr. 08/03

**Polyconic Projection**  
Scale 1:15,000  
North American Datum of 1983  
(World Geodetic System 1984)

## SOUNDINGS IN FEET

### RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

### CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

### CAUTION

#### SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:



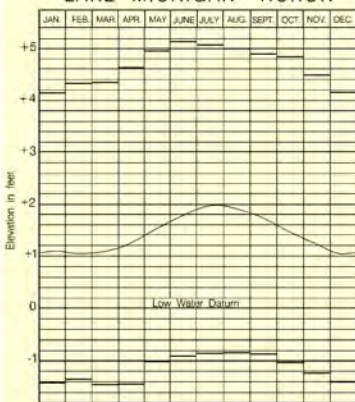
Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

### POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

## LAKE MICHIGAN - HURON



Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

### NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Grand Rapids, MI	KIG-63	162.55 MHz (Chan. WX-1)
Hesperia, MI	WWF-36	162.475 MHz (Chan. WX-3)

### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 6 for important supplemental information.

### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.086' northward and 0.144' westward to agree with this chart.

### CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

### WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot 6 for details.

### SOURCE DIAGRAM

Most of the hydrography identified by the letter 'J' was surveyed by the U.S. Army Corps of Engineers prior to 1974. Channels currently maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

### CAUTION

#### POTABLE WATER INTAKE (PWI)

Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Surgeon General (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

### CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

○ (Accurate location) ◐ (Approximate location)

### CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (NCS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

**AIDS TO NAVIGATION.** Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

**SYMBOLS AND ABBREVIATIONS.** For complete list of symbols and abbreviations see Chart No. 1.

**BRIDGE AND OVERHEAD CABLE CLEARANCES.** When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.

**AUTHORITIES.** Hydrography and topography by the National Ocean Service, Coast Survey with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

**PLANE OF REFERENCE OF THIS CHART (Low Water Datum)**.....577.5 ft.  
Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).

### PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, [help@NauticalCharts.gov](mailto:help@NauticalCharts.gov), or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or [help@OceanGrafix.com](mailto:help@OceanGrafix.com).

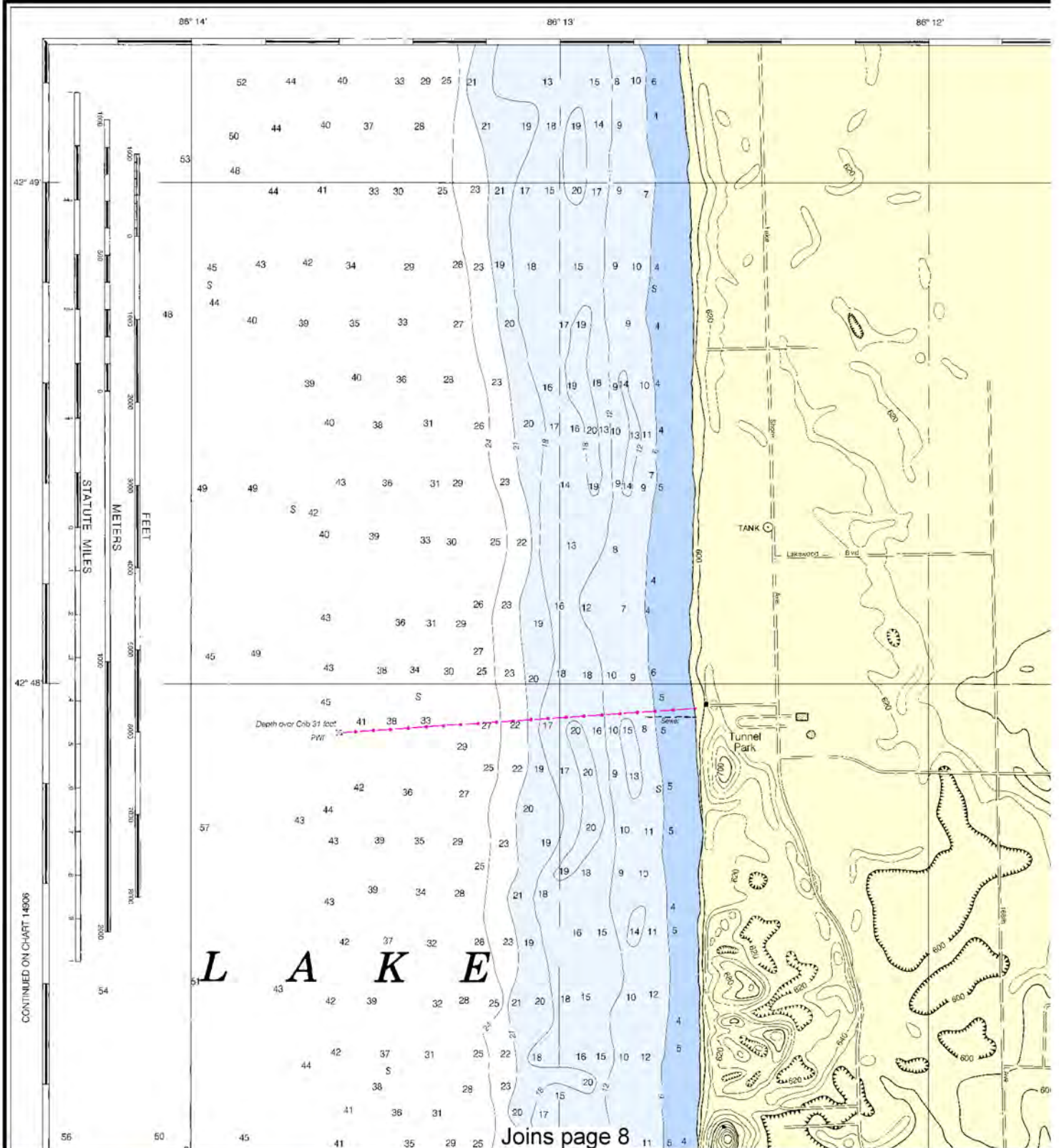


PRINT-ON-DEMAND CHARTS

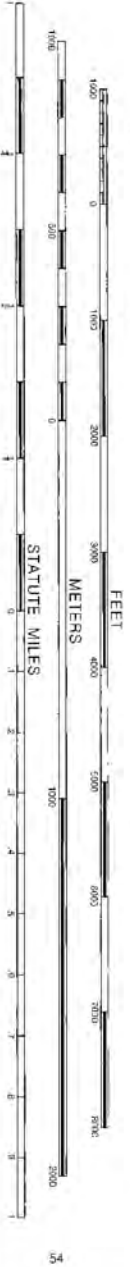
NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about: Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, [help@NauticalCharts.gov](mailto:help@NauticalCharts.gov), or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or [help@OceanGrafix.com](mailto:help@OceanGrafix.com).

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (NCS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910 - 3282.

14932



CONTINUED ON CHART 14935



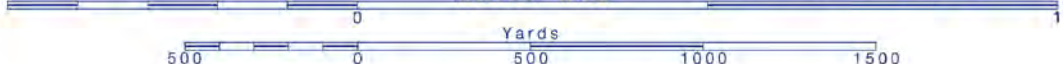
4



Printed at reduced scale.

SCALE 1:15,000  
Nautical Miles

See Note on page 5.



Joins page 8

86° 11'

86° 10'

50'

40'

30'

20'

10'

86° 09'

50'

**CAUTION**  
 Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

**RADAR REFLECTORS**  
 Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

**SUPPLEMENTAL INFORMATION**  
 Consult U.S. Coast Pilot 6 for important supplemental information.

**POLLUTION REPORTS**  
 Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

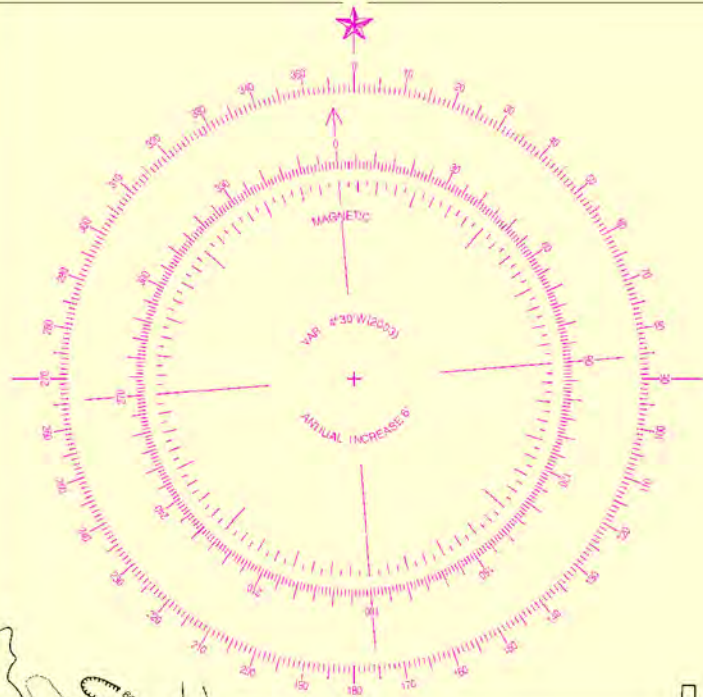
**CAUTION**  
 Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
 During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

Most of the hydr Army Corps of En the U.S. Army Col shown on this dia

Pre-1974

Joins page 6

86° 14' 86° 13'



Ⓟ Pump-out Facilities



Joins page 9

This BookletChart was reduced to 75% of the original chart scale.  
 The new scale is 1:20000. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

1' 86° 10' 50' 40' 30' 20' 10' 86° 09' 50' 86°

**CAUTION**  
Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

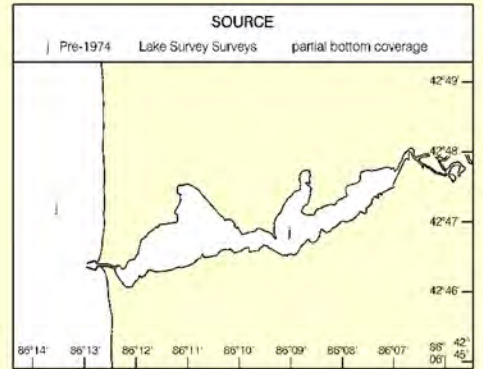
**RADAR REFLECTORS**  
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

**SUPPLEMENTAL INFORMATION**  
Consult U.S. Coast Pilot 6 for important supplemental information.

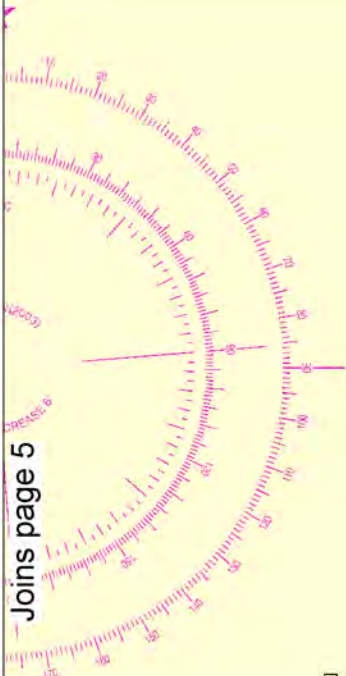
**POLLUTION REPORTS**  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

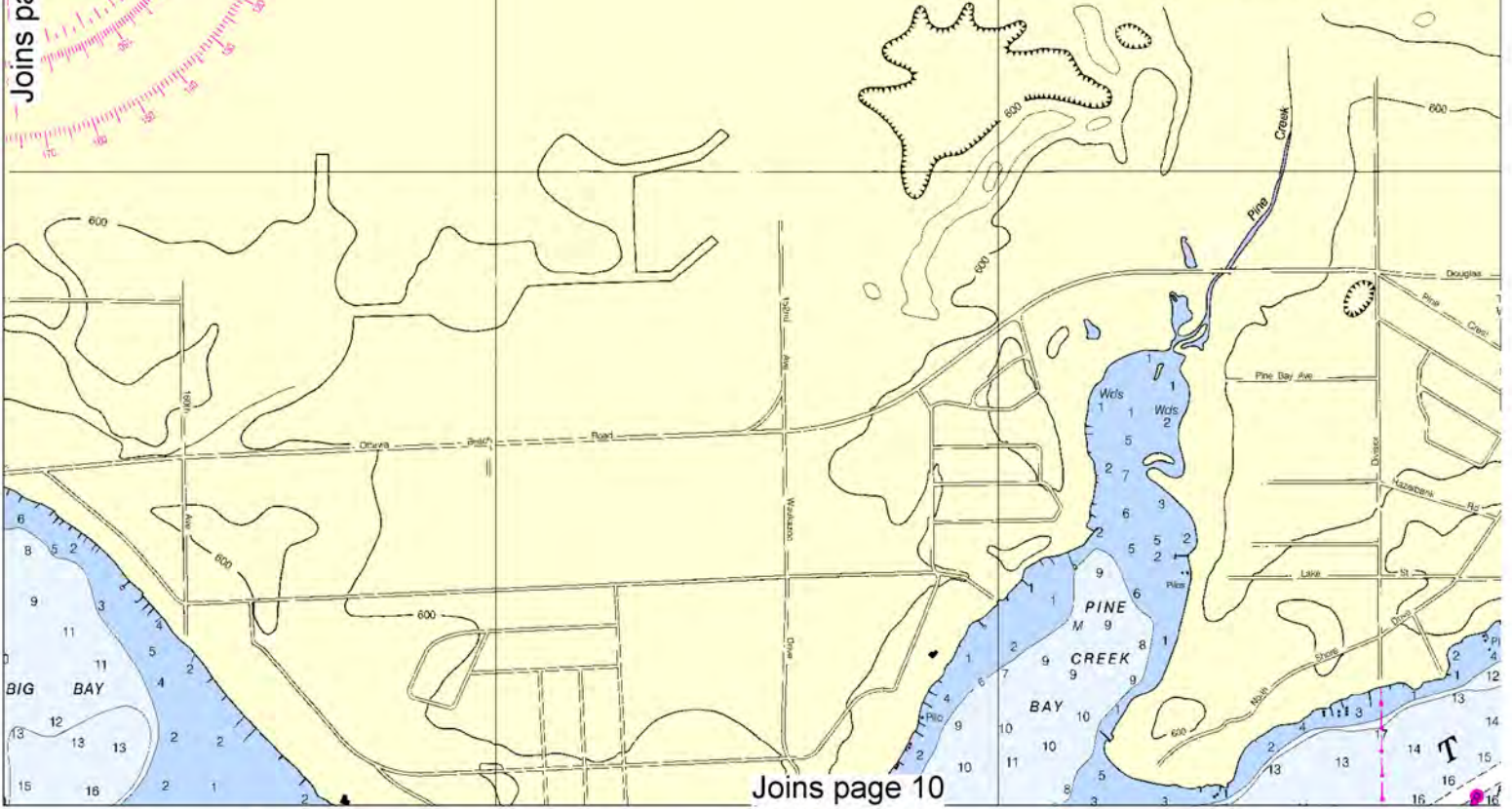
**SOURCE DIAGRAM**  
Most of the hydrography identified by the letter 'J' was surveyed by the U.S. Army Corps of Engineers prior to 1974. Channels currently maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.



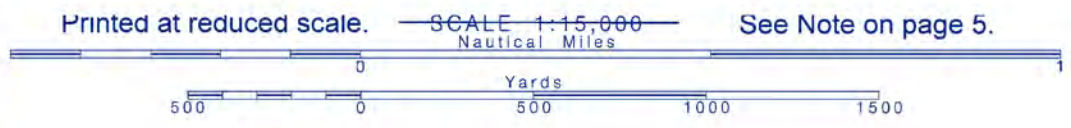
**P** Pump-out Facilities



Joins page 5

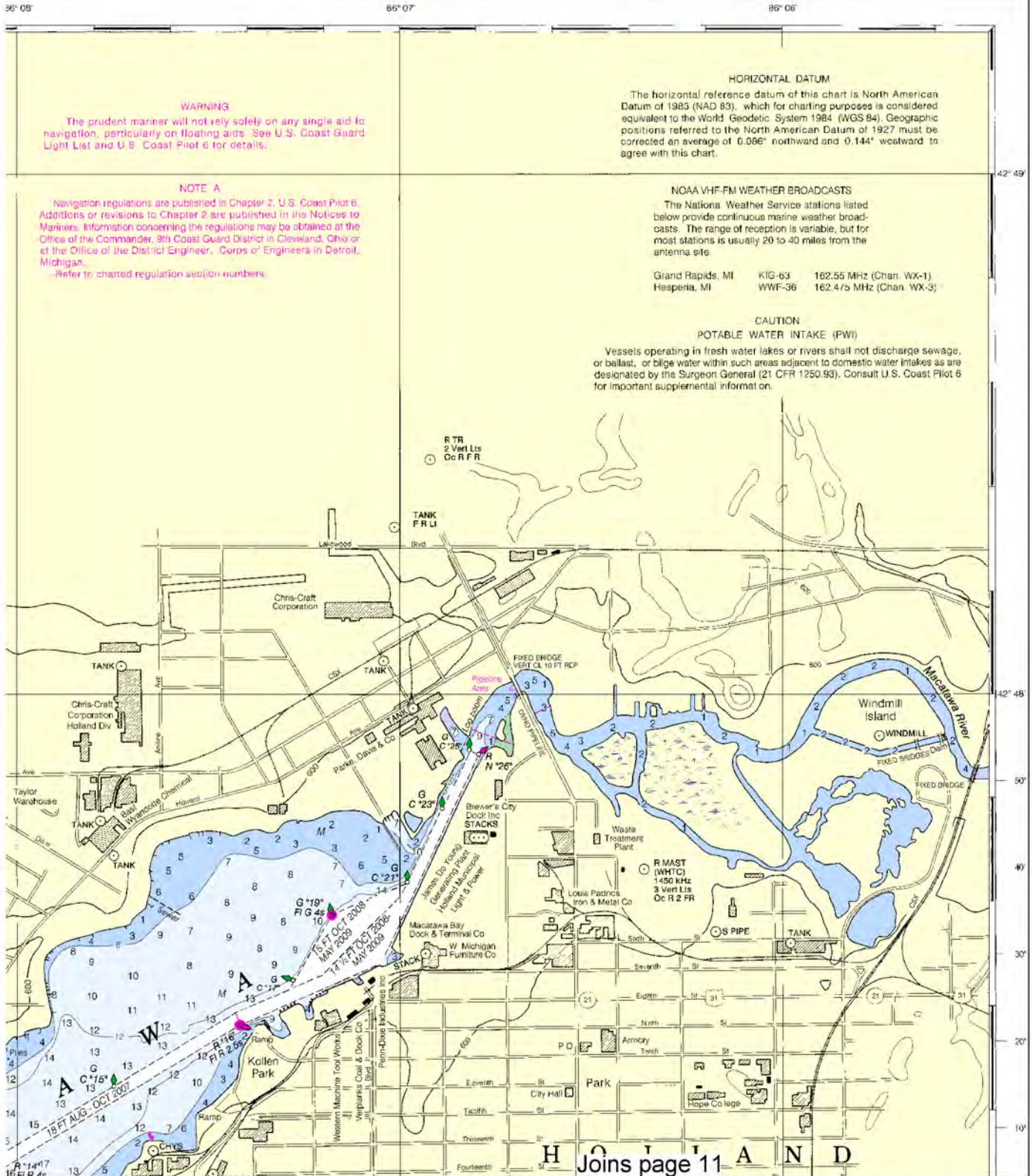


Joins page 10



# SOUNDINGS IN FEET

Nautical Chart Catalog No. 4, Panel C



**WARNING**

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot 6 for details.

**NOTE A**

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 3rd Coast Guard District in Cleveland, Ohio or at the Office of the District Engineer, Corps of Engineers in Detroit, Michigan.  
 -Refer to charted regulation section numbers.

**HORIZONTAL DATUM**

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.086" northward and 0.144" westward to agree with this chart.

**NOAA VHF-FM WEATHER BROADCASTS**

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Grand Rapids, MI	KIG-63	162.55 MHz (Chan. WX-1)
Hesperia, MI	WWF-36	162.475 MHz (Chan. WX-3)

**CAUTION**

**POTABLE WATER INTAKE (PWI)**

Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Surgeon General (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

Joins page 11 A N D

This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,  
 NGA Weekly Notice to Mariners: 0910 2/27/2010,  
 Canadian Coast Guard Notice to Mariners: 0110 1/29/2010.





# M I C H I G A N

23rd Ed., Apr. / 03 ■ Corrected through NM Apr. 26/03  
 Corrected through LNM Apr. 08/03

## 14932

### CAUTION

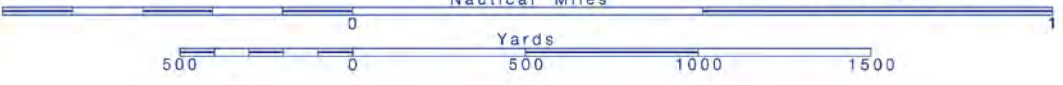
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

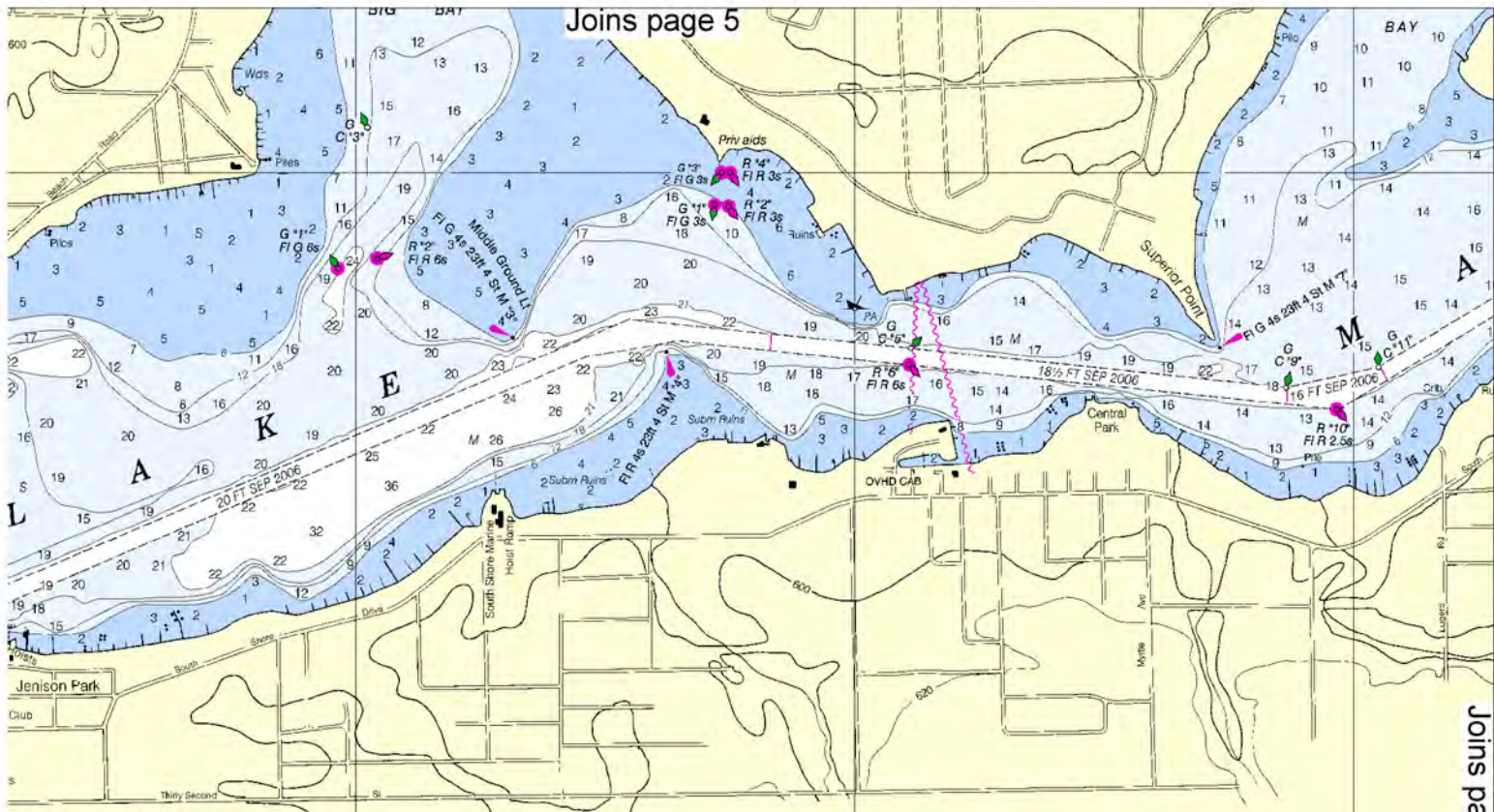
## SOUNDINGS IN FEET



Printed at reduced scale. — SCALE 1:15,000 —  
 Nautical Miles

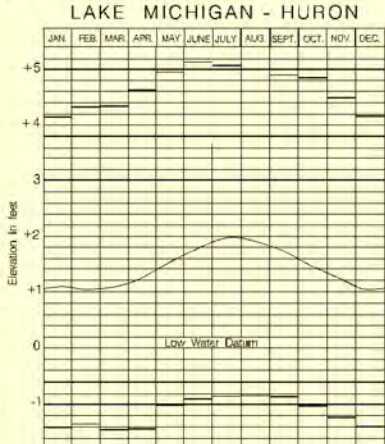
See Note on page 5.





**ACKNOWLEDGMENT**  
 The National Ocean Service acknowledges the exceptional cooperation received from members of the Grand Rapids Power Squadron, District 9, United States Power Squadrons, in continually providing essential information for revising this chart.

**CAUTION**  
 Improved channels shown by broken lines are subject to shoaling, particularly at the edges.



Average levels (1993-2002)  
 Extreme Levels (period of record)  
 Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
 Charted submarine pipelines and submarine cables and submarine pipelines and cable areas are shown as:

— — — — — Pipeline Area  
 ~ ~ ~ ~ ~ Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.  
 Coveroc wells may be marked by lighted or unlighted buoys.

PLANE OF REFERENCE  
 Referred to mean water level

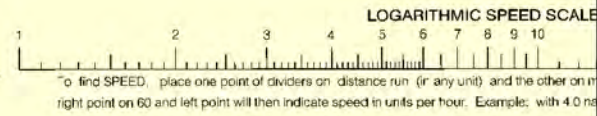
AIDS TO NAVIGATION  
 Concerning aids to navigation

SYMBOLS AND ABBREVIATIONS  
 Chart No. 1.

BRIDGE AND OVERHEAD  
 Water Datum, bridge and clearances see U.S. Coast and Geodetic Survey

AUTHORITIES, Hydrographic  
 with additional data from the

Limitations on the  
 found in the U.S. Coast  
 Agency Publication 1  
 Radio direction-finding  
 subject to error and  
 Station positions  
 (Accurate location)

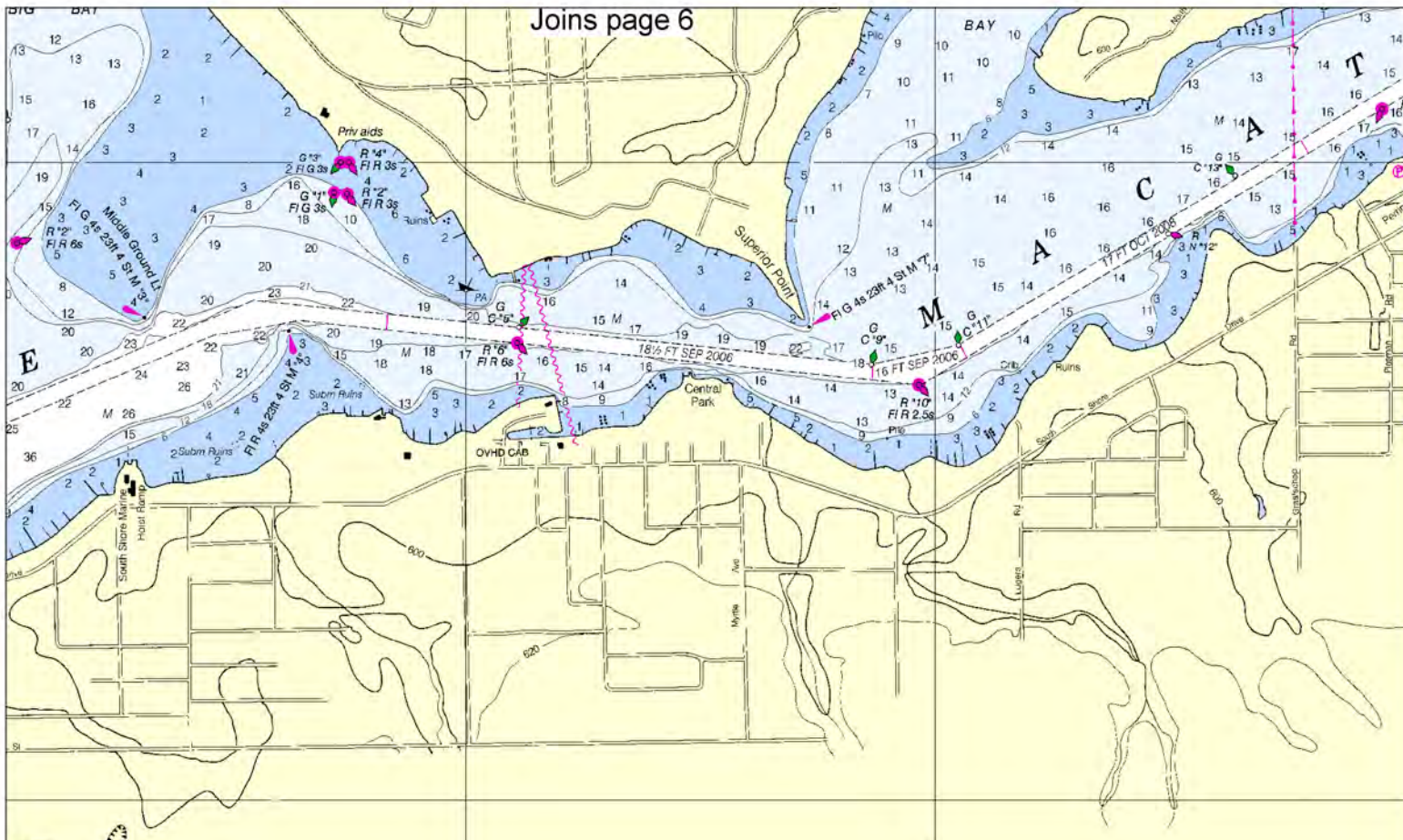


86° 11' 86° 10' 50' 40' 30' 20' 10' 86° 09' 50'

FEET

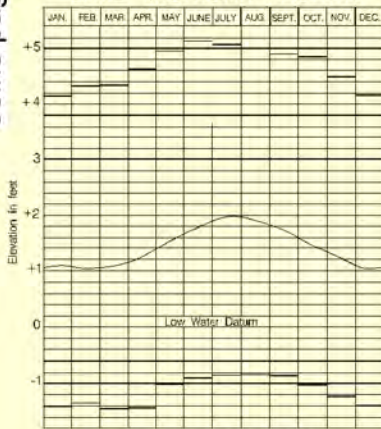
Published at Washington, D.C.  
 U. S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY

Joins page 6



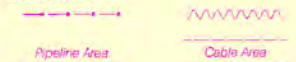
Joins page 9

LAKE MICHIGAN - HURON



Average levels (1993-2002)  
 Extreme Levels (period of record)  
 Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
 Charted submarine pipelines and submarine cables and submarine pipelines and cable areas are shown as:



Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.  
 Coveroc wells may be marked by lighted or unlighted buoys.

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum).....57  
 Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation on.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Water Datum, bridge and overhead clearances are reduced correspondingly; see U.S. Coast Pilot 6.

AUTHORITIES. Hydrography and topography by the National Ocean Service, Coast and Geodetic Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast and Geodetic Survey.

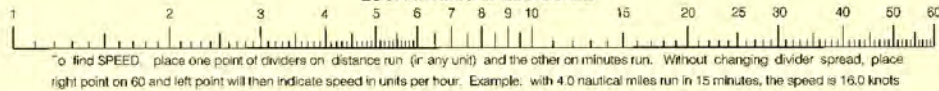
CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:  
 (O) (Accurate location) (o) (Approximate location)

LOGARITHMIC SPEED SCALE



Published at Washington, D.C.  
 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY

FATHOMS	
FEET	
METERS	

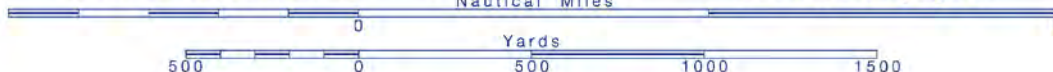
10



Printed at reduced scale.

SCALE 1:15,000  
 Nautical Miles

See Note on page 5.







## EMERGENCY INFORMATION

### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16 – Emergency, distress and safety calls** to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 & 78A** – Recreational boat channels.

### Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

### **HAVE ALL PERSONS PUT ON LIFE JACKETS !!**

**Mobile Phones** – Call 911 for water rescue.

**Coast Guard Search & Rescue (RCC)** – 216-902-6117

**Coast Guard S & R (Sector Great Lakes)** – 616-850-2501

**NOAA Weather Radio** – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

**Getting and Giving Help** – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

## NOAA CHARTING PUBLICATIONS

**Official NOAA Nautical Charts** – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Print-on-Demand Nautical Charts** – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at [www.OceanGrafix.com](http://www.OceanGrafix.com).

**Official Electronic Navigational Charts (NOAA ENC<sup>®</sup>)** – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Raster Navigational Charts (NOAA RNC<sup>™</sup>)** – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official BookletCharts<sup>™</sup>** – BookletCharts<sup>™</sup> are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is [www.NauticalCharts.gov/bookletcharts](http://www.NauticalCharts.gov/bookletcharts).

**Official PocketCharts<sup>™</sup>** – PocketCharts<sup>™</sup> are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

**Official U.S. Coast Pilot<sup>®</sup>** – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official On-Line Chart Viewer** – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is [www.NauticalCharts.gov/viewer](http://www.NauticalCharts.gov/viewer).

**Official Nautical Chart Catalogs** – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

**Internet Sites:** [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov), [www.NOAA.gov](http://www.NOAA.gov), [www.TidesandCurrents.NOAA.gov](http://www.TidesandCurrents.NOAA.gov), [www.NOS.NOAA.gov](http://www.NOS.NOAA.gov).

