

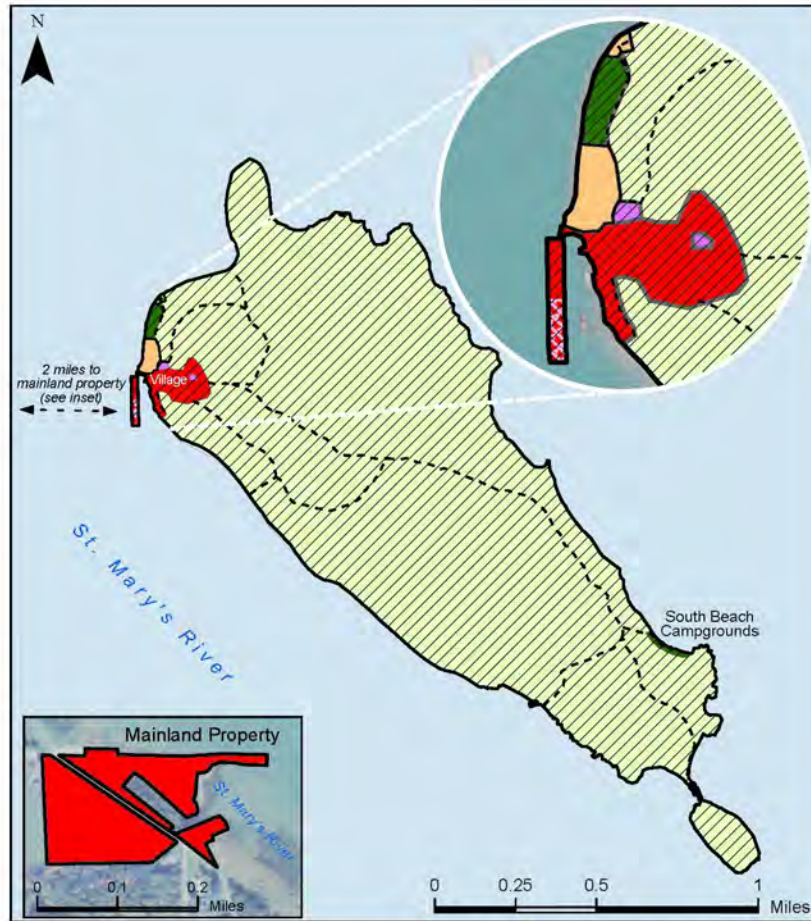
# Lime Island State Recreation Area General Management Plan



Michigan Department of Natural  
Resources, Parks and Recreation Division  
9/17/2020

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# Plan Approvals



## Lime Island State Recreation Area Management Zones

- |                          |                                  |   |
|--------------------------|----------------------------------|---|
| Park Boundary            | History Education Zone           | Cultural Landscape Overlay                |
| Designated Hiking Trails | Natural Resource Recreation Zone | Ecologically Sensitive Overlay (Seasonal) |
| Primitive Zone           | Developed Recreation Zone        |   |
| Cultural Landscape Zone  |                                  |   |



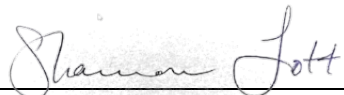
Updated 05/28/2019

The project was directed by Deborah Jensen, Management Plan Administrator,  
Michigan Department of Natural Resources,  
Parks and Recreation Division


Plan Approvals:

  
\_\_\_\_\_  
Chief, Parks and Recreation Division

8-28-2020  
Date

  
\_\_\_\_\_  
Natural Resources Deputy

8-28-2020  
Date

  
\_\_\_\_\_  
Director, Department of Natural Resources

9-17-2020  
Date

**LIME ISLAND STATE RECREATION AREA  
GENERAL MANAGEMENT PLAN  
PLAN APPROVAL RECOMMENDATIONS:**

PRD – SECTION CHIEFS:

Date: 10/28/2019

DNR – RESOURCE MANAGEMENT BUREAU:

Date: 11/13/2019

MSPAC – STEWARDSHIP SUBCOMMITTEE:

Date: 1/23/2020

NRC – MICHIGAN STATE PARKS ADVISORY COMMITTEE:

Date: 5/26/2020

# Resolution

## RESOLUTION NO. 02-2020-01

MICHIGAN STATE PARKS ADVISORY COMMITTEE (MSPAC)

### RESOLUTION TO RECOMMEND APPROVAL OF THE “LIME ISLAND STATE RECREATION AREA GENERAL MANAGEMENT PLAN”

**ADOPTED: May 26, 2020**

**WHEREAS**, the Michigan Department of Natural Resources’ (DNR) Parks and Recreation Division has completed the General Management Plan for Lime Island State Recreation Area; and

**WHEREAS**, the planning process reflects sensitivity to natural resource values, historic and cultural resource values, recreation and education opportunities, and is inclusive of all DNR programs and representative of eco-management; and

**WHEREAS**, the planning process was further inclusive of stakeholder, constituent, and public input; and

**WHEREAS**, the General Management Plan represents sound guidance for future planning phases that will be consistent with the mission of the DNR and the Parks and Recreation Division, and reflective of the purpose and significance of Lime Island State Recreation Area; and

**WHEREAS**, the General Management Plan is consistent with the recommendations of the Michigan State Parks and Outdoor Recreation Blue Ribbon Panel and the Parks and Recreation Division’s strategic plan; and

**WHEREAS**, the General Management Plan has been reviewed and recommended for approval by the Parks and Recreation Division and the MSPAC Stewardship Subcommittee.

**THEREFORE, BE IT RESOLVED**, that the Michigan State Parks Advisory Committee recommends approval of the Lime Island State Recreation Area General Management Plan; and

**THEREFORE, BE IT FURTHER RESOLVED** that the Michigan State Parks Advisory Committee further recommends that the DNR Director approve the General Management Plan for Lime Island State Recreation Area;

Submitted by: MSPAC Stewardship Subcommittee

<b>Yeas:</b>	<b>11</b>
<b>Nays:</b>	<b>0</b>
<b>Abstained:</b>	<b>0</b>
<b>Absent:</b>	<b>1</b>

*This Resolution was adopted by the Michigan State Parks Advisory Committee at their meeting on May 26, 2020 as Resolution No. 02-2020-01.*

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# Executive Summary

Lime Island State Recreation Area (SRA) encompasses over 938 acres, including the entire 932-acre Lime Island - located in the St. Mary's River off the eastern tip of Michigan's Upper Peninsula - plus about 6.5 acres on the mainland in the community of Raber, Chippewa County. Visitors to the island must charter or navigate a boat more than two miles across the St. Mary River. Lime Island's location has helped shape its rich history as an industrial complex and ship refueling depot. Structures that once supported the island's industrial use and past residents have largely been restored and re-purposed as a recreational boat dock and harbor of refuge, rental cabins, and administrative or interpretive buildings.

Lime Island, which came into state ownership in 1982, was initially managed by the Department of Natural Resources' (DNR) Forest, Mineral and Fire Management Division (now the Forest Resources Division), before becoming Michigan's 99<sup>th</sup> state park in 2011. Lime Island offers a rare blend of educational, historical and recreational opportunities. Visitors to the island can enjoy activities such as hiking, shore and boat fishing, swimming and hunting, along with visiting the historical sites and watching the large freighters pass by in the major shipping lane. Lime Island offers a boat dock, rustic cabins for lodging and tent camping on wooden platforms. The park is managed out of Brimley State Park to the north.



*Camping platform overlooking the harbor*

The purpose of this General Management Plan (GMP) is to guide the future long-term management of Lime Island State Recreation Area. Overall, the GMP seeks to uphold the Parks and Recreation Division's Mission Statement: *"to acquire, protect, and preserve the natural and cultural features of Michigan's unique resources, and to provide access to land and water based public recreation and educational opportunities."* The plan defines the following for the park:

- **Purpose and significance** that captures the unique identity of Lime Island State Recreation Area.
- **20-year Management Zone Plan** reflecting the resource protection goals and level of development appropriate for each area of the park.
- **10-year Action Goals** that address the desired future condition within the park as a whole, and each of the designated management zones.

The Parks and Recreation Division (PRD) of the DNR oversaw the planning process. The plan was developed with significant and valuable input from the planning team, which included representatives from all DNR resource divisions, the Michigan History Center and the State Archaeologist. The planning team in turn solicited input from stakeholders and the public. Furthermore, several existing planning

documents were used as guiding references, including the 2004 (rev. 2008) Master Plan for Lime Island. Other plans referenced include the Statewide Comprehensive Outdoor Recreation Plan, Michigan State Parks Outdoor Recreation Blue Ribbon Panel Report and the Managed Public Land Strategy. (See Chapter 1 for additional information on guiding references).

The Supporting Analysis, included as Appendix A of this document, provides significant background information to inform this planning initiative. It includes a comprehensive review of the park setting, area demographics, history, land ownership, legal mandates, and cultural, natural and recreation resources.

### **Significance of Lime Island State Recreation Area**

Each GMP developed by the PRD is built upon the property's significant features that make it distinct from other parks in the state's system. Following is a summary of the features that were determined significant for Lime Island State Recreation Area. The full statements of significance can be found in Chapter 3.

#### **Remote Island Park**

- Lime Island offers an isolated experience and a peaceful retreat for visitors.
- Difficult to access.
- Scenic views of the river, neighboring islands and the mainland.

#### **Diverse History**

- People have lived and worked on Lime Island for over 4,000 years.
- The people all left evidence of an incredibly diverse history on a relatively small island.
- Many local residents trace their family heritage to the island.

#### **Historical Industrial Landscape**

- Lime Island provides a significant representation of early 20<sup>th</sup>-century industrial and maritime history not found in other Michigan state parks.
- The schoolhouse, superintendent's house, cottages, and fruit trees remind visitors of island life for the workers that supported the refueling depot.

#### **Overnight Accommodation**

- Shoreline camping is available on wooden platforms overlooking the harbor or at the quieter south end of the island.
- Six cabins, built as houses for workers in the 1940s, have been adapted for rustic recreational use.
- Boaters may stay overnight in the harbor.

### **Lime Island Coal Dock and Harbor**

- The expansive Lime Island coal dock was constructed in 1910 as part of a refueling depot for coal powered ships.
- The dock is now a sheltered harbor of refuge, offering day/overnight mooring for recreational boaters.
- The wreck of the Rome, a 200-foot schooner that sank in 1909, lies within the harbor close to the surface.

### **Freighter Watching**

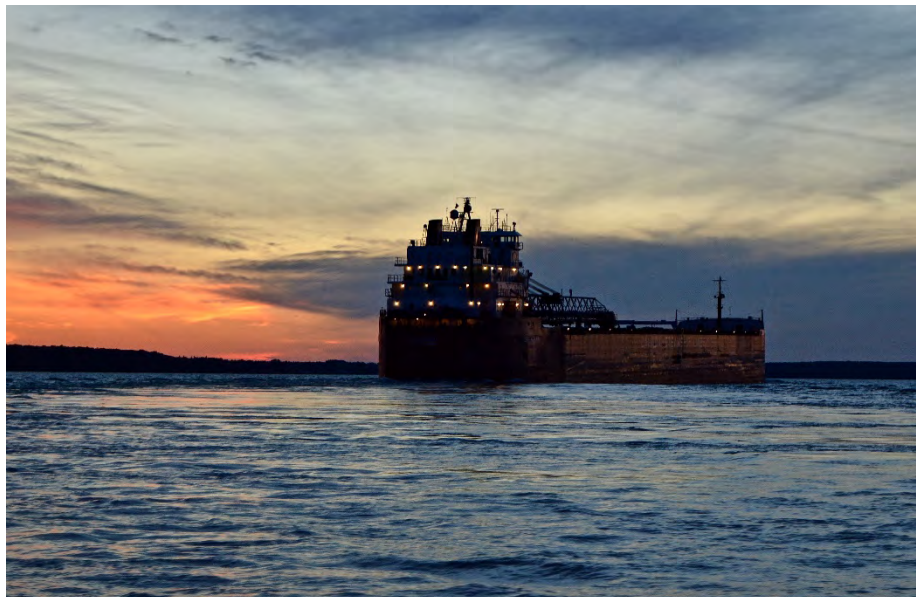
- Freighters traveling through the St. Mary's River pass close to Lime Island, allowing visitors to see, hear and feel the vibrations of the ships.
- For those staying overnight on the island, night-time viewing of the lighted ships is a popular pastime.

### **Common Terns**

- The coal dock provides nesting habitat for the state-threatened common tern (*Sterna hirundo*).
- The colony was once recognized as the largest known tern colony in the Great Lakes and in some years supports more than 200 nesting pairs.

### **Water-based Recreation**

- Boating is not only a means of getting to the island, but also for exploring Lime Island's coastline and secluded beaches.
- The St. Mary's River is a renowned fishing destination for walleye, northern pike, yellow perch, and muskellunge, as well as a seasonally popular cisco (lake herring) fishery.



*Experiencing the freighters as they pass the island is a favorite pastime for visitors*

## Management Zones

A key goal in the development of this General Management Plan is to continue to protect the park's natural and cultural resources, while providing access to recreation and education opportunities. The planning team, with stakeholder and public input, established appropriate management zones for the park. From a palette of nine standard zones, five zones and two overlay zones were applied to Lime Island State Recreation Area. The Management Zone Map and a thorough review of each management zone are found in Chapter 4 of this plan. A condensed description of each management zone is as follows:

### **Primitive Zone**

This zone is approximately 910 acres (96.8% of the park) covering the majority of the island. This area is dominated by boreal forest and limestone cobble shoreline. No development is proposed in this zone, which only permits foot traffic.

### **Natural Resource Recreation Zone**

The Natural Resource Recreation Zone applies to two small areas on the north and south end of the island, totaling approximately 4.3 acres (0.5%). This zone includes an area between the village and the lime kilns, and the southern campground. In this zone, more active recreation may take place, including rustic camping and a more developed trail system with supporting amenities.

### **History Education Zone**

This 0.75-acre zone designation applies to the area encompassing the superintendent's (Victorian) house and the schoolhouse. These historic buildings currently house period artifacts and have potential for improved education and interpretive opportunities. The emphasis in this zone is education, with the cultural resources protected and interpreted for visitor understanding.

### **Cultural Landscape Zone**

This zone encompasses the primary visible cultural resources of the island that are not included in the History Education Zone above, covering approximately 3.8 acres. It includes many of the buildings and structures associated with the island's industrial past, as well as the area encompassing the lime kilns. Cultural resource preservation is the focus of this zone, which could include adaptive re-use of the buildings for recreational or administrative functions as may be appropriate.

### **Developed Recreation Zone**

This 21.8-acre zone (2.3%) includes the remainder of the village area on the island and the 6.5-acre mainland portion of the recreation area. The island buildings in this zone have been re-adapted for visitor and park host accommodation. Active recreation with a high density of use is typical of the Developed Recreation Zone.

### **Cultural Landscape Overlay**

The entire Lime Island, except for areas designated as a base Cultural Landscape Zone, falls within this zone designation in recognition of the historic and prehistoric sites that have been identified and the likelihood of other sites yet to be discovered.

### **Seasonal Ecologically Sensitive Overlay**

This designation protects the nesting habitat for the state-threatened common tern on the southern end of the island's dock. Public access to this one-acre area is restricted seasonally to protect the birds during breeding season.

### **10-Year Action Goals**

Once the planning team established management zones to guide Lime Island SRA for the next twenty years, a series of action goals were identified that the planning team believes are necessary in order to achieve the desired user experience and level of resource protection. Action goals are considered for each of six key considerations: natural resources, historic and cultural resources, recreation opportunities, education and interpretation opportunities, management and development.

The action goals are broken down into categories pertaining either to park management and operations, large infrastructure and development projects requiring capital outlay, and small infrastructure and development projects. Below is a summary of the 10-year action goals developed for the recreation area. The full list can be found in Chapter 5 of this plan and a guide to implementation in Chapter 6.

#### **Management and Operations**

Action goals focus on evaluation and planning for environmental, natural resource and cultural resource issues, including a complete cultural resource management plan for the industrial complex. Other recommendations include an increase in staffing, analysis of water transportation options to get visitors to the island, coordination of information available to visitors regarding access and safety, and completion of an inventory of island artifacts.

#### **Infrastructure and Development (Capital Outlay)**

One major development currently in the planning stages is improvements to the island dock to better accommodate park visitors. Other action goals include stabilization of the historic lime kilns, evaluations and resource management plans for the historic buildings and industrial complex, replacement of the solar power distribution system on the island, development and implementation of an interpretive plan, and improvements to the boat basin and, in the long-term, development of a rustic campground or other overnight accommodation on the mainland.

#### **Infrastructure and Development (Small Projects)**

Proposed small projects primarily relate to providing adequate information for park users, such as updating park maps, signage and trail markers, and water trail and water safety information.

# 1. Core Values & Guiding References

Throughout the planning process, the core values of the Department of Natural Resources (DNR) were the foundation of the planning team's decisions. These include the mission statement of the DNR, the five goals of the DNR, and the DNR Parks & Recreation Division (PRD) mission statement. These values set the protection of natural and cultural resources and the provision of recreational and educational opportunities at the forefront of the plan.

## 1.1 Mission Statements and Goals

### **DNR Mission Statement**

The Michigan Department of Natural Resources is committed to the conservation, protection, management, use and enjoyment of the state's natural and cultural resources for current and future generations.

### **DNR Evergreen Goals**

- **Protect** natural and cultural resources
- **Ensure** sustainable recreation use and enjoyment
- **Enable** strong natural resource-based economies
- **Foster** effective business practices and good governance
- **Improve** and build strong relationships and partnerships, internally and externally

### **PRD Mission Statement**

The Parks and Recreation Division's mission is to acquire, protect, and preserve the natural and cultural features of Michigan's unique resources, and to provide access to land and water based public recreation and educational opportunities.



*Historic lime kilns that gave the island its current name*



## 1.2 Guiding References

The general management planning process is guided and shaped by several resources developed to provide recommendations for managing Michigan’s parks and recreation system. The following resources helped shape the 10-Year Action Goals established in this plan.

### **Michigan State Parks & Outdoor Recreation Blue Ribbon Panel Report (2012)**

The Blue Ribbon Panel’s report on outdoor recreation identifies a number of recommendations for system-wide changes to programs, management, infrastructure type, and investment strategies that set up the visionary framework for the next 30-50 years of park and outdoor recreation management in Michigan. Recommendations from the report include:

- Identify and protect important natural, cultural, historic, and prehistoric resources
- Diversify funding
- Prioritize development of statewide and regional systems of connected trail networks
- Encourage greater connections between communities and their recreational assets to strengthen regional identities
- Integrate tourism and economic development marketing
- Prioritize investment in parks and recreation



### **Michigan Statewide Comprehensive Outdoor Recreation Plan (SCORP) (2018-2022)**

SCORP is a five-year strategic plan that shapes investment by the state and local communities in priority outdoor recreation infrastructure and programming. The Plan’s overarching goal is to “Protect and manage Michigan’s diverse and abundant natural and cultural assets to provide relevant, quality experiences that meet the fun, relaxation, and health needs of Michigan’s residents and visitors, and support economic prosperity” by meeting the following objectives:

- Foster stewardship and conservation
- Improve collaboration
- Raise awareness
- Improve recreational access
- Provide quality experiences
- Enhance health benefits
- Enhance prosperity

### **Michigan Comprehensive Trail Plan (2013 - 2018)**

The Trail Plan, developed by an 11-member committee appointed by the Governor, includes eight priority recommendations with associated key actions that should be implemented to assist in achieving the vision of establishing a high quality, nationally recognized, state-wide trail system.



The eight recommendations are as follows:

- Trails are maintained to ensure a sustainable and quality trail system
- Expand trails and trail experiences and opportunities to ensure accessibility to trail systems, outdoor recreation opportunities and natural and cultural resources
- The Michigan Snowmobile and Trails Advisory Council leads the effort to maintain and enhance Michigan’s reputation as the trail state
- Link trails, trail users and adjoining towns to create memorable trail experiences and enhance economic prosperity
- Develop, enhance and celebrate partnerships and collaborations
- Implement a marketing plan including an electronic portal that allows citizens and visitors to be aware of all trails and related amenities
- Develop funding sources and mechanisms for trail maintenance, acquisition and development
- Ensure that the state’s trail system compliments other plans and planning efforts

### **Managed Public Land Strategy (2013)**

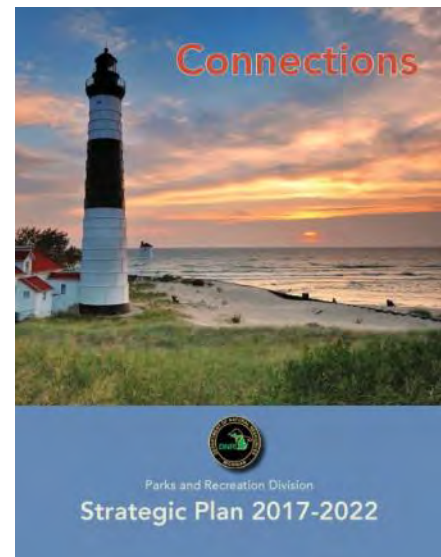
The DNR-Managed Public Land Strategy provides a framework for the continued conservation, use and management of public lands to provide an enhanced quality of life for Michigan residents, create jobs and protect the essence of Michigan, its woods, waters, wildlife and other natural and cultural assets. The Strategy identifies three broad goals with desired outcomes, metrics, and measurable objectives identified for each goal. These goals are to:

- Provide quality outdoor public recreation opportunities
- Foster regional economic prosperity
- Protect natural and cultural resources for future generations

### **PRD Strategic Plan 2017-2022: Connections**

The PRD Strategic Plan is the overarching document that guides the Parks and Recreation Division in carrying out its mission. This plan establishes long-range goals, objectives, and strategies for Michigan’s state parks and recreation system for the 5-year period beginning in 2017. The plan identifies the most important issues facing the PRD and helps to define where resources should be focused for maximum benefit to carry the state park and recreation system beyond its centennial milestone in 2019. The goals identified in the plan are:

- Be exemplary stewards of Michigan’s natural and cultural resources.
- Provide users with quality outdoor recreation experiences in balance with resource protection.
- Continue to advance Michigan as the “Trail State.”



- Provide a relevant gateway to connect people to nature and Michigan’s cultural heritage, and foster understanding and support for PRD’s mission among future generations.
- Improve and maintain strong public, stakeholder and department communication, relationships and partnerships.
- Engage in strategies to increase community and state economic prosperity.
- Sustainably support PRD programs, operations and facilities.
- Foster and adopt effective and safe business practices.

### 1.3 Summary of Legal Mandates

For all park general management plans, legal mandates are identified that serve to further guide the development of the plan, park management and park operations. For our planning purposes, the term “Legal Mandates” refers to not only state law, but also the administrative tools of “Policy” and “Directive” of the Natural Resource Commission, the Department, and the Parks & Recreation Division. There are several general and site-specific legal mandates applicable to Lime Island State Recreation Area listed in Appendix A: Supporting Analysis.

The legal mandates that most directly impact planning and management at Lime Island State Recreation Area focus on the following areas:

- Identification of the duties of the DNR in reinforcing its core values concerning preservation, protection and management.
- Protection of threatened and endangered species
- Preservation of cultural or historic resources
- Environmental remediation
- Hunting or trapping in state recreation areas
- Requirement for a Recreation Passport for vehicular entry into the park



*State-threatened common terns nest seasonally on the dock*

# 2. Plan Process Overview

## 2.1 Planning Objectives

Park planning is not a new concept. The Department of Natural Resources (DNR) has developed master plans in the past for many of Michigan's state parks. Most of these plans are now 20-40 years old and do not reflect today's realities or desires of recreational users. Furthermore, past plans put a strong emphasis on development and did not often include stewardship of natural and cultural features or opportunities for education and interpretation.

Lime Island State Recreation Area (SRA) was acquired by the DNR in 1982 from Consolidated Coal Company. The island was managed initially by the Forest, Mineral and Fire Management Division (now Forest Resources Division). Masterplans were created in 1997 and 2004 (revised in 2008), although neither were fully implemented due to lack of funding. In 2011, management was transferred to the Parks and Recreation Division (PRD). This is the first comprehensive planning initiative undertaken since the Lime Island SRA became Michigan's 99<sup>th</sup> state park in 2011. For the purposes of this plan the terms "park" and "recreation area" are synonymous.

General management planning sets out a framework for protecting park resources while providing for meaningful visitor experiences. The long-range vision and management objectives for the park are derived from applicable legal directives, the purpose of the park, and the park's significant natural and cultural resources.

The objective of the General Management Plan (GMP) is to bring together PRD staff, staff from other DNR divisions, stakeholders, and the public into a planning process that defines and clarifies the unique "Purpose and Significance" of Lime Island State Recreation Area. Collectively, those attributes will be reinforced in the planning and management decisions that impact the park through the implementation of the Management Zone Plan and Action Goals.

A GMP develops as a result of a series of planning steps. Each step builds upon the previous, and action decisions focus on the mission of PRD and the specific **Purpose and Significance** of the park. The GMP is a long-term plan, presenting a **20-Year Management Zone Plan** used to guide park planning decisions and a **10-Year Action Goals Plan** that establishes specific action strategies within each management zone. The **Implementation Strategy** provides guidance for implementing the action goals, tracking progress and maintaining the plan so that it remains relevant in the long-term and aligns with statewide planning documents, initiatives and funding processes.

## 2.2 Planning Process

The planning process for the General Management Plan for Lime Island SRA began in August 2018. The project planning team met periodically over a 13-month period to develop the GMP.

The DNR sought extensive stakeholder and public input throughout the planning process to ensure the plan was in line with park users' needs and desires.

- A public-facing website was maintained throughout the duration of the project. This website was updated with general information about the park and park maps, results of the public input survey, and the draft of the GMP. The website included contact information so that the public could contact the planning team at any time with questions, concerns, and input.
- A stakeholder input workshop was held on October 18, 2018, at the De Tour Village Hall. Over 40 representatives of area businesses, federal, state and local governments, non-profit organizations, and recreation groups were invited to the meeting. Participants were asked to identify Strengths, Weaknesses, Opportunities and Threats relating to Lime Island SRA. This gave the planning team a baseline of information from which to begin drafting the plan.
- An online survey was also developed to solicit input from the public on their use of the park and future desires. This online approach provides a convenient way for those who have access to the internet to provide feedback and accurately transfers all responses for analysis. However, it is not designed to be scientifically representative of park use or users, as respondents self-select.
- The planning team reached out to tribal governments in the region with a letter notifying them of the GMP process and timeline and inviting them to meet with the DNR to discuss the park or the planning process.
- A final public meeting was held on July 25, 2019 to present the draft plan for public comment. The draft plan was also made available for review on the department's website, and the public was invited to email, call or mail questions or comments concerning this initiative. Twenty people attended the meeting and five email comments were received. The planning team reviewed the input received and minor changes to the plan were made, including adding an action goal for cabin renovation.

Full reports for each of the outreach methods described above are included in Appendix B of this plan.

### 2.3 Planning Team

The Lime Island State Recreation Area GMP would not exist without the valuable input and expertise provided by all members of the planning team.

DNR Staff		
Division	Title	Name
Parks and Recreation	Management Plan Administrator	Debbie Jensen
Parks and Recreation	Planning Analyst/Lands Specialist	Matt Lincoln
Parks and Recreation	Unit Supervisor	Cory Butcher
Parks and Recreation	District Supervisor	Eric Cowing
Parks and Recreation	Regional Field Planner	Keith Cheli
Parks and Recreation	Stewardship Unit Manager	Ray Fahlsing
Parks and Recreation	Cultural Resource Analyst	Lisa Gamero
Parks and Recreation	Planning Student Assistant	Sarah Burton/ Melanie Kroll
Parks and Recreation	Trail Specialist	Paul Gaberdiel
Michigan State Housing Development Authority	State Archaeologist	Dean Anderson (retired)/ Stacy Tchorzynski
Michigan History Center	Museum Director	Suzanne Fischer
Office of Minerals Management	Geologist	Peter Rose
Marketing and Outreach	Park Interpreter	Theresa Neal
Law Enforcement	Conservation Officer	Calvin Smith
Forest Resources	Forester	Jeff Wise
Fisheries	Fisheries Biologist	Neal Godby
Wildlife	Wildlife Biologist	David Jentoft



*Planning team members travelling to the island*

## 2.4 Summary of Public Input Survey

Rich in history, Lime Island State Recreation Area draws generations of visitors, returning year after year to explore the island’s industrial past, visit the lime kilns, and to fish, camp, and hike. Recognizing the significance of the island to both local and regional visitors, the DNR sought public input through a variety of channels during the preparation of this management plan. One method utilized was an online survey. Survey participants were solicited via a statewide news bulletin and targeted emails to those who had expressed an interest in camping or boating in Chippewa County and those that had registered to stay in the island’s cabins or at campsites within the last two years. From these outreach methods, there were 226 total respondents to the survey, although each question typically received 100 to 200 responses. The survey was available from October 8 through October 31, 2019. The results of this survey may not be statistically representative of Lime Island State Recreation Area users or uses, as respondents self-select. A copy of the full survey responses may be found in Appendix B.

The survey was broken down into several categories to gather targeted input:

CATEGORY	INPUT RECEIVED
Your Visit	General information about how frequently users visit, how they travel to the park, their party size and age, other attractions visited in the area, and activities participated in during the visit
Overnight Accommodations	Whether the overnight accommodations meet the needs of users, how long they stay, and what improvements could be made
Fishing	Preferred fishing location and method, targeted fish species, and any other comments about fishing at Lime Island SRA
Hunting/Trapping	Targeted species for trapping and hunting, and any other comments about hunting at Lime Island SRA
Overall Satisfaction	A rating of overall satisfaction with a recent visit and an explanation, how users describe the park, what changes could be made, and any other comments about Lime Island SRA or the plan process
Future Improvements	An opportunity for input on areas for improvement that will enhance user experiences overall and comment on future use
Tell Us About Yourself	Demographic data



What three words would you use to describe Lime Island to someone that has never visited?



*Figure 1 (Q29). Respondents were asked to share three words they would use to describe Lime Island to someone who has never visited the island before. These responses were turned into a word cloud; larger words indicate more common responses.*

### Your Visit

Many respondents described the island with an air of nostalgia. Citing its significance to their family, they reminisced on growing up on the island, visiting it as children, or they remembered grandparents living and working on the island when the refueling depot was still in operation.

Perhaps due in part to the island’s role in familial heritage and traditions, we see a relatively high rate of return visitors; over 33% of participants reported visiting Lime Island more than 10 times. Additionally, 13% of respondents visited the island 6-10 times, and 24% visited 2-5 times. Most of the visitors, according to the survey data, were between 50 and 64 years-old and visited the site with family or a combination of family and friends.

Most visitors access the island using their own motorized boat or a family member’s or friends’ motorized boat. Popular launch sites included Raber Township boat launch (51%), De Tour State Harbor (14%), personal private docks (13%). A handful of visitors reported using a charter boat or ferry but described the difficulty of finding reliable information. Nearly 20% of survey respondents reported having never visited Lime Island. The two most common reasons for this were lack of accessibility (due to no reliable

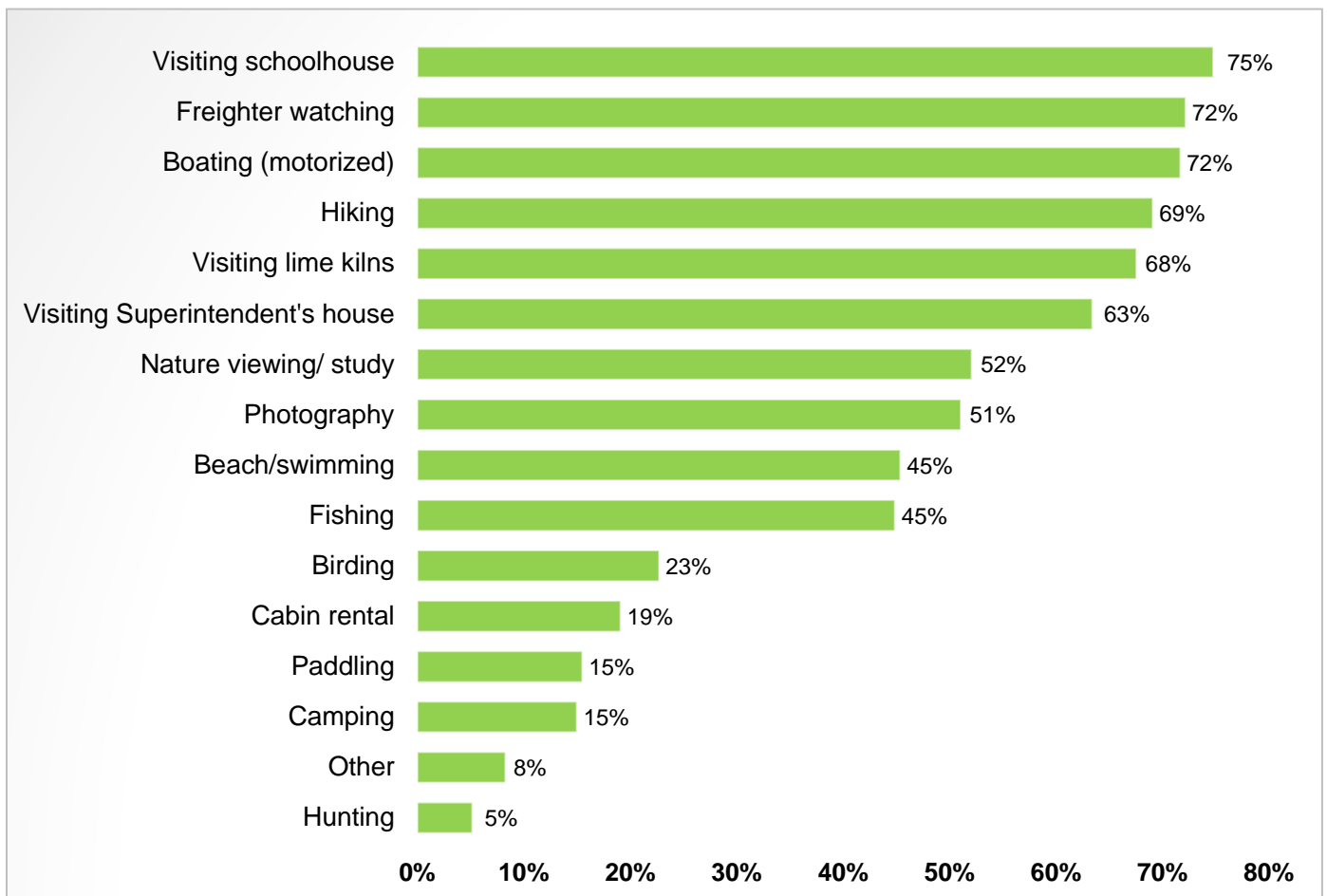


charter ferry options) and lack of knowledge (either of the island’s existence or of its status as a state recreation area open to the public).

Visitors were asked what other sites and attractions in the eastern U.P. they visit when visiting Lime Island. The most common answers were Drummond Island, DeTour Village, Raber, Sault Sainte Marie, and the Soo Locks. When asked about their primary reason for visiting, many respondents discussed their family ties to the Lime Island and their appreciation of its isolation, peacefulness, and beauty.

The planning team was interested in knowing what visitors like to do while at Lime Island State Recreation Area. The most common activities revolved around exploring the historical sites and structures on the island, such as the old schoolhouse and the lime kilns. Other popular activities included freighter watching, boating and hiking.

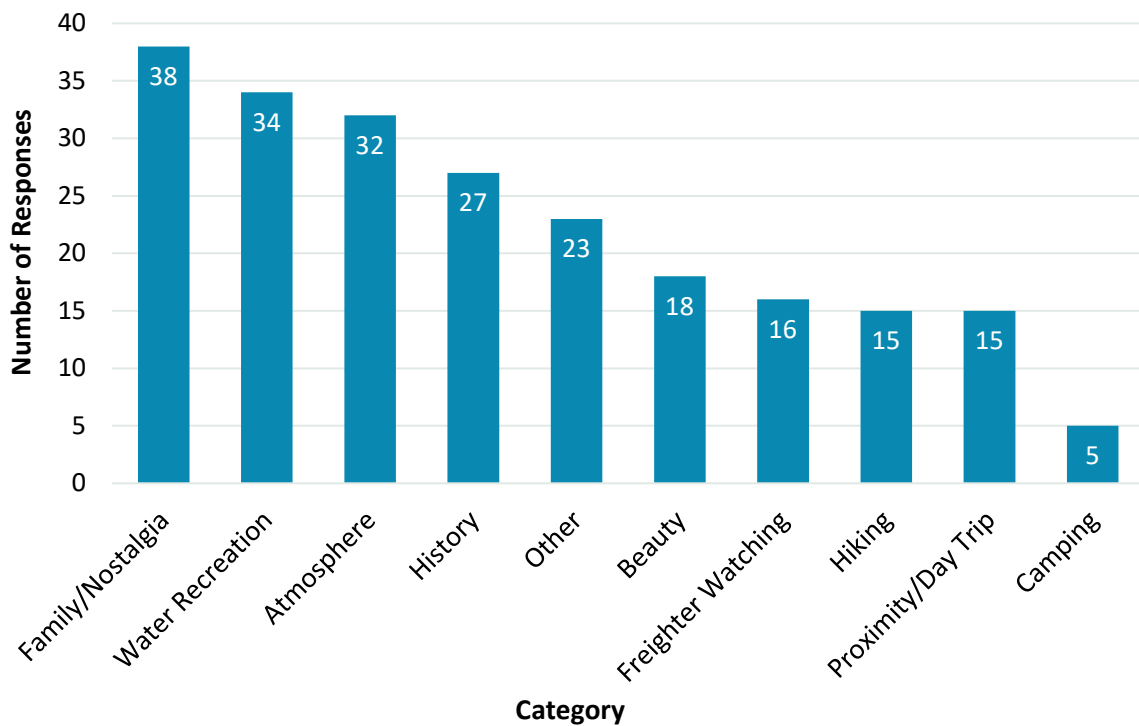
### Please check ALL of the activities you have participated in on Lime Island



**Figure 2 (Q7):** Survey participants were asked to indicate all of the activities they have participated in on Lime Island, selecting any number of responses

When asked for the **primary** reason for visiting via an open-ended response, the most popular reasons given related to family ties to the island’s history, and water recreation, including boating, fishing and swimming. Many respondents stated that the island’s appeal came from its peaceful, remote and unique atmosphere.

### What is the PRIMARY reason you choose to visit Lime Island?

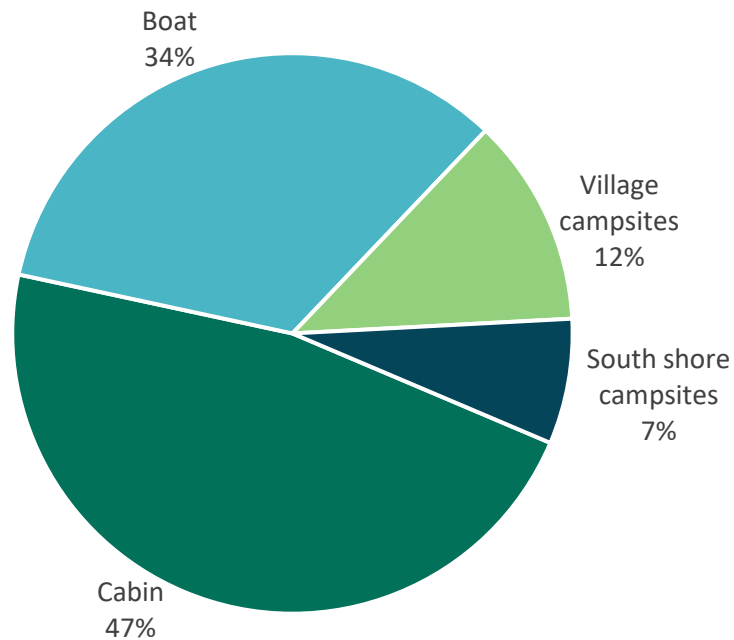


**Figure 3 (Q8).** Responses were categorized based on recurring themes as depicted above. Many respondents cited multiple reasons for visiting Lime Island. Responses which did not clearly fit any of the above categories were listed as “Other”.

### Overnight Accommodations

Of the survey respondents, 83 reported spending the night on Lime Island. Within this group, 19% camped on the island, with village campsites more popular than those on the south shore. Spending the night in boats or the cabins were the most popular choices. The majority (55%) of respondents stayed two or three nights and 27% stayed only one night. Very few visitors spent a full week or more on the island. Visitors who did not use the island's overnight accommodation primarily stayed in their own home (principle or secondary) in the region. Very few respondents reported staying at a hotel, another campground or rental property. This likely reflects the difficulty in getting to the island for those without their own boat or unfamiliar with the area.

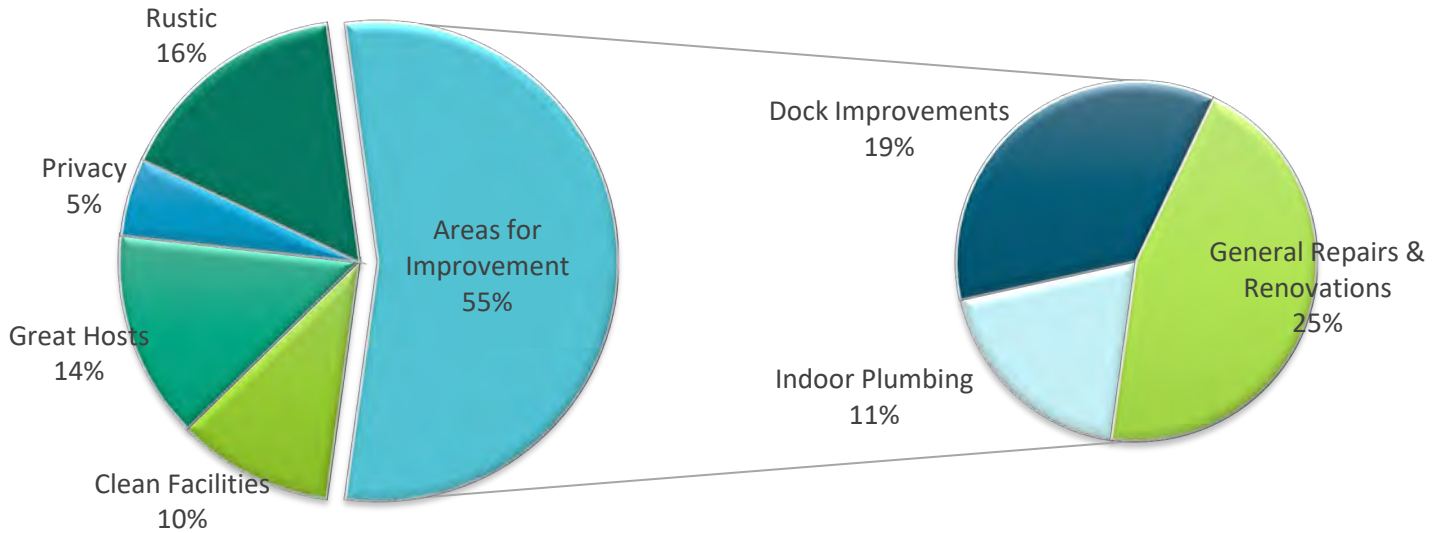
### **When you stay overnight on the island where do you typically stay?**



**Figure 4 (Q11).** Overnight stay preferences of 83 survey participants.

Overall visitors appear to be moderately satisfied with overnight facilities with an average ranking of 6.9 on a scale of 1 (highly dissatisfied) to 9 (highly satisfied). Just ten survey participants ranked the overnight facilities less than satisfactory. Some felt improvements were needed such as maintenance, repairs, and general modernization of bathrooms and docks. However, many visitors described the facilities as clean and appreciated the privacy and rustic feel that Lime Island provides. A special highlight for some respondents were the island hosts, who they described as very friendly, welcoming, and accommodating, ensuring visitors felt comfortable during their stay.

## Lime Island Overnight Accommodation - PRIMARY reason for rating



**Figure 5 (Q14).** Visitors were asked to rate their satisfaction with the overnight facilities at Lime Island and to explain the reason for their rating. The most common themes are depicted in the figure above.

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### Fishing

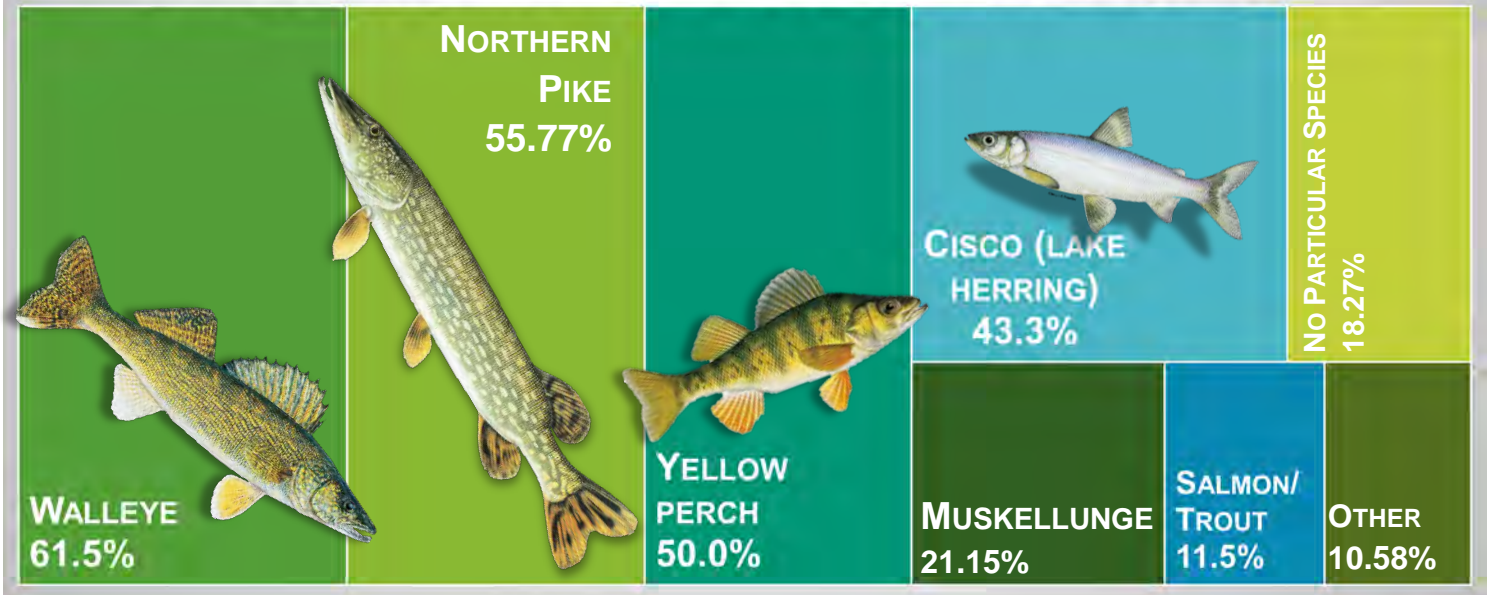
Over half of the respondents (52%) reported fishing at Lime Island State Recreation Area. Fishing is most popular during summer months (June, July, August) and respondents typically fish from motorized boats (85%). Visitors also fish from the state dock on the mainland (36%) or docks on Lime Island (36%), as well as from the shoreline or non-motorized boats. Visitors often fished for more than one species, with walleye (61%), northern pike (53%), yellow perch (50%) and cisco (lake herring) (46%) the most popular target species among survey participants. Some respondents commented that there appears to have been a shortage of certain fish species in recent years and the overall yield on trips is comparatively small. However, the area is still a prime location, beloved for its variety and beginner-friendly fishing opportunities.

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*“It is a good way to get out on the water early morning and later evening. Great way to introduce friends and kids to the St. Mary’s and Lime Island”.*

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## WHAT DO YOU FISH FOR AT LIME ISLAND STATE RECREATION AREA?



**Figure 6 (Q19).** Infographic depicting the most popular target species. Larger boxes indicate more popular fish. Many visitors report fishing for more than one target species. Illustrations by Joseph R. Tomelleri ©

### Hunting

Only 11 respondents reported using the island for hunting or trapping. Target species include birds (both upland birds and waterfowl), white-tailed deer and small game.

### Overall Satisfaction

When asked to rate their satisfaction with their most recent visit to Lime Island SRA, survey participants reported moderate satisfaction with a mean rating of 7.18 (Table 1). Ratings were given on a scale of 1-9, with 1 being highly dissatisfied, 5 being neutral, and 9 being highly satisfied. Approximately 80% of 174 respondents rated 6 or higher, suggesting an overall positive outlook and experience. Over one third of participants gave their visit the highest satisfaction rating (9).

*“Weather permitting, Lime Island is a great place to get away from crowded hunting conditions...”*

RATING SCALE	VISITORS (%)
1	1.72%
2	4.02%
3	3.45%
4	2.87%
5	7.47%
6	6.32%
7	18.39%
8	18.97%
9	36.78%
<b>Total</b>	<b>100%</b>
<b>Mean Rating</b>	<b>7.18</b>

**Table 1 (Q26).** Rating of Lime Island SRA experience by survey participants. Scale 1 (highly dissatisfied) to 9 (highly satisfied).

When asked an open-ended question to explain the reason for their rating, respondents discussed positives such as the island’s remoteness and seclusion, its unique history, and beautiful landscape. Throughout the survey, visitors indicated that they appreciate its rustic feel and the variety of hiking, lodging, fishing, and boating opportunities it provides. Many respondents would like to see the lime kilns and village buildings preserved and maintained so that visitors may still explore them in years to come. The most common critiques associated with lower satisfaction ratings regarded general maintenance issues such as the condition of the docks, schoolhouse, cabins, and bathroom facilities.

### Future Improvements

Common themes arose throughout several survey sections regarding a need for the restoration of historical structures, such as the schoolhouse, as well as maintenance and improvements to bathroom and dock facilities. While some users did not mind “rustic” bathrooms, others commented that they would like to see modern or upgraded bathrooms at various locations. Additionally, survey participants reported that difficulty reaching the island was a primary barrier to visiting.

The planning team was interested in seeing if a fee-based ferry or charter boat to and from Lime Island would be utilized and whether this was a priority to visitors. Participants rated their likelihood of using the ferry from “Very Likely” to “Very Unlikely”. Slightly more reported that they would be “Very Likely” or “Likely” (~45%) to use a fee-based service than “Very Unlikely” or “Unlikely” (~38%). About 17% of survey participants stated it would be “neither likely or unlikely” that they would use a ferry service. There is a possible selection bias in this data as survey participants were primarily composed of individuals who have visited the island regularly, suggesting that they themselves own a boat or have family and friends with access to one. With this in mind, a fee-based ferry or charter boat may be utilized more than has been indicated in survey responses.

---

*“The whole reason I am answering this survey is in the hopes a ferry would return. It was fun to ride the ferry to go to school when I was a kid and it’s a nostalgia I would love to share with my kids and grandkids now”.*

*“We like stopping when there is very few people there. That is the major draw for us. If there were a ferry or charter boat we would lose the uniqueness of the island. Against easy access”.*

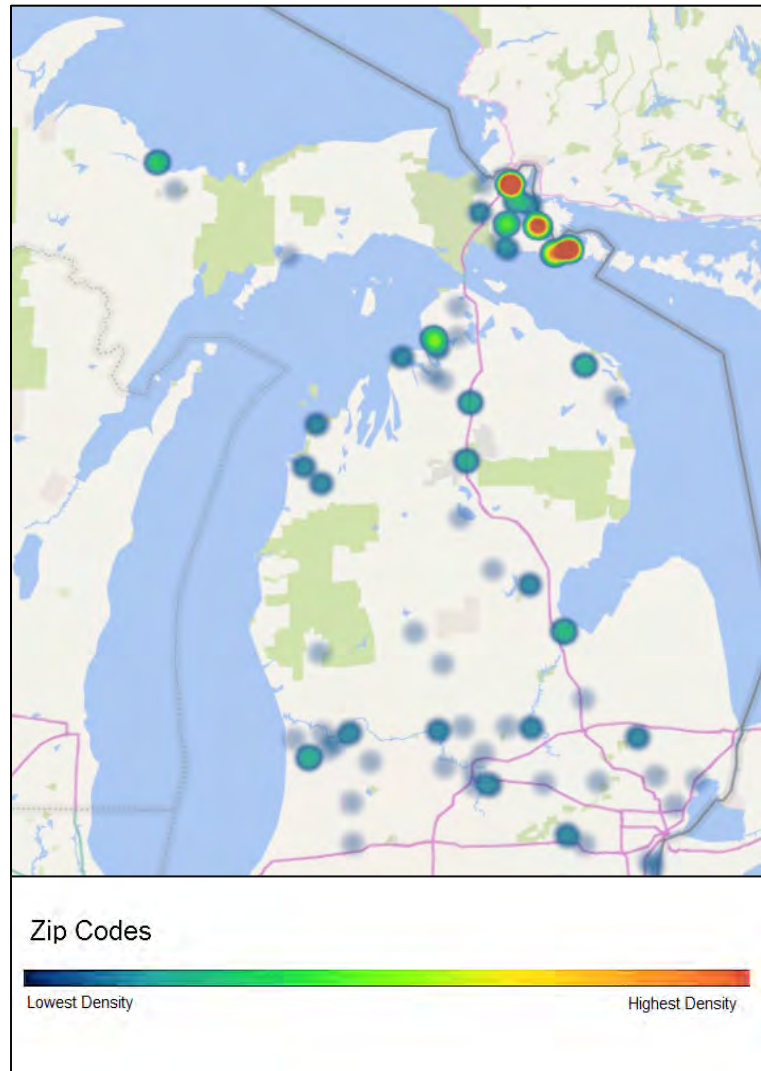
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Additional improvement requests included poison ivy control, oil tank removal, trail maintenance, and promoting awareness of the island as a historical site with a range of educational and recreational opportunities. Some survey participants stated that they do not believe any improvements should be done to the island; they would like it to be left as it is. Many respondents noted that the attraction of Lime Island SRA is due to its low traffic. Some expressed concern that large improvement projects would negatively impact the atmosphere of the island and that increasing accessibility (and therefore the number of visitors) could be detrimental to user experience.

Survey participants were asked what facilities they would be most likely to use on the six acres of mainland the DNR recently purchased in Raber. Respondents ranked three different options from “Very likely” to use to “Very unlikely” to use, resulting in a weighted average score. The following are listed from most popular to least popular option: improved boat basin/dock/boat slips (4.09 weighted average), semi-modern campground (3.05), and rustic campground (2.75).

#### Tell Us About Yourself

Survey respondents were primarily 50 years and older (60%) and lived in the eastern U.P. near the Lime Island region or in the northern Lower Peninsula. However, the map opposite shows that the island also has a wider draw with visitors from across the state and a few from out of state and Canada (not shown on the map).

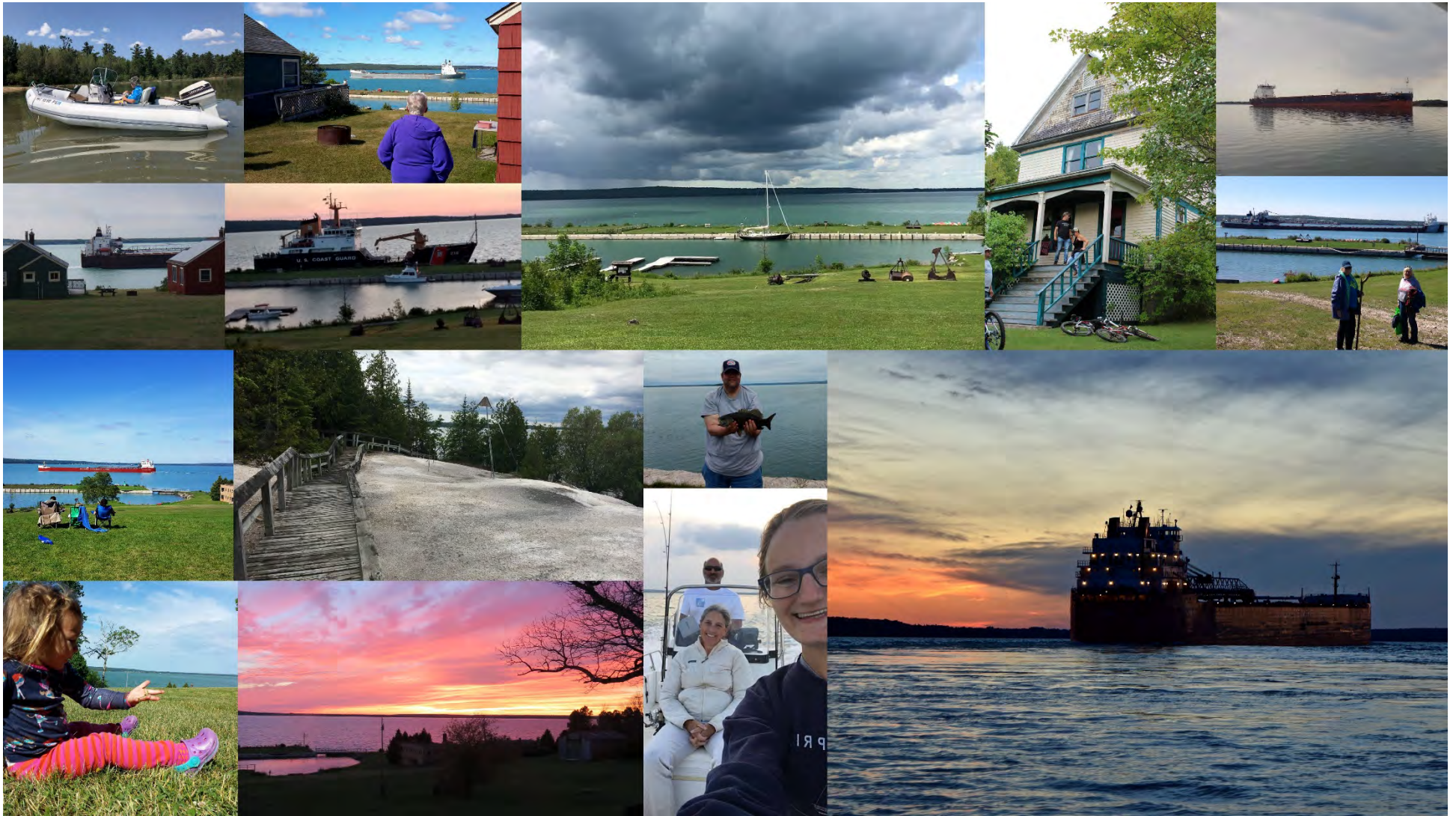


**Figure 7 (Q32).** Map showing the zip code of respondents' primary residence

#### Share a picture

Finally, visitors to Lime Island SRA were asked to share a photo of their visit. A selection of the photos received are shown on the following page.





*Park visitors' photographs shared through the on-line survey*

# 3. Purpose & Significance

There are over 100 parks in Michigan's state park system and each park has its own unique and defining characteristics. This chapter describes what makes Lime Island State Recreation Area (SRA) a significant asset to the state's park system.

## 3.1 Park Purpose

Park purpose statements are based on park legislation, legislative history, special designations and Department of Natural Resources (DNR) policies. These statements reaffirm the reasons for which Lime Island SRA was identified as part of the state's recreation system.

The DNR accepted the gift of Lime Island in 1982 under authority of Sec. 3, Act 17, P.A. 1921, as amended. The land was initially dedicated as part of the Lake Superior State Forest for the purpose of<sup>1</sup>:

- Expanding public recreation opportunities in the Lake Superior State Forest
- Complementing the application submitted by the DNR to acquire about 700 islands surplus to the needs of the Bureau of Land Management

In 2011, the land was transferred to the Parks and Recreation Division and designated as Lime Island State Recreation Area under the Natural Resources and Environmental Protection Act, 1994 P.A.451, as amended. The purpose of the state park and recreation system is to:

- Preserve and protect the state's historic/cultural resources
- Preserve and protect the state's natural resources
- Provide access to land- and water-based recreation and education opportunities

## 3.2 Statements of Significance

Park significance statements capture the essence of the park's importance and the features that make it distinct from other parks in the state's recreation system. Understanding the park's significance helps managers make decisions that preserve those resources and values necessary to accomplish the park's purpose. Lime Island SRA was determined significant due to the following:

### **Remote Island Park**

Lime Island offers an isolated experience and a peaceful retreat for visitors. Located just over two miles off the eastern shore of the mainland of the Upper Peninsula in the St. Mary's River, the island is difficult to access and therefore sees a relatively low level of use and results in management challenges for staff. Seven miles of foot trails allow for remote exploration and wildlife viewing, while the shoreline and hill in the former village area provide scenic views of the river, neighboring islands and the mainland.

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<sup>1</sup> 1982.12 – NRC Meeting Proceedings – December 2-3, 1982, page 52



### **Diverse History**

People have lived and worked on Lime Island for over 4,000 years. Native Americans, voyageurs, workers at the lime kilns, farmers, business owners and guests at the St. Mary's Club resort, and workers who refueled lake freighters—they all left evidence of this incredibly diverse history on a relatively small island. Many local residents trace their family heritage to the island.

### **Historical Industrial Landscape**

Lime Island provides a significant representation of early 20<sup>th</sup>-century industrial and maritime history not found in other Michigan state parks. The coal dock, fuel storage tanks, Quonset hut with bunker fuel heating and pumping equipment, other supporting buildings, and scattered industrial equipment, provide a complete picture of the island's use as a ship refueling depot. The schoolhouse, superintendent's house (that was brought to the island by dragging it across the frozen river), cottages and fruit trees remind visitors of island life for the workers that supported the depot.

### **Overnight Accommodation**

Lime Island offers different overnight experiences for those wishing to stay on the island. Shoreline camping is available on wooden platforms overlooking the harbor or at the quieter south end of the island, and a group campground near the village area may be reserved by organized groups. Six cabins, built as houses for workers in the 1940s, have been adapted for rustic recreational use. In addition, boaters may stay overnight in the harbor.

### **Lime Island Coal Dock and Harbor**

The expansive Lime Island coal dock was constructed in 1910 as part of a refueling depot for coal powered ships. It has endured through the years as vessels transitioned to fuel oil and to its present-day use as a sheltered harbor of refuge and for day/overnight mooring for recreational boaters. The wreck of the Rome, a 200-foot schooner that sank in 1909, lies within the harbor close to the surface.



*Lime island dock and harbor, 1970*

### **Freighter Watching**

Freighters traveling through the St. Mary's River between Lake Huron and Lake Superior (via the Soo Locks) pass close to Lime Island, allowing visitors to see, hear, and feel the vibrations of the ships. For those staying overnight on the island, night-time viewing of the lighted ships is a popular pastime.

### **Common Terns**

The coal dock provides nesting habitat for the state-threatened common tern (*Sterna hirundo*) and access to the southern portion of the dock is restricted seasonally to protect the birds during the breeding season. The colony was once recognized as the largest known tern colony in the Great Lakes and in some years supports more than 200 nesting pairs.

### **Water-based Recreation**

Boating is not only a means of getting to the island, but also for exploring Lime Island's coastline and secluded beaches. Paddling, swimming, and fishing from boat, shoreline, or from the dock on the island or the mainland, are all popular recreation pursuits. The St. Mary's River is a renowned fishing destination for walleye, northern pike, yellow perch, and muskellunge, as well as a seasonally popular cisco (lake herring) fishery.

### **3.3 Public Affirmation of Lime Island's Significance**

Stakeholder and public input assisted the planning team with affirming the significant features and opportunities at Lime Island State Recreation Area. The feedback from the online survey confirmed that the island's history, natural features, recreation opportunities and scenery are key aspects of the park. Select comments from survey respondents relating to those significant features are provided below.

*"I have been fishing and hunting on Lime Island for 30 years and hope it will remain wild and a place of solitude for my grandchildren".*

*"There is such historic value to the Island. There are many families connected to Lime Island and it should have an Historical marker!"*

*"Very unique, a wonderful destination for boating, historical value"*

*"I have visited lime island for 50 years ..... I have (been) to all most every part of the island, the kilns are very important to me my grandfather worked at them in the 1870s."*

*"Our great grandfather Newton was 1st superintendent, our parents met there, our grandfather Oberle retired from Lime Island & as children we have many happy memories of days spent on the Island"*

*"An island getaway that is rustic and not overused. The history, nature, and natural features are all attractions."*

*"The island is beautiful and shows a different side to Michigan. We love watching the freighters. It's peaceful and the sunsets are amazing! It's a favorite family vacation."*

### 3.4 Relationship to the Community

The eastern Upper Peninsula, where Lime Island SRA is located, is characterized by its miles of lakeshore, harbors, rural villages and outdoor recreation pursuits. Lime Island has a long history of human use, from Native American settlement, to voyageurs, farming, industry, and now recreation. Many members of the local communities have direct family ties to the island, either having lived there as children themselves, or with memories of family members employed at the island’s dock or school. When the island suffered vandalism and was in a poor state of repair due to a lack of funding, the community banded together to help, with volunteers painting, repairing buildings and helping to organize annual “Lime Island Days”. While the number of visitors to the island is low, those that do visit are often repeat customers and love the quiet and historic atmosphere. With most of the visitors originating from the local area, the impact on the local businesses is likely relatively small. In fact, businesses in the immediate vicinity of the recreation area are relatively sparse. However, the wider Les Cheneaux, De Tour and Drummond Island areas rely heavily on the tourist industry, which supports local businesses such as marinas, resorts, gift and craft shops, outfitters and guide services, a boat building school and places to eat.

One of the primary findings of the stakeholder and public outreach for this management plan was that Lime Island SRA is not well known and it was felt that more could be done to promote the site. However, the quiet and peaceful atmosphere is what many come to enjoy, so promotion and efforts to increase visitor numbers must be sensitive to the park’s purpose and significance.



*An Annual Open House was held on Lime Island through much of the 1990s*



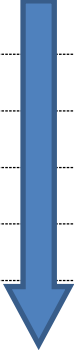
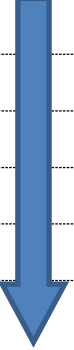
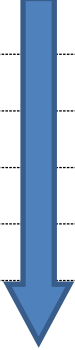
*Visitors enjoying the island  
(park visitor photo)*

# 4. Management Zones

The 20-year Management Zone Plan was developed in keeping with the park’s legal mandates and purpose and significance. The primary goal in the development of the management zones is to protect and enhance Lime Island State Recreation Area’s (SRA) natural and cultural resources while also supporting outdoor recreation opportunities at the park. From a palette of nine management zones, the planning team studied the park and applied zones that best fit each area of the park. Management zones describe a variety of activities that **may be** appropriate within the zone and address the desired future condition for the following categories:

- Natural Resources
- Historic/Cultural Resources
- Recreation Opportunities
- Education/Interpretation Opportunities
- Visitor Experience
- Management Focus

The resource condition, visitor experience, and development level vary in each zone, as indicated in the figure below.

Management Zone Progression			
Management Zone	Resource Condition	Visitor Experience	Development Level
Ecologically Sensitive	Pristine	Restricted	None
Primitive			
Backcountry			
Cultural Landscape			
History Education			
Scenic			
Natural Resource Recreation			
Developed Recreation			
Administrative Services			

Lime Island SRA was divided into the following five zones with two overlays:

- Primitive Zone
- Natural Resource Recreation Zone
- History Education Zone
- Cultural Landscape Zone
- Developed Recreation Zone
- Cultural Landscape Overlay
- Seasonal Ecologically Sensitive Overlay

### Project Boundary

A project boundary is a geographic area in which the DNR is seeking to acquire property that supports the mission of the DNR on a willing seller/willing buyer basis. During the planning process, the planning team evaluated the existing Lime Island SRA boundary and determined that no changes were necessary. The Parks and Recreation Division administered land on the mainland is shown within the 2004 Natural Resource Commission (NRC) project boundary for the Sault Ste. Marie Forest Management Unit, which proposes expansion along the St. Mary's River shoreline both south and north of the park. This will be revisited as part of the next statewide land review, removing the land administered as part of the recreation area.

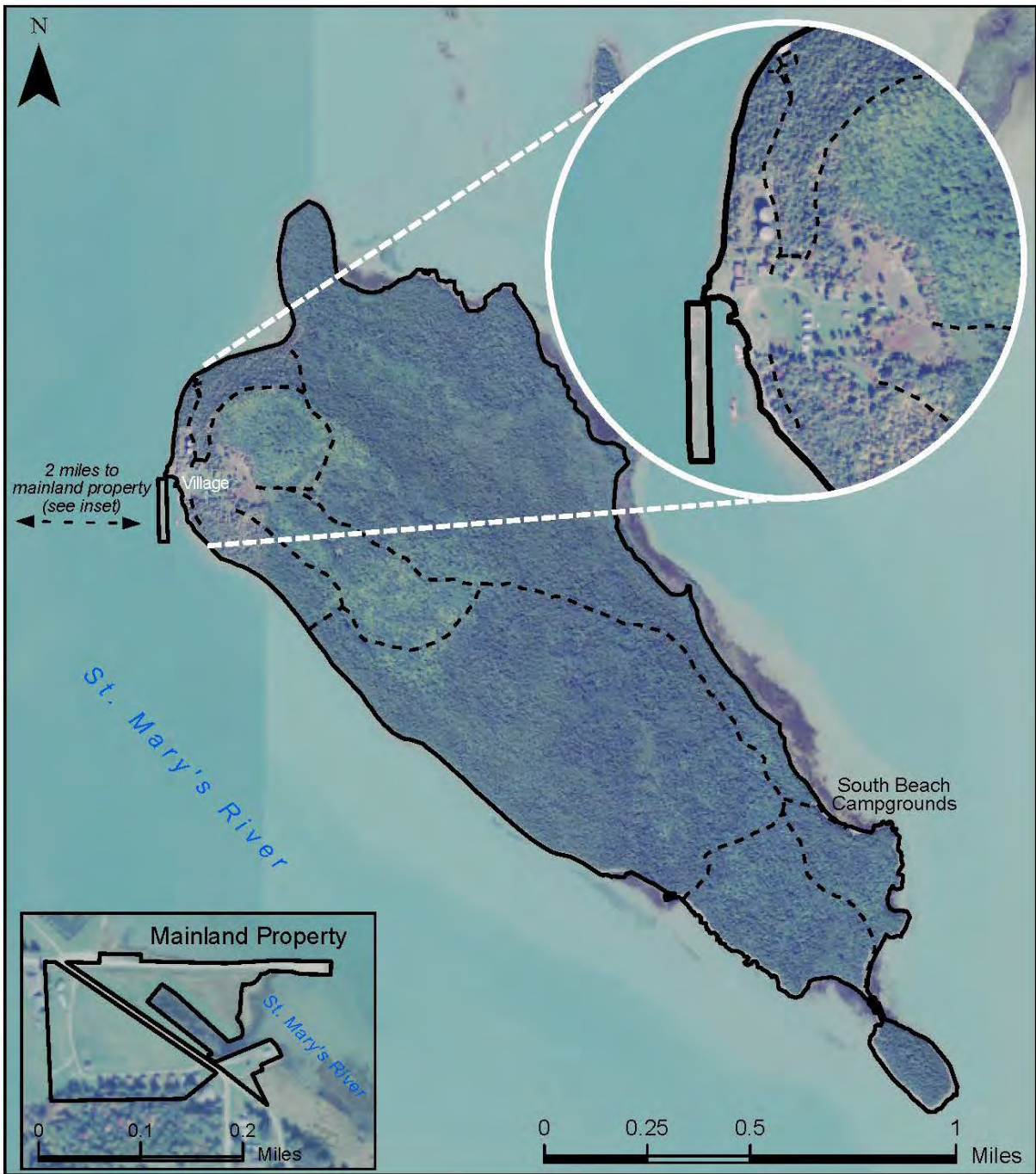
### Management Zones

A Management Zone Map and detailed description of each management zone follows. All acreages given are approximate.



*Lime Island dock on the mainland, looking out across the St. Mary's River*





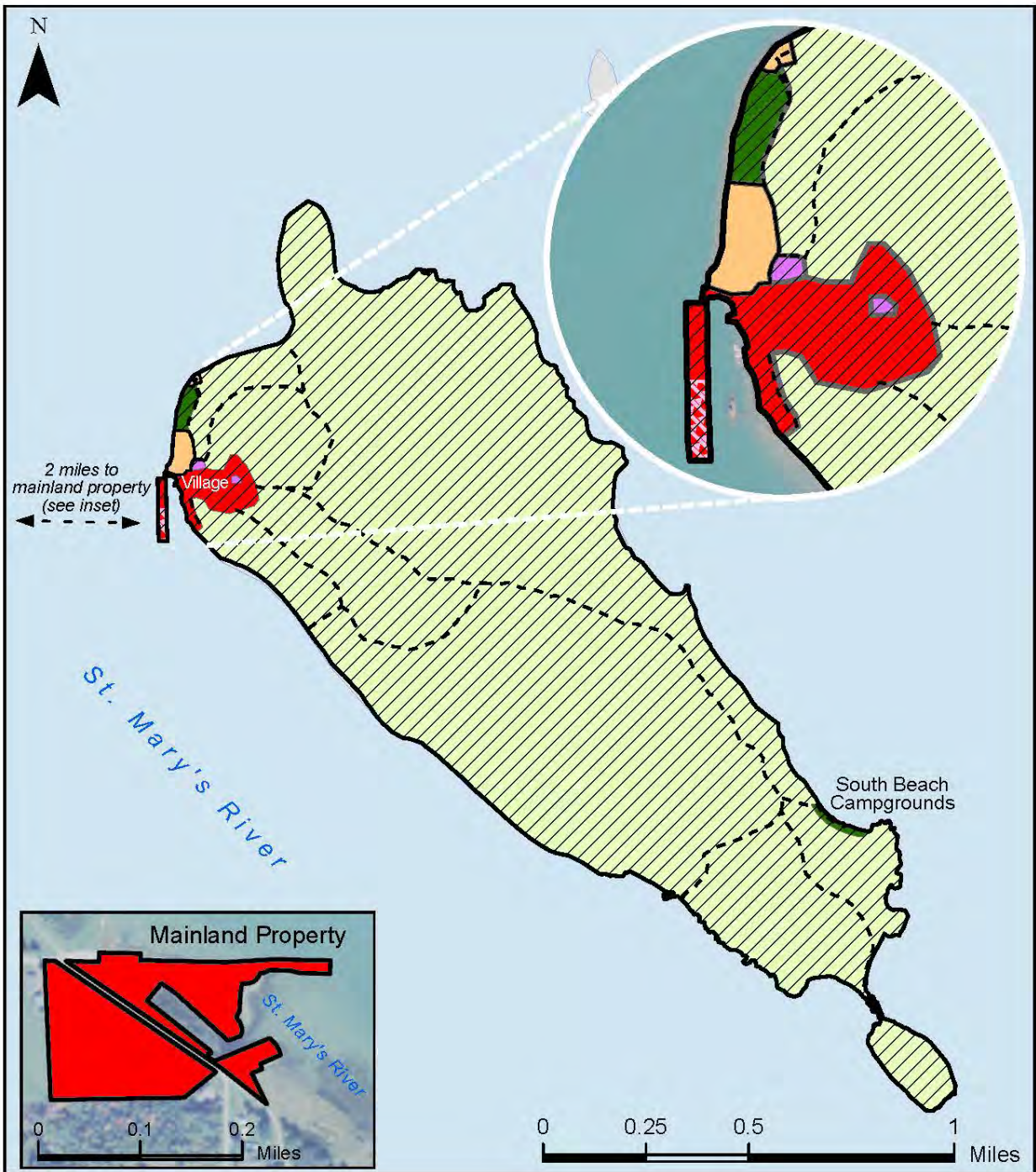
## Lime Island State Recreation Area

Park Boundary   
 - - - Designated Hiking Trails



Updated 05/28/2019





## Lime Island State Recreation Area Management Zones

- |                          |                                  |   |
|--------------------------|----------------------------------|---|
| Park Boundary            | History Education Zone           | Cultural Landscape Overlay                |
| Designated Hiking Trails | Natural Resource Recreation Zone | Ecologically Sensitive Overlay (Seasonal) |
| Primitive Zone           | Developed Recreation Zone        |   |
| Cultural Landscape Zone  |                                  |   |



Updated 05/28/2019

## **4.1 Primitive Zone**

The Primitive Zone comprises the majority of the island outside of the harbor/ village area, covering 910 acres. This zone reflects a desired condition that emphasizes natural resources, and is managed to only allow dispersed, low-frequency and low-impact recreational use. Attaining and maintaining a high-quality natural resource condition dictates the extent to which recreational improvements or uses are allowed. At Lime Island SRA, the Primitive Zone is used to protect the existing natural communities, which include boreal forest, limestone cobble shore and Great Lakes marsh.



*Boreal forest dominates the island's primitive zone*

### **Natural Resources**

Native species and natural processes take precedence over visitor accommodation in this zone. Native Michigan natural communities/ ecosystem components and processes are maintained, restored, and protected; human-caused habitat fragmentation is eliminated. A Stewardship Plan will determine the appropriate habitat management for the recreation area.

### **Historic/Cultural Resources**

There are no structures within this zone. This zone is within the Cultural Landscape Overlay in recognition of known prehistoric sites and Native American activities that have been documented on the island, as well as remnants of the more recent farming and industrial history.

### **Recreation Opportunities**

This zone allows dispersed, low density, off-trail or trailed, self-reliant (no bicycle or equestrian use) outdoor activities (e.g. hiking, backpacking, hunting/trapping, fishing, nature observation).

### **Education Opportunities**

Education opportunities in this zone are primarily off-site.

### **Visitor Experience**

The visitor can expect a low frequency of encounters with other visitors and will typically be engaged in high solitude, off-trail or trailed, self-reliant outdoor activities. This zone requires a higher time commitment and high levels of challenge and adventure.

### **Management Focus**

The focus is to maintain the low-impact character of this zone, with an emphasis on natural resource quality and quiet recreation.

### **Development**

This zone maintains a very low level of development. Site hardening (a boardwalk, for instance) is only allowed to protect sensitive resources. There should be little evidence of human activity in this zone and no development is currently planned.

## 4.2 Natural Resource Recreation Zone

The Natural Resource Recreation Zone applies to two small areas on the north and south ends of the island, totaling about 4.3 acres (0.5%). This zone includes the trail to the lime kilns and the southern campground. In the Natural Resource Recreation Zone there is still an emphasis on resource quality over recreation, but more active recreation may occur, such as rustic camping, trail use, and hunting.

### **Natural Resources**

In general, the natural resources may be managed and modified to support visitor activities. The primary long-term goal for this zone is ecosystem management that promotes the strengthening of native (natural) communities. Vegetation in this zone will be managed for the benefit of the forest and shoreline communities, as well as control of invasive species, disease, pests, and hazard tree removal.

### **Historic/Cultural Resources**

This zone is within the Cultural Landscape Overlay in recognition of known prehistoric sites and Native American activities that have been documented on the island, as well as remnants of the more recent farming and industrial history.

### **Recreation Opportunities**

Moderate to high levels of recreation compatible with the natural character of the zone are allowed. This zone currently accommodates rustic campsites, vault toilets, foot trails and fishing along the shoreline, and is open to hunting in accordance with state regulations.

### **Education Opportunities**

Informational kiosks at trailheads and along the trails at critical locations are appropriate. Potential themes for educational messages include the historic/cultural resources of the park and natural resource management.

### **Visitor Experience**

The visitor can expect moderate to high level encounters with other park visitors.

### **Management Focus**

The management focus of this zone will be on providing a high-quality recreational experience while continuing to protect the natural and cultural resources. Public safety, maintaining appropriate signage and accessibility will be primary management objectives.

### **Development**

Moderate levels of development of facilities for support of visitor activities are permitted in the Natural Resource Recreation Zone and may include non-motorized trails, rustic campsites or cabins.



*The trail to the Lime Kilns passes through the Natural Resource Recreation Zone*



### 4.3 History Education Zone

The History Education Zone applies to two specific areas of the park, the schoolhouse and the superintendent's (Victorian) house, covering less than 1 acre of the park. These buildings are reminders of life on the island for workers and their families when the coal dock and refueling depot were in operation. Both buildings contain limited interpretive exhibits and period artifacts. The emphasis in this zone is education, with the cultural resources protected, restored and interpreted for visitor understanding.

#### Natural Resources

Natural resources that have been identified as important to the historic/cultural landscape are managed to perpetuate those qualities. This can include non-native species specific to the era and/or location, such as fruit trees or ornamental shrubs. Vegetation may be managed to maintain an aesthetically appealing landscape appropriate to the era and to protect sensitive cultural resources.

#### Historic/Cultural Resources

Cultural and natural resources (including historic buildings, structures, and landscapes) may be restored to specific time period(s) if essential for the visitor understanding or rehabilitated to support visitor and staff activities for in-depth interpretation of historic period(s).

#### Recreation Opportunities

Visitors are primarily engaged in sightseeing and educational activities in a cultural setting. The recreation opportunities afforded in this zone will not interfere with the appreciation of the cultural landscape being preserved.

#### Education Opportunities

Interpretive/education activities related to the historic resources are to be encouraged and made available through exhibits, interpretive signage, printed media or digital means.

#### Visitor Experience

High visitor encounters can be accommodated within this zone, with a moderate level of noise tolerance and high level of interaction with DNR staff or volunteers. Visitors are engaged in structured interpretive/educational activities or self-exploration related to the historic settlement of the island.

#### Management Focus

Management will focus on preserving the historic/cultural integrity of the zone, incorporating accessibility improvements where feasible, and implementing improvements to education and interpretive opportunities to enhance the visitor experience.



*Coal yard sign and flag displayed in the Superintendent's House*

## **Development**

Development activity will focus on any identified restoration/preservation needs, incorporating Americans with Disability Act requirements and the principals of universal access where possible, and meeting educational/interpretation needs. Developments necessary for visitor understanding and/or staff support will be compatible with the historic period or may be accommodated off-site.

## **4.4 Cultural Landscape Zone**

The Cultural Landscape Zone addresses the overall setting in which is found not only historic structures, but also non-structural evidence of beliefs, practices or way of life. At Lime Island, this zone encompasses the historic buildings and structures associated with the industrial use of the island, including the former office building, Quonset hut with the fuel heating and pumping equipment, the large fuel tanks and the lime kilns. It covers approximately 3.8 acres, extending to the shoreline north of the dock.

## **Natural Resources**

This zone will typically reflect natural processes, with vegetation management focused to restore and maintain natural ecological structure and processes (such as removing invasive species), to address hazard trees, and to manage pests and diseases. Vegetation may be managed to enhance education/interpretation and maintain an aesthetically appealing landscape appropriate to the era and to protect sensitive cultural resources. Much of this zone is characterized by a highly modified environment, with specific requirements related to vegetation management for environmental safety.

## **Historic/Cultural Resources**

Resources include historic buildings, structures, industrial equipment, and other landscape characteristics and features. These resources will generally be preserved or rehabilitated for visitor understanding and/or compatible adaptive use by DNR or partners. If any activity within this zone requires earthwork, it must first be reviewed and approved by the Stewardship Unit of PRD and the state archaeologist.

## **Recreation Opportunities**

Visitors may be engaged in sightseeing, recreational, and education opportunities in a cultural setting. The recreation opportunities will not hinder the appreciation of the cultural landscape being preserved.

## **Education Opportunities**

This zone has a high potential for educational information regarding the key elements in this zone and past use of the island. Interpretive information could be either on or off site or by electronic means.

## **Visitor Experience**

Moderate visitor encounters can be accommodated, with a moderate time commitment and interaction with DNR staff or volunteers.



### **Management Focus**

Management focus will be on preserving the historic and cultural integrity of the zone, interpreting the site for visitor understanding and appreciation, ensuring safety for visitors and staff, and environmental protection.

### **Development**

Development will be consistent with the cultural character of the zone. Non-historic development and activities that do not conflict with the cultural landscape may be allowed, including for administrative purposes. All development within this zone shall be reviewed by the Stewardship Unit of PRD and the State Archaeologist.



*Former office building and Quonset hut (photo c. 2011)*



*Two 1.75 million gallon fuel tanks dominate the landscape*

## **4.5 Developed Recreation Zone**

This 22-acre zone (2.3%) includes the remainder of the village area as well as the 6.5-acre mainland portion of the recreation area. This includes the state dock and land formerly containing rental cabins on the mainland, and the dock, harbor, main village area, and harbor campsites on the island. The island buildings in this zone have been re-adapted for visitor and park host accommodation. Active recreation with a high density of use is typical of the Developed Recreation Zone.

### **Natural Resources**

In this zone, active recreation dominates with natural resource attributes enhanced as possible. In general, this area is not designated for natural resource significance, however, the southern portion of the dock is protected seasonally by a Land Use Order of the Director and designated as an Ecologically Sensitive Overlay. Vegetative management will address hazard trees, invasive species, pests and disease and will also be allowed for purposes of facilitating development and recreational use.

### **Historic/Cultural Resources**

Cultural resources and structures will typically be preserved, adapted or rehabilitated to support visitor activities, administrative functions or educational opportunities. Six rental cabins and one host cabin are

located in this zone, all of which were former worker's cottages constructed circa 1948. The dock is an iconic feature of the island, constructed in 1910 and integral to the island's industrial history. There are also numerous industrial artifacts throughout this zone.

### **Recreation Opportunities**

High levels of recreation in a highly structured environment can be expected in the Developed Recreation Zone. This may include modern camping or lodging, picnicking, boating, fishing, trail use, and general day-use activities.

### **Education Opportunities**

Interpretive/educational signage and/or interpretive programming is encouraged at campgrounds, day-use facilities and the dock/harbor.

### **Visitor Experience**

High visitor encounters can be accommodated and should be expected during the summer months. A high noise tolerance and high level of interaction with DNR staff is also characteristic of this zone.

### **Management Focus**

Management focuses on maintaining and improving the infrastructure that serves the public uses of this zone and providing a high level of accessibility. The effective management of people, public safety and good hospitality practices are also key to providing positive visitor experiences.

### **Development**

A high level of development of facilities for support of visitor activities is generally appropriate in this zone, such as restrooms, hard surfaced pathways and parking areas, picnic facilities, modern camping, cabins and lodges, docks and boat launches. Providing universal access wherever feasible should be the goal of all new development. Given the remote nature, modern facilities may not be feasible or appropriate on Lime Island.



*Visitors relax outside the rental cabins in the Developed Recreation Zone*



*Docks on the island are scheduled for redevelopment*

#### **4.6 Seasonal Ecologically Sensitive Overlay**

Totalling approximately 1 acre, this designation protects a colony of state-threatened common terns (*Sterna hirundo*) which nests on the south end of the dock. Public entry into this zone and mooring (except during high seas and storm events) is prohibited seasonally from May to September by a Land Use Order of the Director to protect the terns.



*A colony of state-threatened common terns nest seasonally on the island dock*

#### **Natural Resources**

Maintaining the habitat conducive to nesting is the focus of this overlay.

#### **Historic/Cultural Resources**

The coal dock is an important cultural resource. Specific guidance will be in keeping with the underlying zone (Developed Recreation) and the Cultural Landscape Overlay.

#### **Recreation Opportunities**

No active recreation opportunities will be allowed during the nesting season. Passive appreciation of the birds from afar is encouraged. The dock may be used for mooring outside of the nesting season, although this is not the primary boating season. The entire dock may be used during weather emergencies.



Interpretive signage overlooking the dock

#### **Education Opportunities**

Interpretation of the tern colony outside of this overlay is provided and is encouraged. The colony also presents the opportunity for research projects.

#### **Visitor Experience**

To protect the sensitive resources for passive appreciation, visitors are not allowed in this zone seasonally. Access may be permitted for ecological research and monitoring on a case by case basis through an issued permit. Visitors may observe the birds from outside of the Seasonal Overlay Zone.

#### **Management Focus**

Management of this zone will be focused on maintaining conditions suitable for nesting and removing human and predator disturbance.

#### **Development**

Development within this zone is generally prohibited, with the exception as an intervention for resource protection.

## **4.7 Cultural Landscape Overlay**

The Cultural Landscape Overlay recognizes the cultural resources that have been identified as a result of several archaeological surveys and encompasses the entire Lime Island except for areas designated as a base Cultural Landscape Zone (approximately 928 acres). It is considered an “overlay” of all other zones in the park. The known cultural resources represent many different time periods from pre-contact Native American sites to remnants of the park’s industrial history.

### **Natural Resources**

For natural resource management, the prescriptive description of the underlying zone will apply.

### **Historic/Cultural Resources**

Resources include historic buildings, structures and other landscape characteristics and features. These resources will generally be preserved or rehabilitated for visitor understanding and/or compatible adaptive use. If any activity within this overlay requires earthwork, it must first be reviewed and approved by the Stewardship Unit of PRD.



*Industrial equipment remains in the village area*

### **Recreation Opportunities**

Visitors may be engaged in recreation opportunities as allowed by the underlying zone designation. The recreation opportunities will not hinder the appreciation of the cultural landscape being preserved.

### **Education Opportunities**

Information regarding the key elements in this zone can be made available at key locations where people gather. Specific features can be interpreted, and the placement of informational kiosks or signs is appropriate if supported by the underlying zone. Additionally, electronic means of interpretation can be explored.

### **Visitor Experience**

The visitor experience, interaction with others, time commitment, and level of activity will vary according to the underlying zone.

### **Management Focus**

Management focus will be on preserving the historic and cultural integrity of the zone.

### **Development**

The level and type of development will be consistent with the underlying zone. Non-historic development and activities that do not conflict with the cultural landscape may be allowed. All development within this overlay shall be reviewed by the Stewardship Unit of PRD and the State Archaeologist.



# 5. 10-Year Action Goals Plan

The planning team, with stakeholder and public input, has developed 10-Year Action Goals that it believes are necessary to guide management and development within the recreation area in order to achieve the desired user experience. Action goals are recommended that address the following categories:

- Natural Resources
- Historic/Cultural Resources
- Recreation Opportunities
- Education/Interpretation Opportunities
- Management Focus
- Development

These goals apply either to Lime Island State Recreation Area as a whole (all management zones) or to specific locations within the park, as appropriate and according to the management zones. Refer to the zone descriptions in Chapter 4 for appropriate activities in each zone.

Lime Island is steeped in history, but little formal research or planning has been done in this regard. The action goals for Lime Island include completion of several inventories, studies and reports to better understand the current condition, maintenance requirements, and potential future use of structures and artifacts associated with the past uses of the island. In addition, a follow-up to a 2007 environmental report is recommended to determine options to mitigate the bunker fuel storage tanks.

Other proposed action goals focus on improving the visitor experience, such as an island dock improvement project, installing a new solar power distribution system on the island, rehabilitating the boat basin and developing a rustic campground or other overnight accommodation on the mainland to support island access, researching options for transportation to the island, and improvements to land and water trail maps, signage and interpretive information.

Management plans are based on known needs, funding realities, and sound investment policies, but do not guarantee future Parks and Recreation Division (PRD) funding to achieve the actions identified. PRD will seek internal funding, alternative funding sources, partnerships and other potential mechanisms for implementing the desired future conditions defined in this plan. On an annual basis, PRD districts determine priorities for project planning and project capital outlay. Each district's top projects are then evaluated at a state-wide level for available funds.

The action goals below are organized by management and operation decisions and capital outlay projects, which are further divided into major and small projects to correspond with PRD funding programs. The following 10-year action goals are ranked in terms of priority based on health, safety, and welfare, as well as ease of implementation (cost, ability to implement with own staff, partnerships, etc.). Priority Level 1 projects indicate those that should be addressed within the next 2 years. Priority Level 2 projects include those that should be addressed within 2-5 years. Priority Level 3 projects are desired, but can be tackled in the next 5-10 years, once funding has been identified. In the program input column, the bolded party is the program lead. Opinion of probable costs have been developed for each capital outlay action goal identified (see Appendix C) and these projects will be included in the statewide master project list.

**TEN-YEAR ACTION GOALS  
MANAGEMENT & OPERATIONS**

<b>Action Goals</b>	<b>Priority</b>	<b>Management Zone</b>	<b>Program Input From</b>
Complete environmental inspections in accordance with Caretaker and Operations & Maintenance Plan and implement remedial work as may be identified.	Annual	Developed Rec. Cultural Landscape	<b>Park Supervisor</b> District Supervisor
Review and amend the SPCC & PIP Plan every three years (minimum) or when any changes to personnel, site conditions or regulations may require revisions.	Ongoing	Developed Rec. Cultural Landscape	<b>Park Supervisor</b> District Supervisor
Complete annual inspection of campground boardwalks and camping platforms and implement repairs/ replacement as necessary.	Ongoing	Developed Rec. Natural Res. Rec. Cultural Landscape	<b>Park Supervisor</b> Regional Planner
Review all proposed earthwork activities for impact on cultural resources.	Ongoing	Cultural Landscape Zone & Overlay	<b>Park Supervisor</b> Regional Planner Stewardship State Archaeologist History Center
Continue to protect and manage the common tern colony on the coal dock.	Ongoing	Ecologically Sensitive	<b>Park Supervisor</b> <b>Stewardship</b> Wildlife
Coordinate message with regional tourism and recreation entities regarding safe access to the island.	Ongoing	All	<b>Park Supervisor</b> Water Trails Coordinator LED
Continue to promote and support recreational fishing opportunities by maintaining shoreline access within the recreation area and improving facilities that support those fishing by boat.	Ongoing	Developed Rec. Natural Res. Rec. Primitive	<b>Park Supervisor</b> Fisheries
Control poison ivy in high use areas, such as campsites.	Ongoing	Developed Rec. Natural Res. Rec.	<b>Park Supervisor</b>
Work to secure a seasonal unit ranger position to provide additional support for island in coordination with regional needs.	1	All	<b>District Supervisor</b> Park Supervisor
Research and make recommendations for water transportation options to and from the island.	1	All	<b>Park Supervisor</b> District Supervisor Lease Manager



<b>TEN-YEAR ACTION GOALS</b>			
<b>MANAGEMENT &amp; OPERATIONS (Continued)</b>			
<b>Action Goals</b>	<b>Priority</b>	<b>Management Zone</b>	<b>Program Input From</b>
Complete an assessment of the existing boardwalks at lime kilns and make recommendations for maintenance and repairs.	1	Cultural Landscape	<b>Regional Planner</b> Stewardship Park Supervisor
Develop a Stewardship Plan for the park, identifying targets for conservation and related natural resource management strategies.	2	All	<b>Stewardship Ecologist</b>
Inventory artifacts in superintendent's house and schoolhouse	3	History Education	<b>History Center</b> Island Host State Archaeologist
Inventory artifacts in industrial complex	3	Developed Rec. History Education	<b>History Center</b> State Archaeologist
Explore the potential to enter into a business partnership for development and operation of overnight lodging facilities on the mainland	3	Developed Rec.	<b>Park Supervisor</b> Concession & Lease Manager Business Analyst

<b>INFRASTRUCTURE &amp; DEVELOPMENT: CAPITAL OUTLAY</b>			
<b>Action Goals</b>	<b>Priority</b>	<b>Management Zone</b>	<b>Program Input From</b>
Implement island dock improvements in accordance with the design currently in progress	1	Developed Rec.	<b>Regional Planner</b> Park Supervisor
Conduct a study to determine best approach to deal with the bunker fuel storage tanks, including considering removal of the remaining fuel.	1	Cultural Landscape	<b>Regional Planner</b> Park Supervisor District Supervisor EGLE
Implement maintenance and repairs of boardwalks at lime kilns in accordance with assessment.	2	Cultural Landscape	<b>Regional Planner</b> Stewardship Park Supervisor
Complete a phase 1 archaeological study of the entire island.	2	All	<b>Regional Planner</b> <b>Stewardship</b> State Archaeologist Park Supervisor

**TEN-YEAR ACTION GOALS**  
**INFRASTRUCTURE & DEVELOPMENT: CAPITAL OUTLAY (continued)**

Action Goals	Priority	Management Zone	Program Input From
Implement stabilization of the lime kilns, including stabilizing the stone structures and selective vegetation removal	2	Cultural Landscape	<b>Regional Planner Stewardship</b> Park Supervisor State Archaeologist
Complete an exterior and interior evaluation of the schoolhouse and superintendent's house.	2	History Education	<b>Regional Planner Stewardship</b> Park Supervisor History Center
Complete a Cultural Resource Management Plan for the industrial complex to: (i) Document the historic significance (ii) Preserve & restore the essential historic resources of the site (iii) Support the use and enjoyment of the resources while minimizing negative effects	2	Cultural Landscape	<b>Regional Planner Stewardship</b> Park Supervisor History Center
Provide specific outdoor interpretation opportunities	2	Developed Rec. Cultural Landscape History Education	<b>MOD History Center Stewardship</b>
Install new solar power distribution system on the island, evaluating the ability to include powering the septic pump and supporting other island primary utilities, and rehouse batteries.	2	Developed Rec.	<b>Regional Planner</b> Park Supervisor
Complete exterior cabin renovations	2	Developed Rec.	<b>Park Supervisor</b> Regional Planner Stewardship
Make improvements to boat basin on the mainland to make it viable	3	Developed Rec.	<b>Regional Planner</b> Park Supervisor
Develop a rustic campground or other overnight accommodation on the mainland to support access to Lime Island	3	Developed Rec.	<b>Regional Planner</b> Park Supervisor

TEN-YEAR ACTION GOALS			
INFRASTRUCTURE & DEVELOPMENT: SMALL PROJECTS			
Action Goals	Priority	Management Zone	Program Input From
Install site rules and property boundary markers on state-owned land on the mainland	1	Developed Rec.	<b>Park Supervisor</b> Regional Planner
Remove fish cleaning station on mainland (in poor state of repair)	1	Developed Rec.	<b>Park Supervisor</b>
Update trail maps and provide updated trail signage and confidence markers	2	All	<b>Park Supervisor</b> Trails Specialist MOD
Revisit Explorer Water Trail and determine site amenities and education information as may be required in coordination EUP Regional Planning and Development Commission	2	All	<b>Water Trails Coordinator</b> Park Supervisor Community Partners

SPCC- Spill Prevention and Pollution Control  
 PIP - Pollution Incident Prevention Plan  
 MOD – Marketing and Outreach Division

LED – Law Enforcement Division  
 EUP – Eastern Upper Peninsula  
 EGLE – Dept. of Environment, Great Lakes & Energy



*Kayaker experiencing the island from the water.  
 Paddling to Lime Island is recommended only for experienced paddlers*

# 6. Implementation Strategy

This chapter of the general management plan (GMP) provides guidance for implementation of the action goals and maintaining the plan so it remains relevant in the long term. These guidelines will also help the park align the action goals with park, district and statewide annual funding processes and annual tasks outlined in the Parks and Recreation Division's Strategic Plan or other planning documents. Although the implementation of the GMP will require commitment from staff at every level, it will be the primary responsibility of the Unit Supervisor/Manager to oversee plan implementation.

A long-range plan such as this must maintain a degree of flexibility in order to be responsive to changing circumstances or opportunities that cannot be foreseen. It is recognized that some goals may be accomplished in a short time frame, while others may carry over through multiple years. It is important to track progress so that the plan remains a relevant park management tool. The GMP will be reviewed every five years to ensure it remains viable.

## 6.1 Implementation Toolbox

The following is a list of items to consider when reviewing and prioritizing the implementation of action goals identified in the GMP.

### Coordination/ Communication

- Meet regularly with the Regional Field Planner and District Supervisor to coordinate and prioritize large capital projects for capital outlay requests.
- Maintain an open dialogue with local partners and stakeholders to coordinate community-related projects as identified in the action goals.
- Follow-up regularly on progress for action goals that are not the primary responsibility of the Unit Supervisor/Manager with the responsible program position.

### Funding

- Identify estimated cost for each capital improvement/infrastructure project, with assistance from Regional Field Planner or other planning and infrastructure section staff as needed.
- Identify potential funding sources for each project/task. Liaise with PRD grants coordinator as appropriate.
- Align potential funding sources with the annual "call for projects" for capital outlay funding requests.
- Review action goals list and determine which projects can be requested to receive District Small Project funding through the District Supervisor.

### Scheduling

- Further prioritize projects based on need, funding, staffing, and other constraints/ opportunities.
- Incorporate project/task assignments into annual staff performance objectives.

## 6.2 Documentation of Changes

The Unit Supervisor/Manager should keep a record of any major changes to the park since approval of the GMP and note potential updates that may be required in the future. Documenting these changes will assist in the 5-year plan review or when the GMP is updated. Changes may include:

- New user requests or conflicts
- Emerging recreation, funding, or partnership opportunities
- Changes in land management
- Land transactions or changes to the approved Project Boundary
- Major infrastructure projects or removal of structures

Changes may be documented by marking up the park's copy of the GMP or maintaining a log that is kept with the GMP. In reviewing the action goals for changes, document goals that may become irrelevant or are no longer viable, as well as proposed new action goals, including justification.

The park zoning is intended to be a long-term document: changes will only be considered with adequate justification and are subject to a formal review and approval process.

## 6.3 Documentation of Accomplishments

As action goals are completed, the Unit Supervisor/Manager should mark them as such in the park's copy of the GMP, including the completion date. This will also help to maintain a log of accomplishments for district and division-wide reporting purposes, including PRD's strategic plan.

## 6.4 Five-year Review Process

General management plans are reviewed every five years from the date of approval of either the phase 2 plan or the complete GMP. The planning team for the 5-year review is made up of the Park Management Plan Administrator, Unit Supervisor/Manager, Regional Field Planner and District Supervisor, with other team members included as may be necessary. A 5-Year Review Form will be used to record all changes to the plan within the past 5 years. Upon reviewing the GMP and the documented changes, the planning team will determine whether the changes warrant a complete update of the plan.

If there are no major changes required in either the zoning or the action goals, the planning team will complete the 5-Year Review Form and attach it as a supplement to the existing GMP. If zoning changes are needed, the GMP will be revised or updated following the established planning process led by the Park Management Plan Administrator. If changes to the action goals only are required, the phase 2 GMP planning process will be implemented.

# Appendix A – Supporting Analysis

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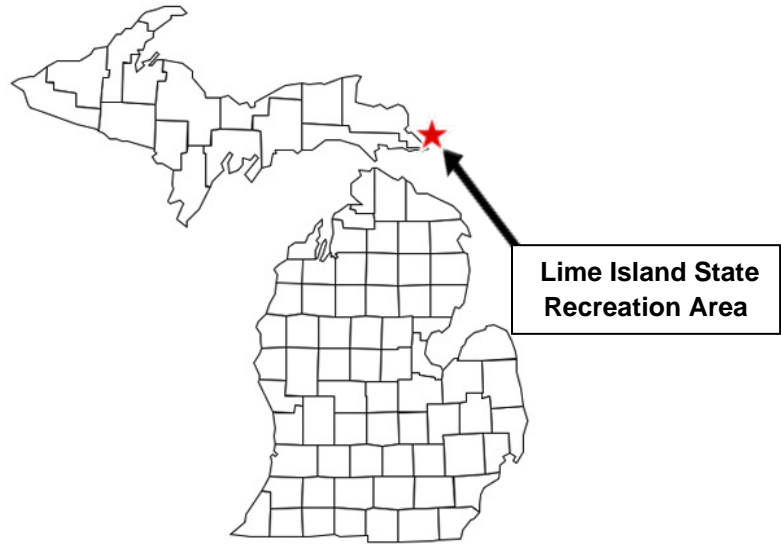
## A.1 PARK SETTING

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### Park Profile

Area: 938 Acres  
County: Chippewa County  
Township: Raber Township  
Latitude: 46.083063  
Longitude: -83.993348

Address: C/O Brimley State Park  
9200 W. 6 Mile Road  
Brimley MI, 49715  
Phone #: 906-248-3422



Lime Island State Recreation Area (SRA) encompasses the entire 932-acre Lime Island - located in the St. Mary's River off the eastern tip of Michigan's Upper Peninsula - plus about 6.5 acres on the mainland in the community of Raber. Visitors to the island must charter or navigate a boat more than two miles across the St. Mary River. Lime Island's location has helped shape its rich history as an industrial complex and ship refueling depot. Original structures that once supported the island's industrial use and past residents, have largely been restored and re-purposed as a recreational boat dock and harbor of refuge, rental cabins, administrative or interpretive buildings.

Lime Island offers a rare blend of educational, historical and recreational opportunities. Visitors to the island can enjoy activities such as hiking, fishing, swimming and hunting, along with visiting the historical sites and watching the large freighters pass by in the major shipping lane. Lime Island offers a boat dock, rustic cabins for lodging and tent camping on wooden platforms. The site is managed out of Brimley State Park to the north.



*Access to Lime Island is only available via boat*

## Location & Community

Lime Island State Recreation Area (SRA) is located in Raber Township, Chippewa County. Boats to the island typically launch from Raber or travel from De Tour Harbor. The mainland closest to Lime Island is rural with dispersed small towns. Raber is about 20 miles northeast of the village of Cedarville and 42 miles southeast of Sault Ste. Marie, the second most populous city in the Upper Peninsula. The primary transportation routes are M-134, which runs east and west, and M-48, which runs north and south.

Raber was once home to a large sawmill. Today it is a small community on the shores of the St. Mary's River with some houses, a motel, some resorts and the Raber Bay Bar, which has been serving the community for nearly a century. Raber is known for outstanding fishing for herring, northern pike, smelt and walleye in Raber Bay. The larger communities of St. Ignace, Cedarville and Sault Ste. Marie offer a wider variety of services and amenities and attractions such as the Les Cheneaux Islands and the Soo Locks. Other communities in the vicinity include Goetzville and Stalwart in Raber Township, Pickford to the northwest and De Tour Village to the southeast. De Tour is the gateway to Drummond Island, an outdoor recreation destination, providing opportunities for fishing and hunting, and miles of trails for off-road vehicle enthusiasts.



*Lime Island harbor and cottages*



- Legend**
- Country Boundary
  - State Parks
  - County Boundary



## Lime Island State Recreation Area

Location



Updated 01/04/2019

## A.2 DEMOGRAPHICS

The U.S. Census Bureau reports that the 2010 population of Chippewa County was 38,520. The 2015 estimate was 38,033, demonstrating a projected population decrease of 1.7% over a 5-year period. This county is mostly rural, with Sault Ste. Marie being the main source of population density. The overall density of the county is 24.7 persons per square mile.

A distinctive feature for Chippewa County is that it has a higher than the state's average American Indian population at 15.7%. The county has lower than the state per capita income of \$20,563, a lower percentage of the population possessing a Bachelor's degree or higher, and a generally older population.

The population of Raber Township is just 647 according to the 2010 U.S. Census. Of the 687 recorded housing units, approximately 50% are for seasonal, recreational or occasional use.

### U.S. Census Data for Chippewa County

Population Quickfacts	Chippewa Cty	Michigan
Population estimates, July 1, 2015	38,033	9,922,576
Population, Census, April 1, 2010	38,520	9,883,640
Persons under 5 years, percent, April 1, 2010	4.8%	6.0%
Persons under 18 years, percent, April 1, 2010	18.7%	23.7%
Persons 65 years and over, percent, April 1, 2010	16.6%	13.8%
Female persons, percent, April 1, 2010	44.7%	50.9%
White alone, percent, April 1, 2010	71.4%	78.9%
Black or African American alone, percent, April 1, 2010	6.9%	14.2%
American Indian and Alaska Native alone, percent, April 1, 2010	15.7%	0.6%
Two or More Races, percent, April 1, 2010	5.0%	2.3%
Veterans, 2010-2014	3,656	648,273
Foreign born persons, percent, 2010-2014	2.7%	6.2%
Housing units, April 1, 2010	21,207	4,532,233
Owner-occupied housing unit rate, 2010-2014	70.3%	71.5%
Households, 2010-2014	14,382	3,827,880
Persons per household, 2010-2014	2.37	2.52
Language other than English spoken at home, % age 5 yrs+, 2010-2014	4.8%	9.1%
High school graduate or higher, % age 25 years+, 2010-2014	89.4%	89.3%
Bachelor's degree or higher, % age 25 years+, 2010-2014	19.4%	26.4%
Mean travel time to work (minutes), workers age 16 years+, 2010-2014	16.8	24.1
Median household income (in 2014 dollars), 2010-2014	40,828	49,087
Per capita income in past 12 months (in 2014 dollars), 2010-2014	20,563	26,143
Persons in poverty, percent	19.9%	15.8%
Population per square mile, 2010	24.7	174.8
Land area in square miles, 2010	1,558.42	56538.90



## A.3 REGIONAL RECREATION RESOURCES

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The eastern Upper Peninsula has abundant public land and associated opportunities for outdoor water-based and land-based recreation. The following resources can be found within an hour of Lime Island.

### **Federal Recreation Resources**

The Hiawatha National Forest covers nearly 1 million acres in the central and eastern parts of Michigan's Upper Peninsula. The forest is divided into two separate units: the eastern unit stretches north from St. Ignace on the Straits of Mackinac to the shores of Lake Superior. The Hiawatha provides a variety of recreation opportunities including hiking, cross-country skiing, hunting, fishing, wildlife watching, camping, equestrian riding, snowmobiling, and ORV use.

Harbor Island National Wildlife Refuge is located just off the north shores of Drummond Island in Potagannissing Bay on Lake Huron. This 695-acre horseshoe-shaped island contains a variety of habitat including marshes, sandy beaches, and mature stands of balsam fir, white cedar, paper birch, sugar maple and red oak. Wildlife species on the island include red fox, ruffed grouse, snowshoe hare, white-throated sparrow, white-tailed deer, gray jays and magnolia warblers.

### **International Recreational Resources**

Due to its proximity to Canada, recreation opportunities on St. Joseph Island, Ontario, CA should be considered. The two main resources in Canada are one mile east of Lime Island.

- Saint Joseph's Island Bird Sanctuary is a refuge for many migratory bird species such as the American black duck, scaups, and common and red breasted mergansers.
- Fort St. Joseph National Historic Site of Canada symbolizes the commercial and military alliance that existed between the British and the First Nations people of the Great Lakes.

Note that U.S. and Canadian Customs and Border Control regulations must be followed if landing from a foreign port or place.

### **State Recreation Resources**

#### State Parks

- Brimley State Park is the closest state park to Lime Island SRA, located about 45 miles to the northwest. This 160-acre park is one of the oldest state parks in the Upper Peninsula, opening in 1923. It offers scenic views of Lake Superior's Whitefish Bay and is popular for camping, hunting, fishing, boating and hiking.

- Straits State Park is 55 miles southwest of Lime Island SRA on the Straits of Mackinac. Encompassing 181 acres, this park provides some impressive views of the Mackinac Bridge. The park also features a large modern campground and the Father Marquette National Memorial, which tells the story of that 17th-century missionary-explorer and the meeting of French and Native American cultures in the 7<sup>th</sup> century.

#### Sault Ste. Marie State Forest Management Unit

The Sault Ste. Marie Forest Management Unit (FMU) manages 322,500 acres out of offices in Sault Ste. Marie and Naubinway. These two areas are separated geographically by the Hiawatha National Forest. The Sault FMU, in cooperation with the DNR's wildlife division, is responsible for approximately 125,000 acres in Chippewa County and eastern Mackinac County, including state land on numerous islands in the St. Mary's River and Lake Huron, most notably over 47,000 acres on Drummond Island. The state forest provides expansive land for hunting, fishing and wildlife viewing. Recreation opportunities managed by the parks and recreation division within the Sault FMU include two state forest campgrounds (SFCG), cross-country ski trails, over sixty miles of designated ORV and motorcycle trails, and many miles of snowmobile trails.

#### State Forest Campgrounds

The DNR Parks and Recreation Division manages two State Forest Campgrounds (SFCG) in the vicinity of Lime Island SRA.

- Munuscong River SFCG is a rustic campground located along the Munuscong River about 21 miles northwest of Lime Island SRA. The campground is managed by Brimley State Park and offers 26 campsites and a boat launch with courtesy pier.
- De Tour SFCG is located on Lake Huron about 12 miles south of the Lime Island. The rustic campground, managed by De Tour Harbor, provides 21 sites for tent and small trailers use.

#### Drummond Island

Drummond Island includes over 47,000 acres of state owned land. Visitors are attracted by the extensive ORV trails as well as fishing and hunting opportunities. Drummond Island Grouse Enhancement Management Site (GEMS) is a premier ruffed grouse hunting area located at the north end of the island. Thousands of acres of aspen can be found within a mile of Scott Bay. In addition, Potagannissing Flooding (2,200 acres) wildlife management area is located on the island.

#### State Wildlife Management Areas

In addition to those mentioned above, the wildlife division of the DNR manages several areas near Lime Island. Visit the [state wildlife/game areas map and list](#) on the DNRs website for additional information.

#### De Tour State Harbor

De Tour State Harbor is located in the Village of De Tour, about 14 miles southeast of the boat launch to Lime Island and is managed out of Brimley State Park. This 62-slip marina includes amenities such as diesel, gasoline, pump-out, laundry, restrooms and showers.



### Boating Access Sites

Lake Huron and St. Mary's River public boating access sites (BAS) in the region are listed below.

Name	Manager	Waterbody	Description
Raber Township BAS (south)	Raber Township	St. Mary's River	Hard surfaced ramp with 15 parking spaces, pier and river viewing area
Raber Township BAS (north)	Raber Township	Raber Bay	Hard surfaced ramp at road end
Conely Point BAS	DNR – Brimley SP	Munuscong Bay	Double hard-surfaced launch ramp with paved for 45
De Tour Village	DNR – Brimley SP	Lake Huron/St. Mary's River	Hard-surfaced ramp with skid pier, vault toilet and paved parking
De Tour Passage	DNR – Brimley SP	Lake Huron/St. Mary's River	Hard-surfaced ramp with skid pier, vault toilets and gravel parking.
Maxton Bay BAS (Drummond Island)	DNR – Brimley SP	Lake Huron/St. Mary's River	Hard-surfaced ramp with gravel parking

### **Regional Trails**

The primary ORV/ATV and motorcycle trails in the region are listed below. Trailheads are maintained by staff from Brimley State Park and De Tour Harbor.

- Foreman Lake Motorcycle Trail (12 miles in length)
- Cranberry Lake Trail (7 miles) accessible from De Tour SFCG
- Birch Hill Motorcycle Trail (8 miles)
- Drummond Island Route, accommodating ORVs of all sizes, including motorcycles, (47 miles)
- Drummond Island Trail for ORVs 50 inches in width of less (35 miles)
- Bay City Lake Trail (8 miles) in Mackinac County
- Kinross Motorcycle Trail (31 miles)

The Eastern UP includes many miles of groomed snowmobile trails. Snowmobile Trail 447 runs west from De Tour, following the Lake Huron shoreline. Trails 491 and 49 connect Trail 447 to Sault Ste. Marie.

[St. Mary's River Island Explorer Water Trail](#) runs from Sault Ste. Marie to De Tour Village and has been mapped by Eastern UP Regional Planning. The St. Mary's River carries paddlers past islands large and small, with many different landing points. At the southern end, paddlers can view an underwater shipwreck preserve. Use of a non-motorized boat to reach Lime Island is not recommended.

The North Huron Birding Trail has five unique birding zones: St. Ignace, Les Cheneaux Area, De Tour, Drummond Island, and Pickford Grassland Area. The rocky shorelines and protected bays of the north shoreline of Lake Huron in Michigan's Upper Peninsula create excellent habitats for a wide variety of bird species

### **Municipal Recreation Facilities**

- Raber Township has a Township Hall available for rent, a community recreation area with baseball field, playground and picnic area, and two hard surfaced launch ramps.
- Kinross Township to the northwest maintains a Recreation Center with indoor and outdoor facilities, RV Park East with 64 full hook-up campsites, RV Park West providing 303 modern campsites and a large area for primitive camping adjacent to the fairground. The township also provides several smaller community parks, lake access sites, and a 18-hole public golf course.
- Cedarville Waterfront Park provides opportunities for picnicking and bird and wildlife watching on the nearby marshes.

### **Private Recreation Facilities**

This region contains many privately-owned resorts, RV parks, and campgrounds. Due to its network of ORV trails, hunting and fishing opportunities, the Drummond Island area supports many private businesses. Some of the private facilities near Lime Island SRA include Drummond Island RV Park, Drummond Island Yacht Haven, Raber Bay Landing, Paradise Point RV Park and several others. The area also supports outfitters and guiding services that assist with recreational planning and equipment.

### **Nature Preserves**

This area of the Upper Peninsula contains many nature preserves both along the lakeshore and inland. The nature preserves provide refuge for a variety of wildlife and plant species. The primary preserves in the area are listed below:

- Birge/Mertaugh/Nye/Wallace Nature Preserve (813 acres), Little Traverse Conservancy
- Marquette Island Preserves (1,896 acres), Little Traverse Conservancy
- De Tour Peninsula Nature Preserve (145 acres), Little Traverse Conservancy
- Carlton Lake Wetlands Nature Sanctuary (Limited access), Michigan Nature Association
- Carl S. Gerstacker Nature Preserve (1,615 acres), The Nature Conservancy
- Schafer Family Nature Sanctuary at Roach Point (763 acres), Michigan Nature Association

### **Historic Resources**

A number of lighthouses are found along the shoreline and amongst the island complexes. The De Tour Reef Light, located one mile offshore between De Tour Village and Drummond Island, has been restored by the De Tour Reef Light Preservation Society. An overnight keeper program and public tours are available. The associated De Tour Passage Historical Museum is located in De Tour Village.

The Soo Locks are a major maritime history destination. The locks have provided safe passage and a vital shipping connection within the Great Lakes for 160 years. Visitors can watch freighters navigating the locks from a viewing platform and learn about the history in the visitor's center.

### Underwater Preserves

De Tour Passage Underwater Preserve marks a natural “choke point” for ships navigating between Lake Huron and the Sault Ste. Marie locks. The remains of many lost ships can be found, resting in shallow waters easily accessible to divers. The wreck of the Rome is located off the west shores of Lime Island in about 15 feet of water.



*De Tour Passage Underwater Preserve*

## A.4 HISTORY OF LIME ISLAND STATE RECREATION AREA

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Lime Island's unique geographical location means that it has been visited and inhabited for thousands of years. Archaeologists have found evidence of Native presence on the island from thousands of years ago and have speculated that flat areas on the south end of the island were used as lacrosse grounds. Native groups probably inhabited the island seasonally for hunting and fishing.

In the 17<sup>th</sup> and 18<sup>th</sup> centuries different people encountered each other in the St. Mary's River region and likely on Lime Island itself. Native people, mostly Ojibwe and Odawa, interacted with French *voyageurs* (traders) and missionaries, British soldiers, and, later, American settlers. The 1836 Treaty of Washington, in which Anishinaabe groups ceded the Eastern UP to the US, included Lime Island. As a border island, it was unclear what country Lime Island belonged to until an 1842 treaty put the island in American, rather than Canadian, waters.

The island's natural resources, location, and scenic beauty were used intensively in the 19<sup>th</sup> century. Lime kiln remnants still exist from operations to quarry and process the island's rich limestone deposits. Early French maps referred to the island as "Plaster Island," and material from the island was reportedly used to construct Fort St. Joseph in the 1790s. Homesteader Joseph Kemp and his family farmed and developed the island from the 1840s to the 1880s while Kemp served in a number of government agent roles in the Sault Ste Marie area. He sold the island to the Lime Island Manufacturing Company, which from 1885-1890 shipped out lime in barrels made on the island. Once that facility closed, the island served as a resort called the St. Mary's Club from the 1890s until 1910, with a hotel hosted by Frances O. Davenport. A local story claims that Mae West and other celebrities performed at the St. Mary's Club during this period. In 1909 a steamer called *The Rome* caught on fire and went down in Lime Island harbor with no casualties. The wreck is quite near the surface and still serves as a harbor breakwater.

Davenport sold the island to a coal company in 1910 and the island became a refueling operation to keep Great Lakes ships moving. The coal and fuel oil dock on the broad, deep, St. Mary's River connecting Lake Huron and Lake Superior made a convenient place for the ships to reload with fuel. In 1912, the Pittsburgh Coal Company built the coal dock where freighters could quickly refuel. Workers transported a three-story home across the ice for the superintendent, and other homes soon followed using the same method. The former hotel was converted into four apartments for worker housing. By the late 1920s approximately fourteen families lived on the island. Children of school age attended a one-room schoolhouse, complete with bell tower, until the early 1960s, when the last class of about six students was taught by a retired teacher who came from the mainland and spent the winter on the island. The one thousand-acre island could be confining, but a few full-time residents preferred the solitude. Very few new employees joined the workforce as there was seldom any turnover.

In 1952, the company supplemented the coal operation with a fuel oil station, consisting of two huge oil tanks for No. 6 bunker oil, each capable of holding forty-three thousand barrels, or 1.75 million gallons

each. Other buildings housed pumping equipment and heating equipment to warm the oil. As the workers never could predict when a large boat would stop for fuel, the facility ran twenty-four hours a day, seven days a week when the river was free of ice. Jim Fulton, a superintendent, only got off the island twice in sixty-nine days for one stretch during the winter of 1971-1972. In 1975, more than eleven thousand tons of coal and fourteen million gallons of oil were loaded from the dock.



*Coal on Lime Island, circa 1970s.*

*(Photo donated to the Archives of Michigan by John Q. Huey and David Huey)*

As Lime Island continued to refuel boats, propulsion technology on the freighters changed over to Diesel engines rather than the steam-powered craft fueled by coal or bunker fuel. In 1982, when the increasing use of No. 2 Diesel made the facility obsolete, Consolidation Coal Company (which had taken over the operation in the 1960s) closed the refueling operation and turned over the entire property to the State of Michigan for \$1. Permanent residents lost their jobs and homes and were forced to leave the island, leaving the buildings abandoned, only to be vandalized later.

The island was transferred to the DNR's Forest Management Division, which considered transferring all or part of the land to the Chippewa County Economic Development Corporation, which wanted to keep part of it and parcel out the remainder for resale. After field staff visited the island and suggested other possibilities, the Forest Management Division was directed to develop and implement a management strategy. While a master plan was developed in 1988, it was never funded or fully implemented. A 1987 Michigan Natural Resources Trust Fund grant funded some recreational improvements.

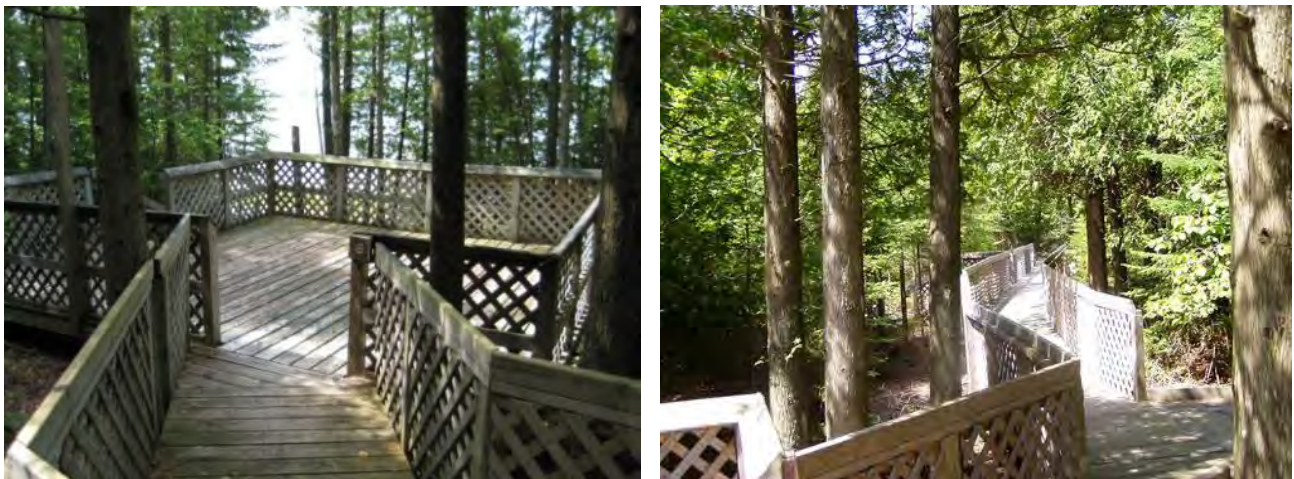
From the late 1980s to 2011 the island was run as a state forest campground, with long-term caretaker families hired to provide a presence on the island. Visitation was never more than a few hundred campers per year. Citizen volunteers, the National Guard, the Army Corps of Engineers and at-risk youth all worked on clean-up and improvement efforts. Through the 1990s this work included improvements to the parking area and boat launch ramp in Raber, development of a hiking trail system on the island,

restoration of the superintendent’s house and school house, septic and drain field work, island cleanup, construction of boardwalk and camping platforms and restoration work along the shoreline to cover the coal debris. In 1998 a solar energy system was installed to provide quiet, renewable power to the island. A Friends of Lime Island advocacy group was formed and, in association with DNR staff, held an annual open house on the island in the mid-1990s with boat service and scheduled presentations and events. During this era caretakers and volunteers set up museum-style period rooms in the superintendent’s house and schoolhouse.

A new management plan was completed by the DNR’s Forest, Mineral, and Fire Management Division in 2004. Goals of the plan were to establish Lime Island as a rustic state forest recreation facility, provide educational experiences through the interpretation of natural and cultural values and to enhance diverse recreation opportunities.

In 2011, the Natural Resource Commission transferred Lime Island to the Parks and Recreation Division to maintain and manage, making the recreation area Michigan’s 99<sup>th</sup> state park. In 2015, the 6.34-acre Karen’s Cabins site was purchased on the mainland and incorporated into Lime Island SRA.

Much of the above information is based on “The Legacy of Lime Island” by Scott Peters of the Michigan History Center, <http://seekingmichigan.org/look/2014/11/25/lime-island>. A timeline of the notable events in the history of Lime Island follows, however, the source and therefore accuracy of this document have not been verified.



*Camping platform and raised walkway*



## History of Lime Island Timeline

**Prehistory-** evidence of Native presence on the island has been found from thousands of years ago. The island was reported to have been known at one time as “pah-gah-dah-wahmin-is” (ball playing island) among the Ojibwe. A game similar to Lacrosse is believed to have been played at the south end of the island.

**1700s-** The island is explored by French voyagers and missionaries, with trading occurring during this time and into the 1880s. The island is shown on a French map as le Isle aux Plastre (found in Charlevoix’s “Journal d’un Voyage dans L’Amernigie Septenionnale” Vol. 5, Paris 1744)

**Late 1700s to early 1800s-** some of the lime kilns found on the island are believed to date back to this period.

**1842-** The Webster-Ashburton Treaty establishes the boundary between Canada and the United States, thereby establishing Lime Island as part of U.S.

**1843-** Island is included in the establishment of Chippewa County boundaries.

**1845-** First survey of Lime Island conducted by John Mullet; notations show three dwellings existing on the west shore of the island.

**1846-** The first recorded “owner-settler” of the island is Joseph Kemp; he obtained the deed from President Fillmore who signed it under the Homestead Act. The Kemp family owned the island for 37 years, reclaiming and developing the island, growing hay, wheat and potatoes, and trading with the Native Americans.

**1885-** Kemp sells the island to Lime Island Manufacturing (for \$5,200) who processed the quarried limestone by use of kilns; barrels were constructed on the island, filled with powered lime, and sold off the dock.

**1890-** Lime Island Manufacturing sells the island to Frances Davenport, who builds a 30-room hotel and a two-story cookhouse for use as a summer resort known as the St. Marys Club.

**1909-** *The Rome*, a wooden hulled steamer, went down when it caught on fire. The hull was filled with limestone, and to this day is used as a break-wall at the harbor entrance.

**1910-** Mr. Davenport sells the island to Pittsburgh Coal Company, who established a refueling dock for coal ships coming and going along the St. Mary’s River.

Around this time, the “big” house (also known as the Superintendent’s house or the Victorian house) was pulled across the ice to Lime Island from Pte aux Frenes, followed by 8 smaller houses.

The first coal dock superintendent to live in the house was Alfred E. Newton, with his wife and children. The existing hotel was remodeled into apartments for workers and their families.

**1912-** A one-room schoolhouse is built.

**1913-** The schoolhouse is opened, serving as a school for kindergarten through eighth grade, a church, social gatherings, a meeting place, and possibly a barber shop.

**1928-** A total of 14 families and their 17 children were recorded to live on the island at this time.

**1937-** The Pittsburgh Coal refueling dock is modernized by the addition of concrete facing.

**1940-** Alfred Newton retired and his family moved to Sault Ste. Marie.

**1941-** Percy Elliott and his family move to Lime Island, as Elliott takes over as coal dock superintendent.

**1948-** Pittsburgh Coal and Northwest Hanna Coal Co. merge. Service buildings of concrete block and steel are built, housing the superintendent's office, men's changing and locker room, showers, bunks for "on-call" shift personnel, the water supply system, two-diesel powered generators, laundry facilities and bathrooms for the women.

The old hotel is torn down.

A small diesel driven craft, *The Champion*, made daily trips to and from the island, ferrying workers and delivering mail and supplies.

**1949-** Percy Elliott resigns as superintendent and James Fulton takes his place. The hotel is replaced by three western facing cabins built from lumber processed at the island mill.

**1950-** The hotel cookhouse is demolished and a new house for the Fulton family built in its place.

**1951-** A new coal hopper and conveyor system is installed and put into operation.

**1952-** Two 1,750,000-gallon fuel bunker tanks are built and a boiler heating facility installed.

**1961-** Lime Island School is closed and its students begin attending schools in De Tour, Pickford, Goetzville or Sault Ste. Marie.

**1965-** Ownership of the island is transferred to Consolidated Coal Company.

**1972-** Only 8 families are reported to live on the island.

**1979** – James Fulton retired and in 1980 Henry Wojnarski became the acting superintendent.

**1982-** The Lime Island dock closes. Eventually the island is sold to the State of Michigan for \$1.00. At this time, all workers and their families were required to vacate the island. Initial purpose of the sale was to transfer the island to the Chippewa County EDC for development.

For the next several years the island sits unattended and was likened to a ghost town.

**1986-** Director Guyer, Regional Director Opolka, Senator Mitch Irwin and several others conduct an inspection of Lime Island, determining it to be incredibly valuable, and therefore recommending against transfer to Chippewa County. Director Guyer orders a management plan be developed and implemented

**1984-1986-** Vandalism and theft impact the island buildings. Management is handed to the DNR Forest Management Division, Sault Ste. Marie office. Buildings are put up for sale with no interest. A task force, under the leadership of Mike Paluda (then Regional Forest Manager for the UP) is assembled to develop the management strategy for the island.

In 1986, a site evaluation is undertaken by the EPA for potential Super Fund cleanup, resulting in the removal of barrels and transformers from the island.

A cultural resource analysis of the island was completed. The Michigan Bureau of History recommends that the collection of buildings is representative of the island's history and evolution, and that measures to prevent deterioration of these pieces should be taken. It was also recommended that an archeological survey be conducted before any major earthwork was undertaken.

**1987-** Clean-up of the harbor area and the town begins; reconstruction of the smaller docks is started, all of which are restored by 1989. Plans for the repair of the main dock are drawn up and submitted to the DNR. The Michigan National Guard is extensively involved in the clean-up operation.

**1988-** The Natural Resources Commission approves the Master Plan for Lime Island developed by the DNR Forest Management Division. At this time a Citizen's Advisory Community is developed but no money is allocated. The surface of the main dock is cleared and leveled.

**1989-** This is the first year that caretakers are established at the island. Jim and Pat Garrity were the first from June until August of this year, followed by Barbara and Doug Dimond, who cared for the island until 1997.

Repairs to the existing homes (from the 1950's) begin. Used furniture donated from the Traverse City Mental Hospital and the Old Grand Sable Forest Headquarters are used to fill the houses.

Restoration of the Superintendent's house is begun this year. The porch and steps are replaced, the roof shingled and the basement walls are fixed. The septic system for the maintenance building fails. While new tanks are installed the entire sewage system is inspected and plans for renovations are drawn up and approved.

Plans for water trail development began. A Phase I Archaeological Survey was completed by Michigan State University. The DNR builds an extended boardwalk with railing for the kiln sites which provides public access while maintaining protection of the sensitive area. A new parking lot is added at the Raber public launch site, barrier-free toilets are installed and the ferry dock at Raber is resurfaced.

**1990-** Preliminary Analysis of the Lime Island kiln site excavations are submitted to the DNR Bureau of History by Susan M. Branstner at Lake Superior State University.

1990 also saw the start of a hiking trail system. The system mirrors historic trails and provides connections to the kiln site boardwalk. The brick maintenance building receives rehabilitation as well, including new paint and the replacing of a section of wall.

**1991-** At-risk youth, volunteers, members of the National Guard and DNR staff assisted in the clean-up and improvement efforts. Five wooden camping platforms are also constructed.

The DNR, in association with Raber Township, hosted the first Lime Island Open House and Reunion on the third Saturday in August. The open house was held annually for several years.

**1992-** An Archaeological Investigation at the kiln site of Lime Island is prepared for the Bureau of History. This same year, restoration of the Lime Island School begins.

**1993-94-** Total renovation of the Superintendent's house (the "big" house) begins, after careful research. Some structural repairs are completed for the dock, and a maintenance agreement is signed with the Chippewa County Road Commission to maintain the access road to the dock. DNR is to keep responsibility for maintaining the dock and parking area.

**1994-** Michigan National Guard participates in a 15-day project stay on the island. During this time, members install a 1,000-gallon septic tank and drain field, close two landfills, finish the main dock repairs, plant grass, and conduct an island clean up. Efforts made to eliminate erosion on the west side of the dock, and habitat restoration supports the tern colony. Additional camping platforms are constructed.

**1995-** Old donated furniture is replaced with rustic cedar furniture. Handicap accessible features are placed on all houses overlooking Raber Bay.

**1996-** All cabins are paneled and boast cedar furniture. The Victorian House (the “big” house) is painted and renovated.

**1997-** Michigan State University students come to the island to study terns. It is noted terns did not maintain a nesting area on the dock until the DNR cleaned up the area.

In September, the Dimonds retire from caretaker positions after 9 years.

**1998-** Wood burning stoves are placed in 3 of the cabins, solar energy was installed for electricity generating purposes.

**1999-** The generators are removed and the island is successfully powered by the solar energy system. A septic system is installed for the keeper’s house.

**2005-** Lime Island Master Plan is updated by the Department of Natural Resources, and the Friend’s of Lime Island advocacy group is formed.

**2006–** DNR contracted with UP Environmental Services Inc. to remove waste from the site and install engineered cover in another waste area. This work, together with on-going inspection requirements, is documented in a Construction Summary Report completed by Malcolm Pirnie, Inc. in 2007.

**2011 –** Administration of Lime Island is transferred to Parks and Recreation Division, managed out of Straits State Park.

**2016 –** Administration is transferred to Brimley State Park.

## A.5 LAND OWNERSHIP

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Lime Island was first managed by the Michigan DNR’s Forestry Division. In 2011 it was transferred to the Parks and Recreation Division. The lands that comprise Lime Island SRA have been acquired by the state through two main funding sources. Often, conditions attached to the original funding source or other details of the property transaction encumber the future use or disposition of the land.

Below is a description of the funding sources associated with the recreation area (see also the Funding Source Map at the end of Appendix A).

### **Gift**

- In 1982, the Consolidated Coal Company gifted 932 acres of Lime Island to the State of Michigan.
- In 1994, the Chippewa County Road Commission conveyed ownership rights to the mainland (Raber) dock to the DNR.

### **Michigan Natural Resources Trust Fund (MNRTF)**

In 2015, 6.34 acres on the mainland in Raber, Michigan was acquired to serve as an accessory to Lime Island. The MNRTF was created by a state constitutional amendment in 1984, which required that oil, gas, and other mineral lease and royalty payments be placed into the Trust Fund, with proceeds used to both acquire and develop public recreation lands. To implement the constitutional amendment, the Legislature passed the Michigan Natural Resources Trust Fund Act of 1985 (P.A. 101 of 1985, Act 101). Land acquired using MNRTF must be used for public outdoor recreation opportunities in perpetuity.

In addition, one development project was funded via the MNRTF

<b>Grant #</b>	<b>Year</b>	<b>Project Name</b>	<b>Grant Amount</b>	<b>Project Description</b>
TF87-247	1987	Island Explorer Trail, Lime Island	\$300,000	To develop camping, pathway, boat pier conversion, boat tie-up, and conversion of an existing building to a camping shelter.

### **Mineral Rights**

The state owns the surface and mineral rights to all land within the recreation area.

### **Deed Restrictions**

In 2007 the Michigan DNR prepared use restrictions for the fuel tank area, a former open dump area and an area of oily waste with the intent of recording deed restrictions to prevent ground disturbance in these areas. However, although stone monuments mark these sites on the ground, there is no evidence that these deed restrictions were ever formally recorded.



## A.6 LEGAL MANDATES

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For all park General Management Plans, all legal mandates are identified that serve to further guide the management of the park or recreation area. For our planning purposes, the term “Legal Mandates” refers to not only to federal and state law, but also the administrative tools of “Policy” and “Directive” of the Natural Resource Commission, the Department, and the Parks & Recreation Division. Examples include Orders of the Director, Park and Recreation Areas State Land Rules and all other laws, commission orders, and rules or directives that apply to the park.

Specific to Lime Island SRA the following legal mandates have been identified.

### Federal Statute

<b>ENDANGERED SPECIES ACT, 1973</b>
This Act authorizes the determination and listing of species as endangered and threatened, and prohibits unauthorized taking, possession, sale and transport of endangered species.
<b>BALD AND GOLDEN EAGLE PROTECTION ACT, 1940 AND AMENDMENTS</b>
This Act prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald eagles, including their parts, nests, or eggs. The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." "Disturb" includes actions that may result in injury to the eagle, a decrease in its productivity or nest abandonment.
<b>NATIONAL HISTORIC PRESERVATION ACT, 1966 AS AMENDED</b>
This is the primary federal law governing the preservation of cultural and historic resources in the United States. The law establishes a national preservation program and a system of procedural protections which encourage the identification and protection of cultural and historic resources of national, state, tribal and local significance.

**State Statute**

<b>NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (NREPA) AND AMENDMENTS</b>	
<b>PA 451 of 1994, Part 5</b>	Gives the DNR authority to make rules to support its mission. This includes State Land Rules, Land Use Orders, Wildlife Conservation Orders, Fisheries Orders and Watercraft Control.
<b>PA 451 of 1994, Part 201 Environmental Remediation</b>	The purpose of this part is to provide for appropriate response activity to eliminate unacceptable risks to public health, safety or welfare, or to the environment from environmental contamination. It gives authority to the DEQ to coordinate activities and promulgate rules necessary to implement this part.
<b>PA 451 of 1994, Part 303 Wetlands Protection</b>	Requires a permit from the state (DEQ) to undertake certain activities in regulated wetlands, such as, dredging, fill, construction or drainage.
<b>PA 451 of 1994, Part 325 Great Lakes Submerged Bottomlands</b>	A permit is required for all filling, dredging, and placement of permanent structures (i.e., docks, piers, pilings, etc.) below the "ordinary high-water mark" and on all upland channels extending landward of the "ordinary high-water mark" of the Great Lakes.
<b>PA 451 of 1994, Part 419 Hunting Area Control</b>	Section 324.41901 establishes the powers of the Department to establish safety zones for hunting.
<b>PA 451 of 1994, Part 741 State Park System</b>	The department shall create, maintain, operate, promote, and make available for public use and enjoyment a system of state parks to preserve and protect Michigan's significant natural resources and areas of natural beauty or historic significance, to provide open space for public recreation, and to provide an opportunity to understand Michigan's natural resources and the need to protect and manage those resources.
<b>PA 35 of 2010, Part 741 Recreation Passport</b>	This act amended the Michigan Motor Vehicle Code to provide for a State Park and State-operated public boating access site "Recreation Passport" that a Michigan resident may obtain by paying an additional fee when registering a motor vehicle.
<b>PA 451 of 1994, Part 761 Aboriginal Records and Antiquities</b>	The state reserves the exclusive right and privilege to all aboriginal records and other antiquities including those found on the bottomlands of the Great Lakes.

## Orders

The following Orders apply to Lime Island SRA.

### Land Use Orders of the Director

#### **5.12 Certain state parks and recreation areas, requirements for use, certain conduct prohibited.**

Order 5.12. The following conduct shall apply to use of Michigan state parks and recreation areas: Lime Island State Recreation Area, prohibited conduct.

(23) Enter, use, occupy, moor, or dock onto, the southern half of the Lime Island coal dock, as posted, lying within T43N, R03E, Section 26 and T42N, R03E, section 35 between May 1 and September 1, except that boats may be moored on the eastern side of the entire coal dock for safety during high seas and storm events.

#### **5.16a Entry, use and occupancy of certain state parks, recreation areas and scenic sites, prohibited conduct.**

Order 5.16a (1) A person shall not do any of the following:

(a) Enter any of the following state-owned lands with a motor vehicle unless a valid Michigan recreation passport has been purchased and affixed to the vehicle:

(45) Lime Island RA, Chippewa County.

### Wildlife Conservation Orders

Wildlife is owned by all the people of the state of Michigan, and protection is administered and managed by the Michigan DNR. Hunting and trapping regulations including methods of take, bag limits, license quotas, and season dates are established by the Natural Resources Commission (NRC) and are described in the Wildlife Conservation Orders.

#### **7.1 Hunting or trapping in state parks or game refuges; designating where permissible; permits; hunting or trapping in state recreation areas.**

Sec. 7.1 (2) Except as otherwise provided in this chapter, state recreation areas shall be open to hunting and trapping during established seasons.

(3) Trapping in state recreation areas, except as otherwise provided in this chapter, shall be limited to those areas at least 50 feet outside of the mowed portions of developed picnic areas, swimming beaches, parking lots, boat launches, children's playground structures, campgrounds or headquarters' areas. A duffer-type, egg-type, or similarly designed foothold trap for raccoon may be used within the exempted area only by written permission by the designated department representative.

History: Eff. Mar 31, 1989; Am. 16, 1989, Eff. Aug 1, 1989; Am. 9, 2008 Eff. Jun 6, 2008; Am. 2, 2016, Eff. April 15, 2016.

### **State Land Rules**

Parks and Recreation Areas – State Land Rules are issued by authority conferred on the Michigan DNR by Section 504 of 1994 PA 451 MCL 324.504. The rules cover entry, use and occupation of state lands and unlawful acts.

## **International Waters**

International waters are open to paddlers, but if contact is made with the shore or sea bottom on the other side from where you originated, U.S. and Canadian Customs and Border Control regulations must be followed.

## **St. Marys River Area of Concern**

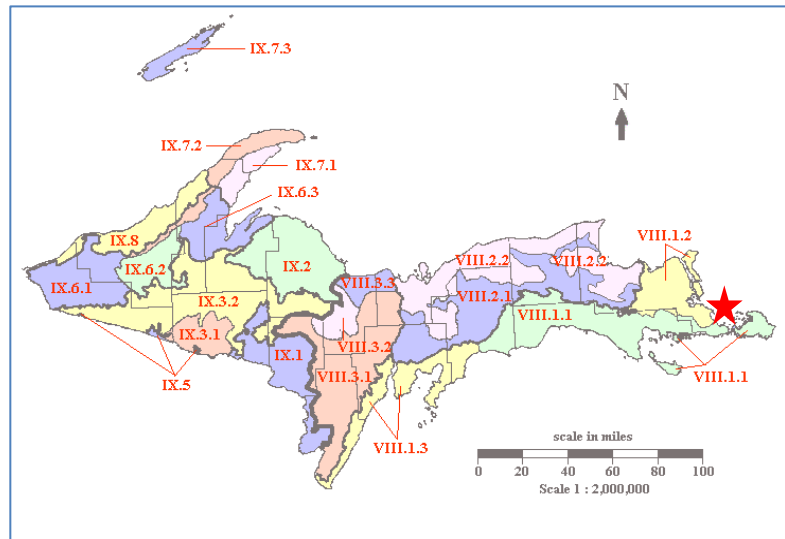
The St. Mary's River Area of Concern (AOC) extends approximately 70 miles from the head of the river at Whitefish Bay downstream to De Tour Passage. Impairment of water quality, sediment and biota has occurred due to contaminant from point source discharges from industry and municipalities on both sides of the St. Mary's River. Ten beneficial use impairments were initially identified, four of which have since been removed. Impairments that remain include degradation of fish and wildlife populations, restrictions on fish and wildlife consumption, restriction of dredging activities and loss of fish and wildlife habitat. A remedial action plan has been compiled by the Michigan Department of Environmental Quality.

## **Part 201 Priority List of Contaminated Sites**

Parts of Lime Island are currently listed as sites of environmental contamination under the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 201 (formerly known as the Michigan Environmental Response Act, 1982 PPA 307). These sites were recorded in 1985, citing a number of environmental concerns. Many of these concerns were appropriately managed via clean-up in the 1980s and 1990s, and a waste removal and site mitigation project completed in 2006. However, the large fuel storage tanks, which still contain a quantity of Bunker C Fuel, are still listed as a priority site (Facility ID 17000010). Four sites on the island are subject to periodic inspections to ensure safe conditions are maintained (see Appendix D).

## A.7 LANDSCAPE CONTEXT AND NATURAL RESOURCES

The following information was obtained from the Regional Landscape Ecosystems of Michigan, Minnesota and Wisconsin prepared by Dennis Albert in 1995, which classifies regional landscapes based on macroclimate, physiography, soil and vegetation. Lime Island State Recreation Area is located in sub-sub section VIII.1.2, Rudyard, in the Niagaran Escarpment and Lake Plain sub-section. This sub-subsection is described as clay lake plain; conifer and hardwood-conifer-dominated



uplands and wetlands; coastal marshes. This small sub-subsection of lake plain with fine-texture soils has been more intensively managed for agriculture than many other part of Upper Michigan.

### Climate

The average growing season ranges from 120 days in the north to 140 days in the south. Snowfall in this region ranges from 80-120 inches annually and precipitation is typically 32 to 34 inches. Extreme minimum temperature ranges from -32°F to -38°F.

### Water Resources

Lime Island itself contains no significant lakes or streams; however, it is surrounded by the St. Mary's River. The St. Mary's River forms the binational connecting channel between Lake Superior and Lake Huron, two of the largest freshwater systems in the world, with shared jurisdiction between the Canadian Province of Ontario and the State of Michigan. The region around the river in both countries has a strong tourism-based economy that is centered on sport fishing and other recreational activities on the St. Mary's River.

### Topography

Elevation on Lime Island ranges from 581 feet above sea level near the east and south coast to 666 feet at the highest point near the north central part of the island. Significant slopes ranging between 15 and 20% account for a majority of the north-western shoreline. The remainder of the island features gently rolling terrain and flattens out along the eastern shoreline.



## **Soils**

The clay soils are excessively drained to very poorly drained. The poorly and very poorly drained soils are located in depressions to the east, central and south parts of the island. Soil textures in these depressions are muck. Most other parts of the island contain stony loam and fine sandy loam. Most of the stony loam is somewhat poorly drained and the sandy loam is generally well drained.

## **Geology and Mineral Resources**

Bedrock, in the form of Silurian-age carbonates (limestone and dolostone), is near the surface across Lime Island, and exposures of the Burnt Bluff Group are reported on the north end of the island. There is minimal glacial overburden across the recreation area. Lime Island is considered part of the Niagaran Escarpment, which is prominently visible at Niagara Falls and other places along the southern shore of Michigan's Upper Peninsula. Due to the ability of the bedrock to resist mechanical erosion compared to adjacent shales, Lime Island remains a positive topographic feature following retreat of continental ice sheets of the last glacial period and creation of the Lake Huron basin.

There is no known oil and gas or metallic mineral potential beneath the island. Silurian carbonates are quarried for crushed stone, cement products, and other uses in many places across the eastern Upper Peninsula. Lime Island was explored for limestone and dolostone in the 1940s; several test wells were drilled by North Western-Hannah Fuel Company. There is good limestone and dolostone potential on the island, but there are a number of existing quarries in the region, including on Drummond Island, that supply comparable material of similar quality. The state owns the mineral rights beneath all of the land within the park boundary and the DNR has leasing authority over that acreage.

## **Historic (1800s) Vegetation**

According to the General Land Office survey (c. 1845), northern hardwood forests were found on over 50% of the Island, to the west. This cover type consists of a variety of tree species including maple, birch, ash and beech. The eastern portion of the island and to the south was recorded as being wetland. Part of the historical wetland cover is still present today.

## **Current Vegetation**

Most of the current land cover on the island consists of coniferous forest but there is also a sizeable portion of deciduous forest and some woody wetlands to the north. Much of the coastline is classified as "barren land". There are three important natural communities identified on the island.

Boreal Forest: conifer or conifer-hardwood forest type occurring on moist to dry sites characterized by species dominant in the Canadian boreal forest. An area of 574 acres of boreal forest has been mapped on Lime Island.

Great Lakes Marsh: herbaceous wetland community occurring along the shoreline of the Great Lakes and their connecting waterways. 65 acres of this natural community have been identified at Lime Island, although non-natives are locally common.

Limestone Cobble Shore: occurs along gently sloping shorelines of Lake Michigan and Lake Huron where the shoreline is studded with cobble and boulders and is typically sparsely vegetated. 22 acres of Limestone Cobble Shore has been identified on Lime Island. Non-natives are locally common and deer browse is prevalent.



Limestone Cobble Shore (Photo courtesy MNFI)

**Rare Flora and Fauna**

The information provided in the tables below was obtained from Michigan DNR GIS data. There has been no Michigan Natural Features Inventory (MNFI) report done for Lime Island at this time, other than the statewide natural communities report. The south third of the dock provides habitat for the largest known tern colony Great Lakes.

Fauna: Rare Animals present of likely to be present at Lime Island State Recreation Area		
Scientific Name	Common Name	State Status
<i>Coregonus artedii</i>	lake herring	T
<i>Sterna hirundo</i>	common tern	T
<i>Pandion haliaetus</i>	osprey	SC
<i>Haliaeetus leucocephalus</i>	bald eagle	SC

Flora: Rare Plants present of likely to be present Lime Island State Recreation Area		
Scientific Name	Common Name	State Status
<i>Gymnocarpium robertianum</i>	limestone oak fern	T

## **Wildlife**

The wildlife species noted on Lime Island has fluctuated some over the years. Previous recordings from the 1980's noted fox, mice, squirrels and snowshoes hare inhabiting the island. More recently, additional species have been observed including bear, moose, whitetail deer, ruffed grouse and nesting osprey and bald eagle. The wetlands along the St. Mary's River are extremely important for migrating waterfowl.

## **Fisheries**

The St. Marys River connects Lake Superior with Lake Huron and the rest of the Great Lakes. The river provides an important boost to the economy of the eastern Upper Peninsula through fishing effort and other recreational opportunities. Lime Island is located within the river's Raber Bay, which supports fisheries for walleye, yellow perch, northern pike, and muskellunge, as well as a seasonally popular cisco fishery.

## **Environmental Concerns**

The island's past industrial use resulted in some environmental concerns. Substantial clean-up and debris removal and remediation has been completed on the island. Four sites continue to be monitored to ensure environmental safety:

- Dock: maintain soil cover and structural integrity
- Former open dump area: maintain boundary markers and cover soils over buried inert materials
- Above ground tank area: maintain perimeter berm integrity, protect tanks and berms from vegetative damage and properly dispose of loose insulation.
- Engineered cover area: maintain cover soils, control vegetation and maintain boundary marker

## A.8 RECREATIONAL RESOURCES

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Lime Island State Recreation Area currently provides a variety of rustic recreation resources.

### Boat Launch

An undeveloped boat access site suitable for small craft or carry-down access is available on the mainland, with informal parking. A developed BAS with hard-surfaced ramp, parking and vault toilets is provided by Raber Township north of the DNR property.

### Harbor

Lime Island State Harbor provides day use and informal overnight dockage for those staying on the island. No modern amenities are provided.

### Trails

There are 7.1 miles of hiking trail on the island. The red trail runs the length of the island from north to south (approx. 2 miles) with other trails providing access to different locations along the lakeshore.

### Fishing

There is access to the St. Mary's River for fishing from the shore or visitors can enjoy fishing in deeper waters by boat.

### Hunting/trapping

The island is open to hunting and trapping during scheduled hunting seasons.

### Camping and Cabins

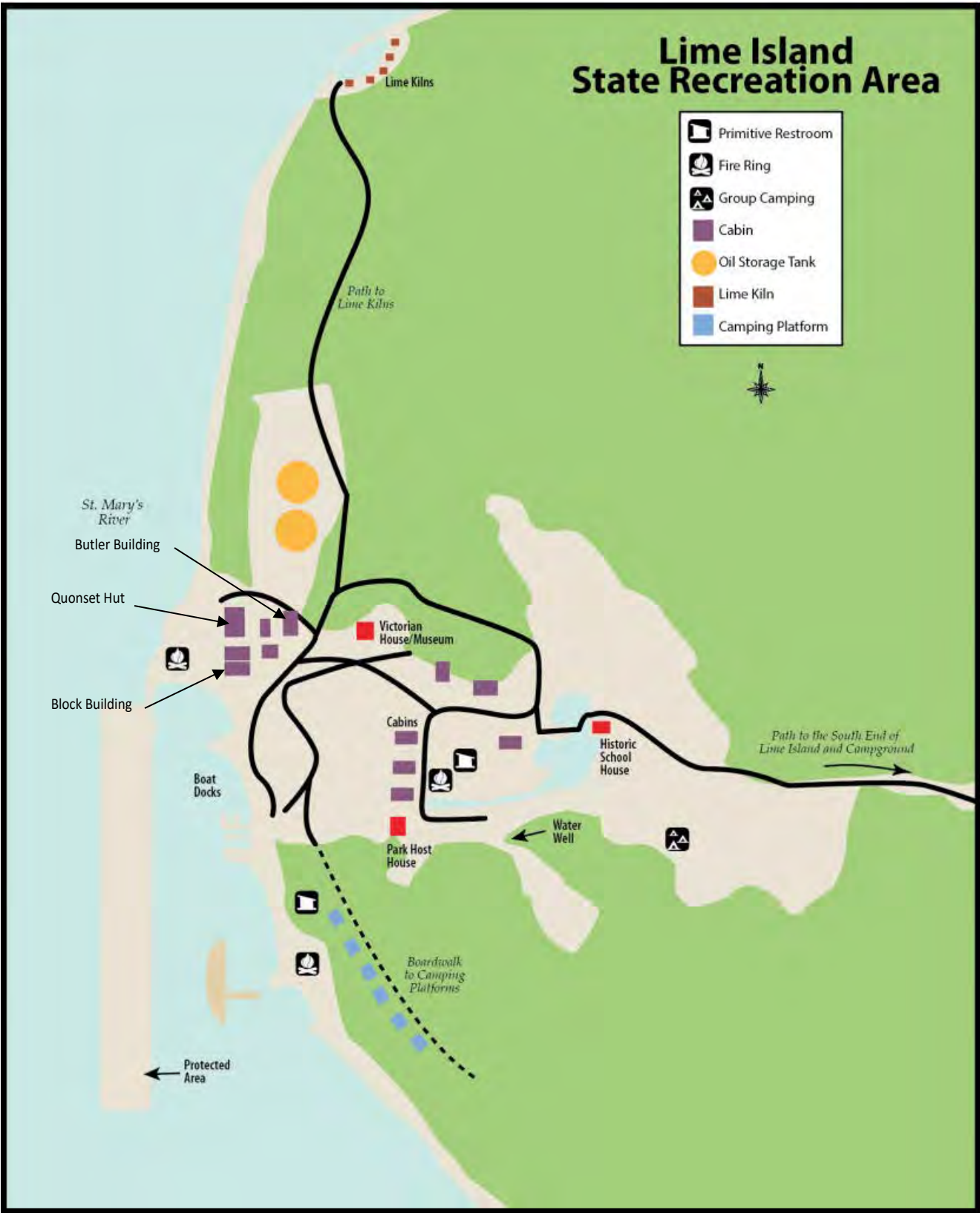
Lime Island SRA provides tent camping sites located on wooden platforms to reduce impacts on the surrounding environment. Six sites are located in the vicinity of the dock and three sites are on the southeast side of the island, which provides more seclusion. These remote sites can be accessed by boat or a 2.2 mile hike. Lime Island also provides six rental cabins that can accommodate between 4 and 8 people in 2-3 bedrooms. These cottages have limited electricity produced by solar panels, with water and portajohns located nearby. Cabins and tent camping sites are available from Memorial Day weekend through mid-September. There is also an open grass area available for use by organized youth groups.



*Lime Island cabins*







## A.9 HISTORIC AND CULTURAL RESOURCES

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Several archaeological sites have been identified on the island, some as a result of archaeological surveys conducted by Michigan State University (1989) and by Lake Superior State University (1990/91). The earliest site known on the island is the Knapper’s Ridge site, a pre-contact Native American site that may date as early as 3,000 years ago. At least one other pre-contact site location is known on the island as well. The remains of several lime kilns are perhaps the most prominent archaeological features on the island. The date of construction of the kilns is uncertain, but there is cartographic evidence to suggest they may have been built during the early 1800s. By the mid-19<sup>th</sup> century, fishermen and farmers began to take up residence on the island, and it is likely that there is archaeological evidence of those occupations. In addition, the wreck of the wooden freight steamer *Rome* lies in shallow water just off the island’s shore. Launched in 1879 at Cleveland, the vessel caught fire and sank in the St. Marys River in November of 1909.

Archaeological Site #	Description
20CH170	Lime Kilns
20CH229	Lime Island Settlement
20CH230	Knapper’s Ridge Site, Pre-contact Native American site
20CH231	BT Site, Pre-contact Native American site
20CH296	Dump, much of it removed and the rest buried
20CH350	Former house site
20USTM1	Wreck of the <i>Rome</i>



*Remains of Lime Island kiln (photo 2008)*

Many structures have been constructed on the island over time, associated with the use as a family farm, limestone processing facility, hotel and refueling dock for coal ships. The oldest known structures are the lime kilns on the north shore. In 1890 a 30-room hotel and a two-story cookhouse were built on the island by Frances Davenport. The hotel was torn down in 1948 and replaced by three western facing cabins, reportedly built using lumber salvaged from the hotel. The cookhouse was removed in 1950, with a new house built in its place. Two pre-1920s farmhouses were removed in after the DNR took ownership as they were not restorable or functional. Historic structures remaining on the island are listed in the following table.

<b>Structure</b>	<b>Approx. Date Built</b>	<b>Description</b>
3-Story Superintendent's House	Pre-1910	Victorian style home used as Superintendent's residence, brought across the ice to the island in 1912. Renovated in the late 1980s/early 1990s and currently houses artifacts of unknown origin.
Dock	1910	Constructed by Pittsburg Coal Co. Causeway bridge rebuilt, guard rail installed, and environmental debris removed/covered in late 1980s/early 1990s.
School House	1912	One roomed school house in operation from 1913 until 1961. Restored in early 1990s.
Quonset	1948	Contains pumps for fuel storage tanks. Currently used for equipment storage.
Block Building	1948	Former office building for company supervisors and shower facility for sailors. Currently lower level is used as a garage for service vehicles, equipment and storage
Butler Building	1948	Currently used as workshop and storage for tools, supplies and lumber
House #2 - 7	Post 1948	Former worker houses. Repaired and used as rental cabins
House #8	Post 1948	Former worker house. Repaired and used as park host house
Fuel Bunkers	1952	Two 1.75 million gallon fuel storage tanks used during the island's refueling era.



*Schoolhouse under renovation in 1991*



*Renovated Schoolhouse (Photo 2006)*

In 1986, a Cultural Resources Survey was conducted by the Michigan Bureau of History. The survey identified the superintendent's house and the lime kilns as having historical significance. In addition, the collection of buildings could be representative of the island's history and evolution. In 1993 an application was prepared to include the site on the National Register of Historic Places but was never submitted to the National Park Service.

Several hundred historical artifacts of unclear provenance are on display in Lime Island's two furnished historical structures, the Superintendent's House (Victorian House) and Schoolhouse. The Superintendent's House is furnished with a number of period rooms interpreted roughly to the 1930s. These were likely developed in the late 1990s or early 2000s by site hosts when the island was managed by DNR FRD. Some objects in these rooms are labeled with some historical information and the name of a donor (for instance, a sledge used to transport items across the ice) but most are not. The connections of these items to Lime Island is mostly unclear; many were likely purchased or donated for use as props to furnish these period rooms. The objects in the Superintendent's House are generally in good condition, with no evidence of mold, but the objects in the Schoolhouse have some water damage due to roof deterioration. No inventory exists of these objects and no documentation exists as to their legal ownership.

## A.10 EDUCATION AND INTERPRETATION

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Interpretation on Lime Island is very limited, including a few static wayside exhibits and a small amount of volunteer-developed historic information. Lime Island does not have interpretive staff or rangers to conduct programs.

A basic orientation panel and information on the Common tern constitute the majority of the outdoor interpretation.

The historic structures contain some interpretation completed by volunteer and host family efforts through the years. The Superintendent's House (Victorian House) is furnished as a series of period rooms with various objects and includes a few photo captions, artifact labels, and a printed island timeline. The Schoolhouse is furnished as a period room without written interpretation.

## A.11 PARK USE STATISTICS

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While day-use visitor numbers have not historically been measured, data is available for cabin, camp site and boat site use. In general (with the exception of 2017) use has increased steadily since 2004. Use data for overnight stays is illustrated in the tables below. Accommodations on the island are open from approximately June 1 through Labor Day.

Visitors that stay on the island come from all across the state, with residents of the Grand Rapids, Holland and Emmet County areas being some of the top visitors.

### Cabin Reservation Nights 2004-2006

	Reservation Nights by Year			Total Available Nights per Year
	2004	2005	2006	
<b>Cottage #2</b>	25	37	38	133
<b>Cottage #3</b>	13	18	41	133
<b>Cottage #4</b>	17	27	39	133
<b>Cottage #5</b>	47	42	52	133
<b>Cottage #6</b>	19	42	29	133
<b>Cottage #7</b>	29	22	29	133
<b>TOTALS</b>	<b>150</b>	<b>188</b>	<b>228</b>	

### Reservation Nights (Total for boat sites, cabins and camping) 2014-2019

	2014	2015	2016	2017	2018	2019
<b>Reservation Nights</b>	212	238	259	263	122	164
<b>Total Guests</b>	545	671	726	736	359	522

The majority of reservations are for the rustic cabins, with boat camping and tent camping fluctuating by season. July and August are the highest use months, with weekend reservations (including Monday and Friday) the most popular. As may be expected for an island location, reservations are heavily dependant on the weather .



## A.12 PARK RESOURCE MAPS

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
- Aerial Photograph
- Regional Recreation Opportunities
- Topography
- Soil Texture
- General Land Office Land Cover (C. 1800s)
- Land Cover (Michigan Forest Inventory data)
- Natural Communities

0 0.25 0.5 Miles



United States  
Canada

### Legend

-  Park Boundary
-  Country Boundary

*St. Mary's River*

0 0.05 0.1 Miles



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

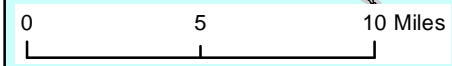
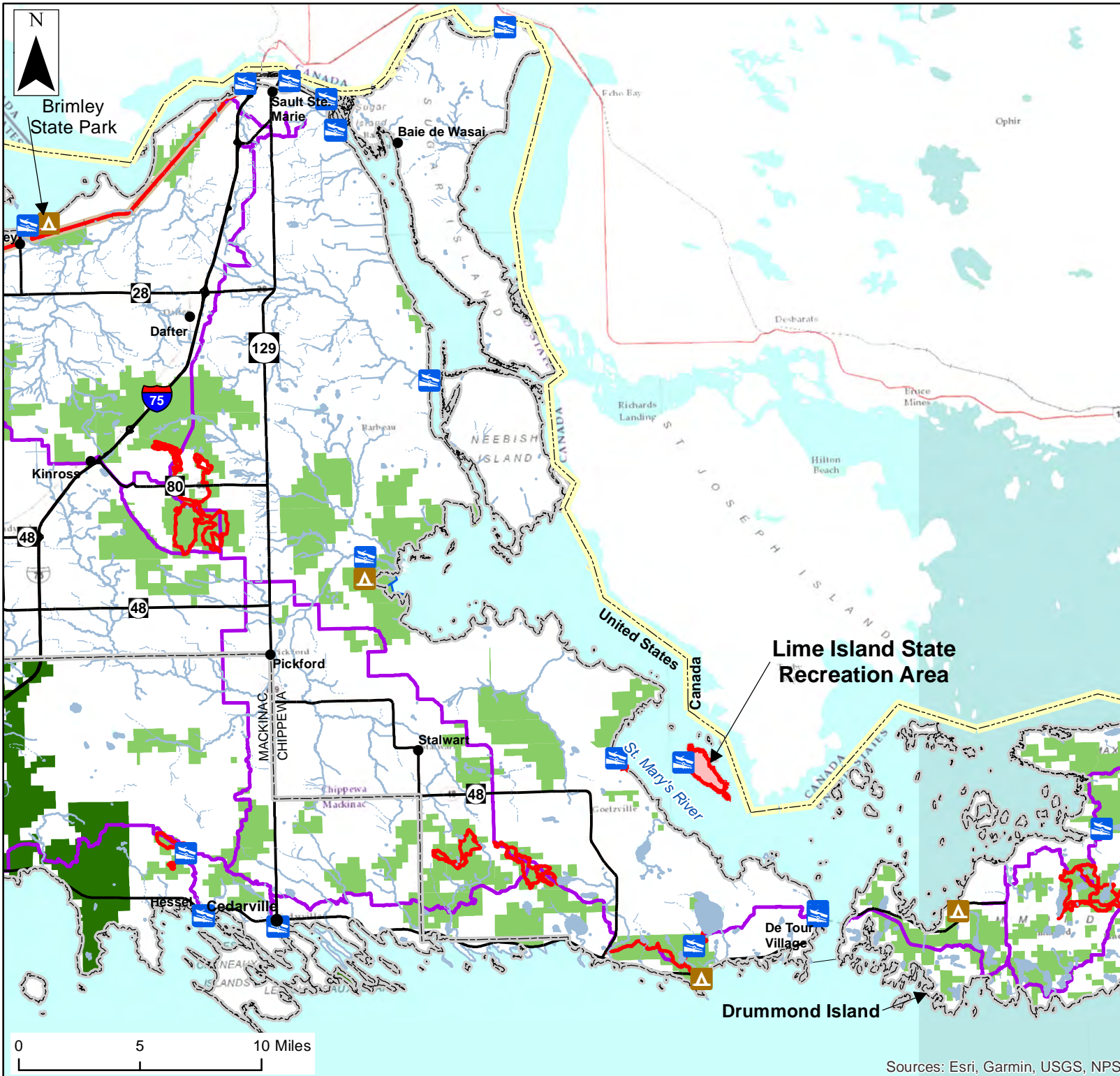
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# *Lime Island State Recreation Area Aerial*



Updated 06/28/2018





Sources: Esri, Garmin, USGS, NPS

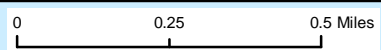
- Legend**
- Country Boundary
  - State Parks
  - State Forests
  - Hiawatha National Forest
  - County Boundary
  - Highway
  - ATV / ORV Trails
  - Snowmobile Trails
  - RailTrail
  - Boating Access Site
  - Public Campground

*Lime Island  
State  
Recreation Area*

*Regional Recreation  
Opportunities*






Updated 01/04/2019



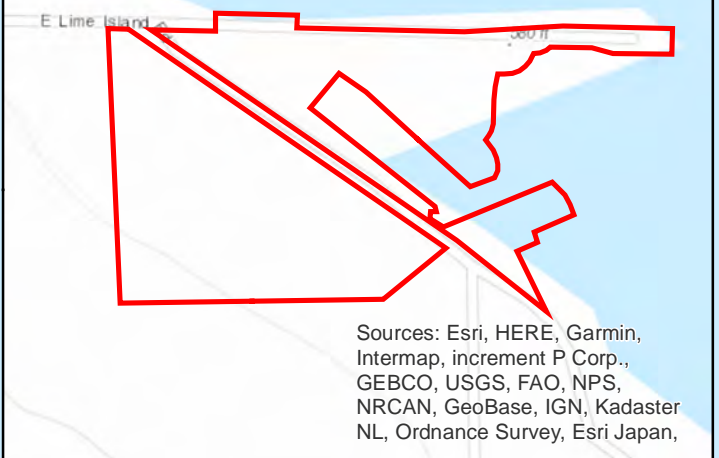
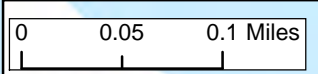
United States  
Canada

**Legend**

-  Park Boundary
-  Country Boundary
-  Contour Lines Feet

St. Mary's River

Lime Island Fry



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan,

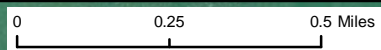
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

*Lime Island  
State  
Recreation Area  
Topography*



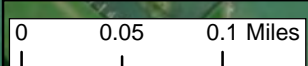
Updated 06/28/2018





United States  
Canada












St. Mary's River



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Legend**

-  Park Boundary
- Chippewa Ssurgo Soils**
-  fine sand
-  loamy fine sand
-  muck
-  mucky loamy sand
-  sand
-  stony fine sandy loam
-  variable
-  very gravelly sandy loam
-  very stony loam
-  Country Boundary

*Lime Island  
State  
Recreation Area  
Soil Texture*



Updated 06/28/2018



0 0.25 0.5 Miles



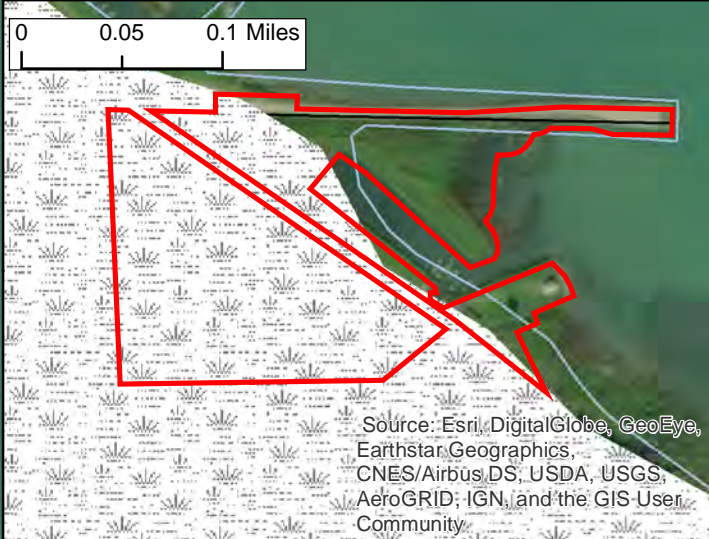
United States  
Canada

**Legend**

-  Park Boundary
-  Country Boundary
-  Northern Hardwoods
-  Wetland

*St. Mary's River*

0 0.05 0.1 Miles



Source: Esri, DigitalGlobe, GeoEye,  
 Earthstar Geographics,  
 CNES/Airbus DS, USDA, USGS,  
 AeroGRID, IGN, and the GIS User  
 Community

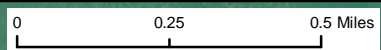
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,  
 USDA, USGS, AeroGRID, IGN, and the GIS User Community

*Lime Island  
 State  
 Recreation Area  
 GLO Land Cover  
 (1800s)*



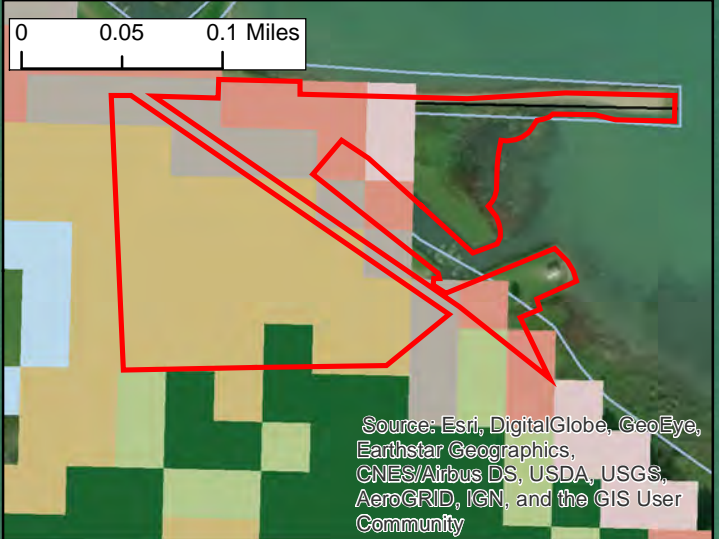
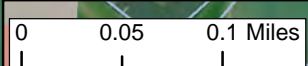
Updated 06/28/2018





Canada  
United States

St. Mary's River



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

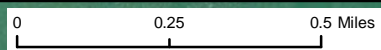
- Legend**
- Park Boundary
  - Country Boundary
  - Aspen
  - Northern White Cedar
  - Swamp Hardwoods
  - Grass
  - Northern Hardwoods
  - Oak
  - Balsam Poplar Swamp
  - Upland Brush
  - Non-Stocked
  - Developed, Open Space
  - Developed, Low Intensity
  - Barren Land
  - Coniferous Forest
  - Mixed Forest
  - Shrub/Scrub
  - Woody Wetlands

*Lime Island  
State  
Recreation Area  
Land Cover*



Updated 06/28/2018

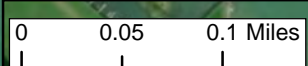




United States  
Canada

- Legend**
-  Country Boundary
  -  Boreal Forest
  -  Great Lakes Marsh
  -  Limestone Cobble Shore

*St. Mary's River*



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# *Lime Island State Recreation Area*

## *Natural Communities*



*This map identifies important natural communities identified by MNFI. None are recorded as being exceptional quality.*

Updated 01/04/2019



# Appendix B – Public Input Summary

Over the duration of the general management planning process, the planning team ensured a variety of opportunities for stakeholder and public input and feedback. These avenues included:

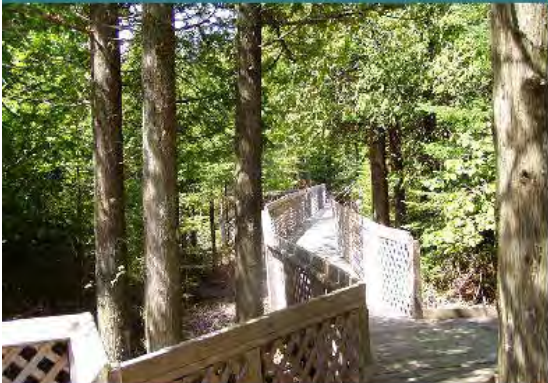
- Stakeholder Input Meeting – a meeting was held on October 18, 2018, at De Tour Village Hall, where participants representing various interest groups were asked to identify Strengths, Weaknesses and Opportunities regarding Lime Island State Recreation Area.
- On-line Public Input Survey – an online survey was developed to gather general information about park visitor demographics and their use of the recreation area as well as aspirations for improving features and amenities offered. The survey was posted and available for response on the DNR website throughout the month of October 2018. Two hundred and twenty-six individuals responded to the survey.
- Lime Island State Recreation Area Website – throughout the planning effort, a website was maintained that included resources about the general management planning process, including opportunities for comment and draft documents for review.
- Tribal Notification – A letter was sent to the Federally recognized tribal governments in the region, informing them of the management planning efforts and inviting them to meet with the representatives of the DNR to discuss any issues or concerns they may have relating to Lime Island State Recreation Area. No request for a meeting was received.
- Public Input Open House - A public input open house was held on July 25, 2019, at Raber Township Hall, to present and take comments on the draft General Management Plan. The meeting was advertised via a DNR press release and direct mailings were sent to individuals and organizations with a known interest in Lime Island State Recreation Area. The draft plan was made available for review on-line and comments could also be provided via Email or mail.

Detailed information regarding each of the input methods follows.





Michigan  
Department of  
Natural Resources



# You're invited!

## What

Lime Island State Recreation Area  
General Management Plan  
Stakeholder Input Meeting

## When

Thursday October 18, 2018  
10:00 am to 12:00 pm

Please RSVP to:

Debbie Jensen, PRD Planner  
[Jensend1@michigan.gov](mailto:Jensend1@michigan.gov)  
517-284-6105

## Where

De Tour Village Hall  
260 Superior St, De Tour Village, MI 49725

## About the plan

The Department of Natural Resources (DNR) Parks & Recreation Division (PRD) is in the process of developing a general management plan (GMP) for Lime Island State Recreation Area. The DNR uses general management plans to define a long-range planning and management strategy that protects the resources of the site while addressing recreation needs and opportunities. Public and stakeholder input is a critical component of the planning process.

## About the meeting

The Lime Island State Recreation Area GMP planning team cordially invites you to attend a stakeholder input meeting! The team hopes to gather valuable insights from your organization and other key players. This session will include a brief presentation from the DNR on the planning process and progress, followed by individual and group exercises to gather input to inform the plan.

## Input Survey

In addition, we are collecting input from park users via an online survey. You may share this link with any who may be interested.

<https://www.research.net/r/LIMEISLAND>

## Project website

[www.michigan.gov/parkmanagementplans](http://www.michigan.gov/parkmanagementplans)

For more information and to RSVP, please contact:

Debbie Jensen, PRD Planner  
[Jensend1@michigan.gov](mailto:Jensend1@michigan.gov)  
517-284-6105



**Stakeholder Input Meeting Summary**  
**October 18, 2018, 10am – 12pm**  
**De Tour Village Hall**

The planning team invited over 40 stakeholders, both individuals and community groups representing governmental, recreational, non-profit, and business/tourism interests, to participate in a facilitated input workshop held on October 18, 2018 at the De Tour Village Hall in De Tour, Michigan.

Representatives of the Michigan Department of Natural Resources (DNR) provided the stakeholders with a brief overview of Lime Island State Recreation Area and an outline of the general management plan process, timeline, and an explanation of the plan elements that their input would inform.

Input from the stakeholders to help inform the management plan was solicited through a Strengths, Weaknesses and Opportunities discussion, the results of which are presented below.

**Strengths:**

- Mulberry tree
- Teeter totter
- Lime kilns
- Sandy beaches
- Wildlife (birds, otter, nesting bald eagles, terns)
- Snorkeling & diving
- Herring fisheries (July)
- Kayaking (protected waters on backside)
- Beauty/scenic
- Sunsets
- Remote
- Cabins
- Location/access to fishing
- Historical aspect
- Recreation – boating, paddling, hiking
- Tent platforms
- Rainbows
- Photography

**Weaknesses:**

- Lack of transport to the island
- Boat mooring on mainland needs dredging
- Raber Twp. launch at capacity
- Poison ivy
- Docks need protection for boats from cement
- Sheet metal on docks bad for fish
- Cabins too rustic – lack running water
- No showers for overnight visitors
- Funding
- Insufficient staffing
- Upkeep of historic buildings
- Low use/high needs

### Opportunities:

- Solar power
- Native American history education
- Transportation to south end of island for less mobile persons
- Nature walks - signage
- Hiking trails, e.g. around the island
- Phase 1 archaeological study
- Sand beach access
- Open more buildings and provide information
- Historical plaques/information/kiosk
- Volunteers
- Partnerships -Twp./concessions
- Running water/power on mainland
- Ferry service from Raber dock
- Modern bathrooms in cabins (others disagreed)
- Outdoor solar shower
- Information on transportation (with level of experience required) – with reservation/website
- Signage on M-134 & exit for Raber 48/Raber Rd./129 Pickford
- State land access to fossil-rich parcel (state forest land on mainland)

### Further Comments:

Stakeholders provided the following responses to the question: *“What matters to me most about Lime Island State Recreation Area is.....”*

- “.....it’s remote”
- “.....It’s a beautiful, quiet place to visit”. –
- “.....As a representative of the Sault Naturalist Society, we are concerned about maintaining natural habitat. We are also interested in hiking trails for public access. We might be willing to provide and pay for signs along nature trails.”
- “.....Recreation destination for boaters and paddlers.”

Other written comments included:

- Need sign on M134 “Lime Island & Cabins” leading to Raber. Need another sign, Raber Bay, Raber Road. Boat needed for sight seeing and overnight camping.
- Best access for paddlers is not directly across from Raber. Difficult due to currents and freighters. Need sea kayaks.
- Looking forward to staying overnight, will try both cabins and tent sites.

**Attendees:**

<b>Lime Island State Recreation Area Stakeholder Workshop Attendees</b>	
<b>Name</b>	<b>Representing</b>
Dennis Dougherty	Island trails Committee – Soo.
Robert Gruschow	U.S. Coast Guard
Steve Durden	U.S. Coast Guard
Candis Collick	Drummond Island TA/Waterways
Susie Baker	DeTour Parks & Rec
Bob Warner	Resident
Mary Lou Harmon	Raber Bay Bar
Rich Harmon	Raber Bay Bar
Shirley VanAlstine	DeTour Museum Board
Dan	Raber resident
Floyd Baker	DeTour Parks & Rec
Angela Henley	Sault Naturalists
Chuck & Sherry Kruch	Self
Bob Vaught	DeTour Schools
Mary Rudnik	Raber Bay Landing
Tom Paquin	Eastern UP Advisory Council

**Planning Team Attendees:** Debbie Jensen (Park Management Plan Administrator), Corey Butcher (Unit Supervisor), Keith Cheli (Regional Field Planner), Eric Cowing (District Supervisor), Ray Fahlsing (Stewardship Unit Manager), Lisa Gamero (Cultural Resource Analyst), Suzanne Fischer (Museum Director) Theresa Neal (Park Interpreter), Paul Gaberdiel (Trail Specialist).



MICHIGAN DEPARTMENT OF

**NATURAL RESOURCES**

## *News Digest - Week of Oct. 8, 2018*

### Help shape future of Lime Island, one of Michigan's most unique state parks



Visitors to Lime Island State Recreation Area already know it's a gem. The park encompasses the 932-acre island in the St. Marys River about 2 miles from the eastern tip of Michigan's Upper Peninsula – plus about 6.5 acres on the mainland in the community of Raber.

Its location in the St. Marys shipping lane has helped shape the island's rich history as an industrial complex and refueling depot. Original structures that once supported the island's industrial use have been partially restored and repurposed as rental cabins or historical

interpretive buildings.

"The park's remote setting makes it a perfect spot for hiking, fishing, swimming, wildlife watching, hunting, watching the freighters and other activities," said Corey Butcher, park manager. "The quiet retreat offers a boat dock, cabins powered by solar panels, and tent camping on wooden platforms."

The DNR is developing a new general management plan for the recreation area and is encouraging those interested to share their opinions through an online survey (available through Oct. 31) at [michigan.gov/limeisland](http://michigan.gov/limeisland). The final plan will provide a strategic guide for long-range planning and management strategies that will protect the site's resources, while addressing current and future recreation and educational needs and opportunities.

This survey is one of several opportunities for the public to be involved. An open house (date and location will be announced for spring/summer 2019) will give people another chance to review and comment on the draft plan.

Learn more about the DNR's general management plan process at [michigan.gov/parkmanagementplans](http://michigan.gov/parkmanagementplans). For more on the Lime Island State Recreation Area survey or the proposed plan, contact DNR park management plan administrator [Debbie Jensen](#) at 517-284-6105.

### Introduction

**The purpose of this survey is to gather input from Lime Island State Recreation Area visitors. Your answers will help the Michigan Department of Natural Resources (DNR) develop a General Management Plan that will guide the future of the park.**

**This survey should take less than 10 minutes to complete. Your answers are confidential, unless you opt in to email notifications at the end of the survey, and will not be shared with any other parties.**

**At the end of the survey you will be directed to the project website that provides additional information on the general management plan process and opportunities for future input and comment.**



Your Visit

\* 1. How many times have you visited Lime Island?

- Once
- 2-5 times
- Never. What keeps you from visiting?
- 6-10 times
- More than 10 times

2. In what season(s) do you typically visit the island? Select all that apply

- Spring (March, April, May)
- Summer (June, July, August)
- Autumn (September, October, November)
- Winter (December, January, February)

3. How do you travel to the island? Select all that apply

- Own motorized boat
- Family or friend's motorized boat
- Charter boat
- Other (please specify)
- Sail boat
- Paddling watercraft

4. Where does the boating portion of your trip typically begin?

- DeTour State Harbor
- Other harbor
- Raber Township launch
- Other public launch
- Other (please specify)
- Own dock
- Family or friend's dock
- Other private dock (e.g. rental property)

Your Party

5. On your last visit, which of the following best describes your party?

- Individual
- Couple
- Family
- Other (please specify)
- Friends
- Family and friends
- Organized group or club

6. On your last visit, what age ranges were in your group (including you)? Select all that apply

- Under 5
- 5-12
- 13-17
- 18-29
- 30-39
- 40-49
- 50-64
- 65 or older

Activities

7. Please check ALL of the activities you have participated in on Lime Island.

- |   |  |
|---|--|
| <input type="checkbox"/> Beach/swimming                     | <input type="checkbox"/> Visiting schoolhouse                        |
| <input type="checkbox"/> Boating (motorized)                | <input type="checkbox"/> Visiting Superintendent's (Victorian) house |
| <input type="checkbox"/> Paddling (canoeing/ kayaking etc.) | <input type="checkbox"/> Nature viewing/ study                       |
| <input type="checkbox"/> Fishing                            | <input type="checkbox"/> Birding                                     |
| <input type="checkbox"/> Hunting                            | <input type="checkbox"/> Photography                                 |
| <input type="checkbox"/> Visiting lime kilns                | <input type="checkbox"/> Cabin rental                                |
| <input type="checkbox"/> Freighter watching                 | <input type="checkbox"/> Camping                                     |
| <input type="checkbox"/> Hiking                             |  |
| <input type="checkbox"/> Other (please specify)             |  |

8. What is the PRIMARY reason you choose to visit Lime Island?

9. What other attractions do you visit in the eastern Upper Peninsula when you visit Lime Island?

More About Your Visit

\* 10. Have you stayed overnight on Lime Island?

Yes

No

11. When you stay overnight on the island where do you typically stay?

Village campsites

South shore campsites

Cabin

Boat

12. How many nights do you typically stay?

1 night

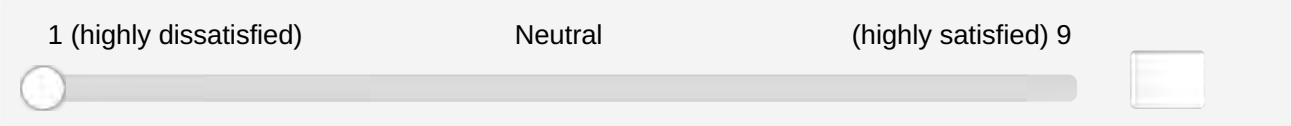
2-3 nights

4-6 nights

7 nights or more

13. Using the scale below, please rank how satisfied you are with the overnight facilities on Lime Island.

1 (highly dissatisfied)                      Neutral                      (highly satisfied) 9



14. What is the PRIMARY reason for your rating?

Non-island accommodations

15. Where did you stay when you visited the island?

- Own principal home
- Own second home
- Another's home/ second home
- Another state park
- State forest campground
- Other (please specify)
- Another public campground (federal, county, township etc.)
- Private campground
- Hotel/ motel/ rental property/ B & B
- State harbor/ marina
- Other harbor/ marina



Fishing

\* 16. Do you fish at Lime Island State Recreation Area? (either on the island or on the state-owned land in Raber)

Yes

No

17. How do you typically access the water for fishing? Select all that apply

State dock on mainland (Raber)

Shoreline on the island

Dock on island

Motorized boat

Shoreline on the mainland

Non-motorized boat

Other (please specify)

18. What do you fish for at Lime Island State Recreation Area? Select all that apply

Walleye

Cisco (lake herring)

Northern pike

Salmon/ Trout

Muskellunge

No particular species

Yellow perch

Other (please specify)

19. When do you fish at Lime Island State recreation Area? Select all that apply

Spring (March, April, May)

Summer (June, July, August)

Fall (September, October, November)

Winter (December, January, February)

20. Please provide any comments you may have regarding your fishing experience at Lime Island State Recreation Area.

Hunting

\* 21. Do you hunt/ trap on Lime Island?

Yes

No

22. What do you hunt/ trap? Select all that apply

White-tailed deer

Upland birds

Black bear

Waterfowl

Wild Turkey

Fur harvesting

Small game

Other (please specify)

23. Please provide any comments you may have about your hunting experience on Lime Island

Future ideas

24. The DNR has recently purchased 6 acres on the mainland in Raber and is considering different options for this site. What is the likelihood you would use the following facilities?

	Very likely	Likely	Neither likely nor unlikely	Unlikely	Very unlikely
Rustic campground (no electricity, no modern bathrooms)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Semi-modern campground (electricity but no modern bathrooms)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improved boat basin/ dock/ boat slips	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

25. If there was a seasonal, fee-based ferry or charter boat to Lime Island what is the likelihood you would use it?

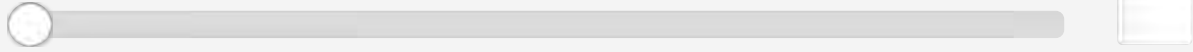
Very likely  Likely  Neither likely nor unlikely  Unlikely  Very unlikely

Comment (optional)

User Satisfaction and General Comments

26. Using the scale below, please rate how satisfied you were OVERALL with your MOST RECENT visit to Lime Island.

1 (highly dissatisfied) Neutral (highly satisfied) 9



27. What is the PRIMARY reason for your rating?

28. What, if any, changes would you make to Lime Island State Recreation Area?

29. What three words would you use to describe Lime Island to someone who has never visited the island?

One

Two

Three

30. Please share any other thoughts you may have on Lime Island State Recreation Area

31. Share a photo of your experience at Lime Island State Recreation Area! (Optional) By uploading a photo, you grant permission to the DNR to use the photo.

No file chosen

About Yourself

32. What is the zip code of your primary residence? If you live outside the USA please give your country of residence.

33. What is your age?

- Under 18
- 18-29
- 30-39
- 40-49
- 50-64
- 65 and over
- Prefer not to answer

34. If you would like to be kept informed with further information about the general amangement plan process for Lime Island State Recreation Area, including future opportunities to provide input, please leave your contact information below:

Name

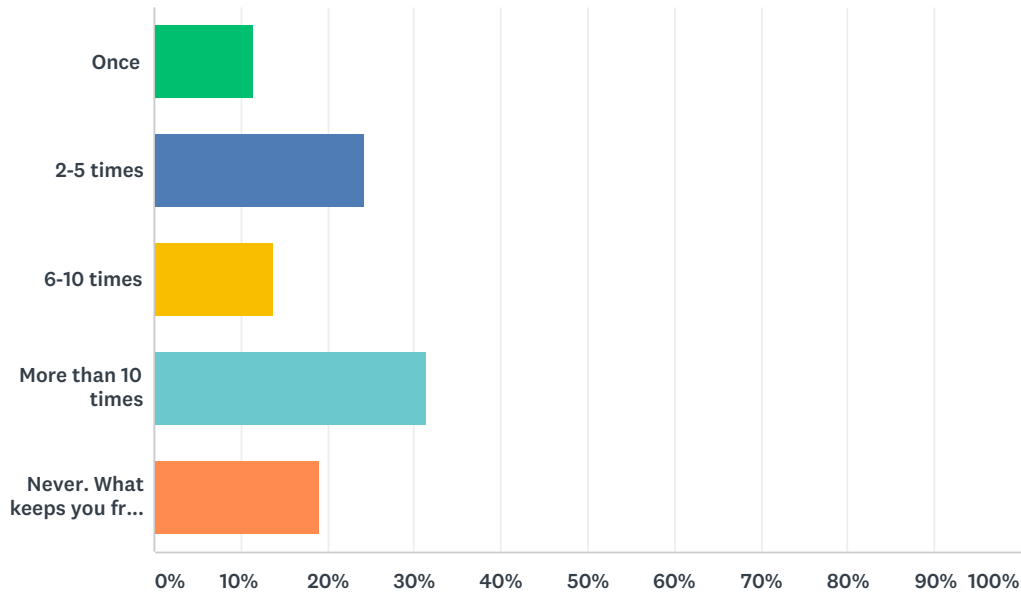
Email

Thank you

**Thank you for participating in the Lime Island State Recreation Area general management plan survey! Your input is appreciated. Visit [michigan.gov/parkmanagementplans](http://michigan.gov/parkmanagementplans) for more information.**

## Q1 How many times have you visited Lime Island?

Answered: 226 Skipped: 0



ANSWER CHOICES	RESPONSES	
Once	11.50%	26
2-5 times	24.34%	55
6-10 times	13.72%	31
More than 10 times	31.42%	71
Never. What keeps you from visiting?	19.03%	43
<b>TOTAL</b>		<b>226</b>

#	NEVER. WHAT KEEPS YOU FROM VISITING?	DATE
1	No boat	11/2/2018 9:57 PM
2	A way to get to the island.	10/22/2018 3:27 PM
3	Just learned about it. I would like to.	10/22/2018 9:30 AM
4	Always wanted to visit.	10/22/2018 9:29 AM
5	Never heard of it, now I want to!	10/19/2018 6:43 AM
6	Seems to rundown. Not good public relations as a representation of Michigan	10/18/2018 5:51 PM
7	I didn't know I could. Fish that area often.	10/18/2018 5:20 PM
8	it useto be nice	10/18/2018 2:57 PM
9	I didn't know about it until I heard about this survey! My answers will be for Drummond Island, which I visit annually, but that's when I would come to Lime Island.	10/18/2018 1:51 PM
10	I've never heard of it before	10/18/2018 1:25 PM
11	access	10/16/2018 7:32 PM
12	Transportation-a boat.....Been to the dock many times at Raber.	10/16/2018 2:27 PM

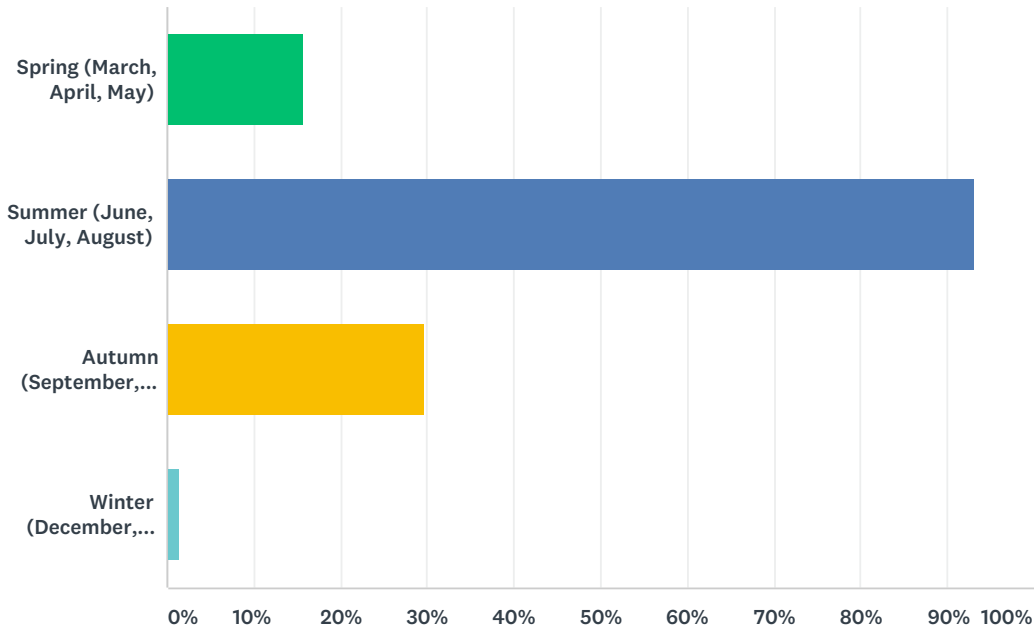


## Lime Island State Recreation Area User Survey

13	We don't have a boat	10/16/2018 1:23 PM
14	Transportation	10/16/2018 7:49 AM
15	I typically visit Drummond Island, and occasionally Harbor Island.	10/15/2018 8:26 PM
16	Just heard about it	10/15/2018 6:45 PM
17	Lack of boat transportation to Lime Island. I've looked on the internet but can only find fishing charters. There are no rates posted. The maps show a ferry line to Rabers Landing, but no listing. There are no charters from there. I can't find any boat rentals in the area either. Lime Island should be listed as accessible only to owners of boats capable of handling the currents of the St. Mary's River.	10/15/2018 6:09 PM
18	I don't have my own boat	10/15/2018 1:49 PM
19	Lack of availability of rental units	10/14/2018 8:13 PM
20	lack of access	10/11/2018 4:04 PM
21	Didn't know about it	10/10/2018 10:39 PM
22	access	10/10/2018 3:09 PM
23	Lived on Lime Is and grew up there	10/10/2018 10:35 AM
24	So many other great places to see in Michigan.	10/10/2018 8:16 AM
25	Simply haven't found the time.	10/10/2018 7:09 AM
26	Have heard of it but never think to go there maybe due to its proximity to my home.	10/10/2018 7:06 AM
27	accessibility	10/10/2018 6:49 AM
28	Never heard of it	10/10/2018 3:09 AM
29	I hadn't been aware of its existence.	10/9/2018 11:31 AM
30	I plan on a future visit	10/9/2018 9:06 AM
31	Didn't know it existed.	10/9/2018 8:19 AM
32	just learned of its existence from DNR newsletter	10/9/2018 8:15 AM
33	We love the remoteness and the water centric activities it offers. The cabins are the best	10/9/2018 5:23 AM
34	Transportation to the island.	10/8/2018 7:40 PM
35	Did not know about it	10/8/2018 6:09 PM
36	Didn't know about it	10/8/2018 5:11 PM
37	having a proper boat to get there.	10/8/2018 3:45 PM
38	Did not know about it	10/8/2018 12:56 PM
39	This is the first I have heard of this Park	10/8/2018 11:14 AM
40	didnt know about it, but think it sounds neat	10/8/2018 11:00 AM
41	Did not know it was available	10/8/2018 10:33 AM
42	accessability, need as boat	10/8/2018 10:23 AM
43	Hadn't heard about it previously. I will definitely visit now.	10/8/2018 10:19 AM

## Q2 In what season(s) do you typically visit the island? Select all that apply

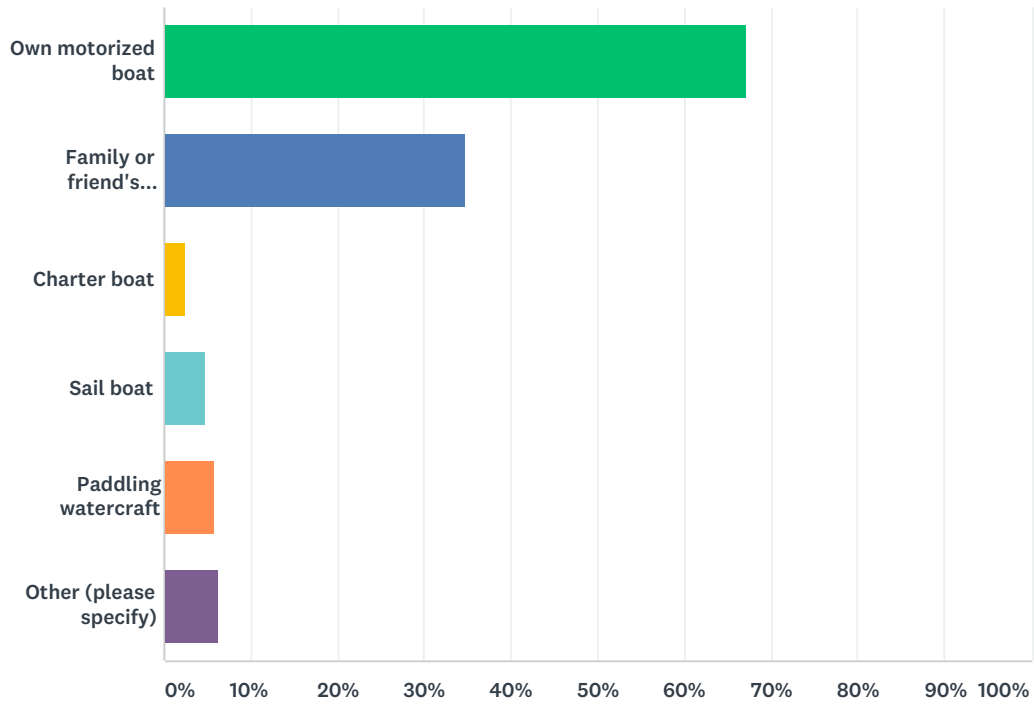
Answered: 205 Skipped: 21



ANSWER CHOICES	RESPONSES	
Spring (March, April, May)	15.61%	32
Summer (June, July, August)	93.17%	191
Autumn (September, October, November)	29.76%	61
Winter (December, January, February)	1.46%	3
Total Respondents: 205		

### Q3 How do you travel to the island? Select all that apply

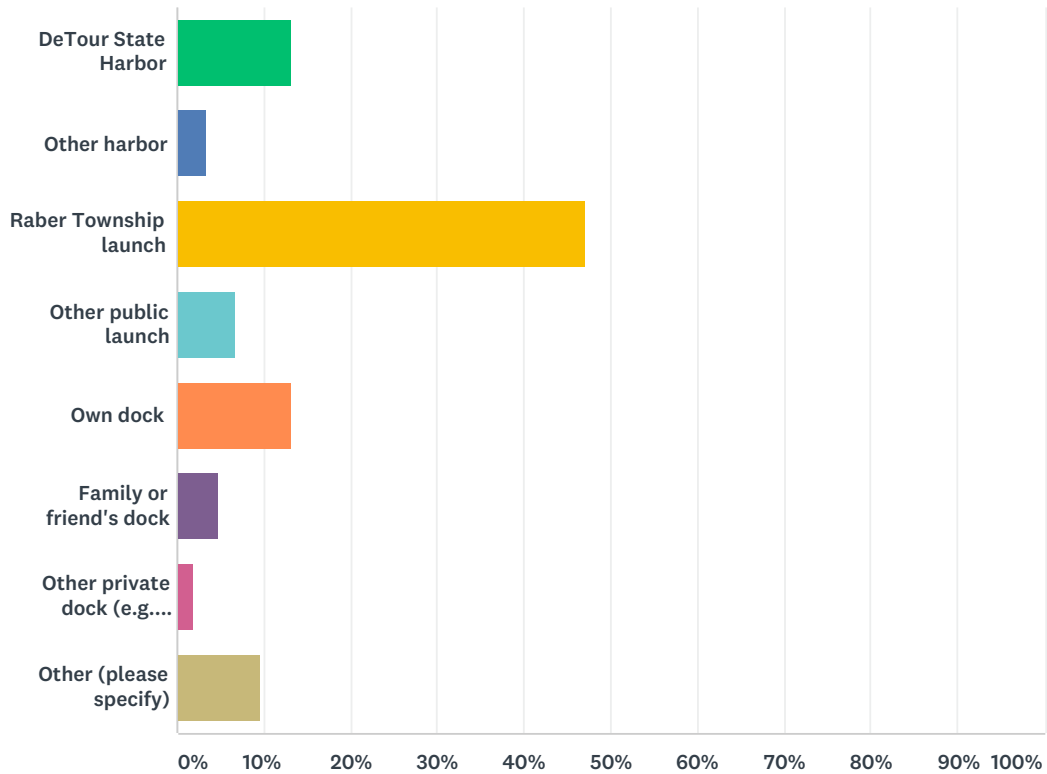
Answered: 207 Skipped: 19



#	OTHER (PLEASE SPECIFY)	DATE
1	Never been there.	10/22/2018 9:29 AM
2	Not sure	10/18/2018 1:25 PM
3	I used to live there so all apply	10/18/2018 10:20 AM
4	can't travel there as I don't have access to a boat and there is no good info on charter boats	10/15/2018 6:09 PM
5	Either 40 ft Sailboat or 14 ft runabout	10/15/2018 3:42 PM
6	The Champion in the 1950's	10/12/2018 4:30 PM
7	the old Lime Islander tug boat	10/11/2018 7:19 PM
8	Jet ski	10/11/2018 10:48 AM
9	never have	10/10/2018 3:09 PM
10	work boat	10/10/2018 6:37 AM
11	swim	10/10/2018 3:09 AM
12	Lime Island Ferry	10/9/2018 10:26 AM
13	In our group we have a sailboat fishing boat and numerous kayaks	10/9/2018 5:23 AM

## Q4 Where does the boating portion of your trip typically begin?

Answered: 206 Skipped: 20



ANSWER CHOICES	RESPONSES
DeTour State Harbor	13.11% 27
Other harbor	3.40% 7
Raber Township launch	47.09% 97
Other public launch	6.80% 14
Own dock	13.11% 27
Family or friend's dock	4.85% 10
Other private dock (e.g. rental property)	1.94% 4
Other (please specify)	9.71% 20
<b>TOTAL</b>	<b>206</b>

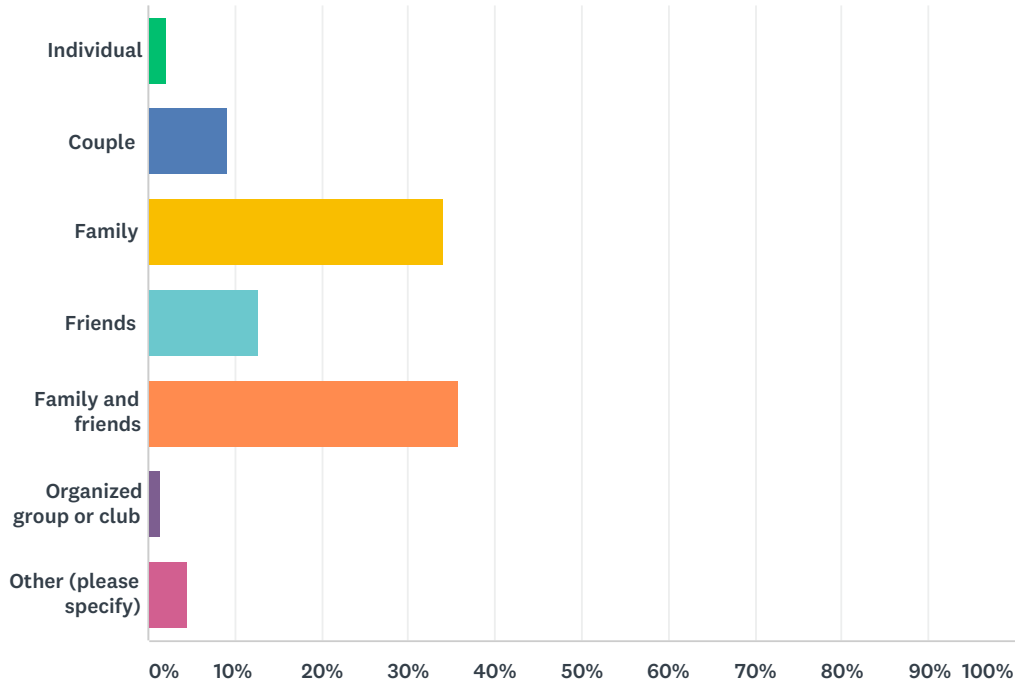
#	OTHER (PLEASE SPECIFY)	DATE
1	Sometimes Raber, sometimes DeTour, sometimes Barbeau	11/1/2018 10:15 AM
2	No sure	10/22/2018 9:29 AM
3	Drummond Island	10/19/2018 1:15 PM
4	Drummond Island	10/19/2018 8:54 AM
5	Drummond Island Yacht Haven	10/18/2018 3:01 PM
6	drummond island	10/18/2018 2:57 PM

## Lime Island State Recreation Area User Survey

7	Drummond Island Yacht Haven	10/18/2018 12:27 PM
8	Relative in DeTour	10/16/2018 5:25 PM
9	Paradise point rv park	10/16/2018 12:04 PM
10	Sault Ste Marie MI	10/15/2018 6:31 PM
11	Wherever there is an affordable charter boat dock	10/15/2018 6:09 PM
12	Either from Kemp Marina or Charlevoix MI	10/15/2018 3:42 PM
13	Drummond island	10/15/2018 11:06 AM
14	Drummond island	10/15/2018 6:25 AM
15	Drummond Island	10/13/2018 6:04 AM
16	Never been	10/10/2018 10:39 PM
17	sault harbor	10/10/2018 6:37 AM
18	My house	10/10/2018 3:09 AM
19	Sault ste Marie, mi	10/9/2018 12:31 PM
20	Nate's Marina	10/4/2018 4:43 PM

## Q5 On your last visit, which of the following best describes your party?

Answered: 196 Skipped: 30



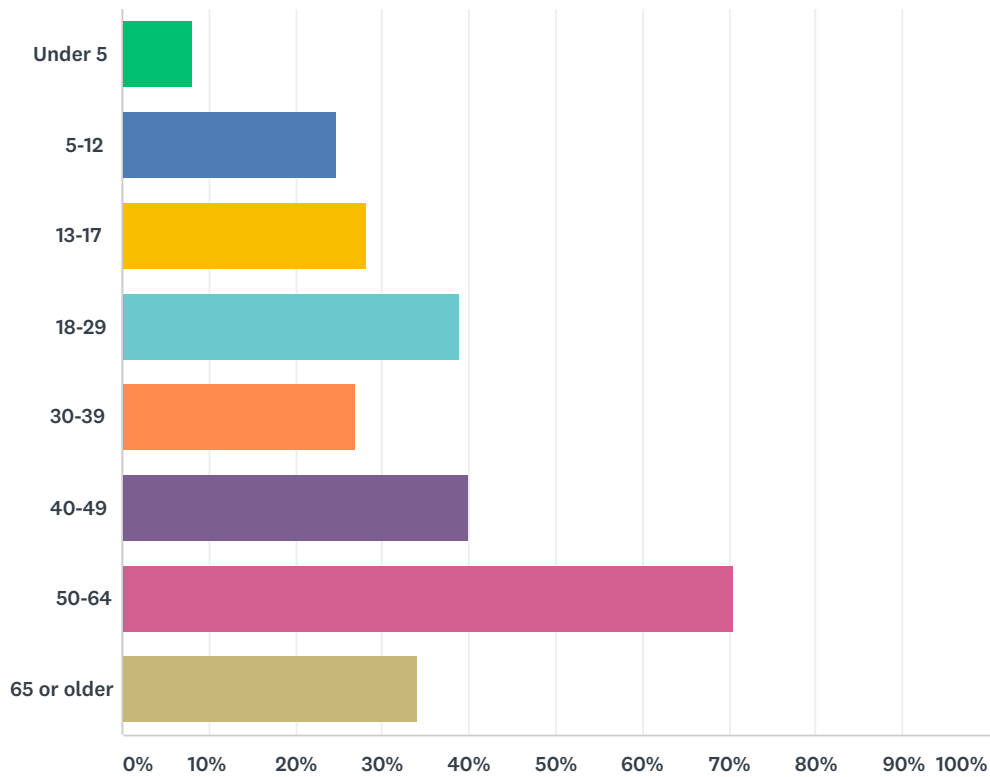
ANSWER CHOICES	RESPONSES	
Individual	2.04%	4
Couple	9.18%	18
Family	34.18%	67
Friends	12.76%	25
Family and friends	35.71%	70
Organized group or club	1.53%	3
Other (please specify)	4.59%	9
<b>TOTAL</b>		<b>196</b>

#	OTHER (PLEASE SPECIFY)	DATE
1	Never visited	10/22/2018 9:30 AM
2	Haven't been	10/19/2018 6:44 AM
3	family reunion	10/16/2018 7:33 PM
4	Couple & Friends that were a couple	10/15/2018 7:05 PM
5	Haven't been able to visit yet due to no available boat transportation	10/15/2018 6:10 PM
6	We lived on Lime Island when my Dad worked there. We attended the dedication	10/15/2018 1:50 PM
7	Never been	10/10/2018 10:39 PM
8	Family and Friends restoring the school house	10/10/2018 9:36 AM
9	work	10/10/2018 6:39 AM



### Q6 On your last visit, what age ranges were in your group (including you)? Select all that apply

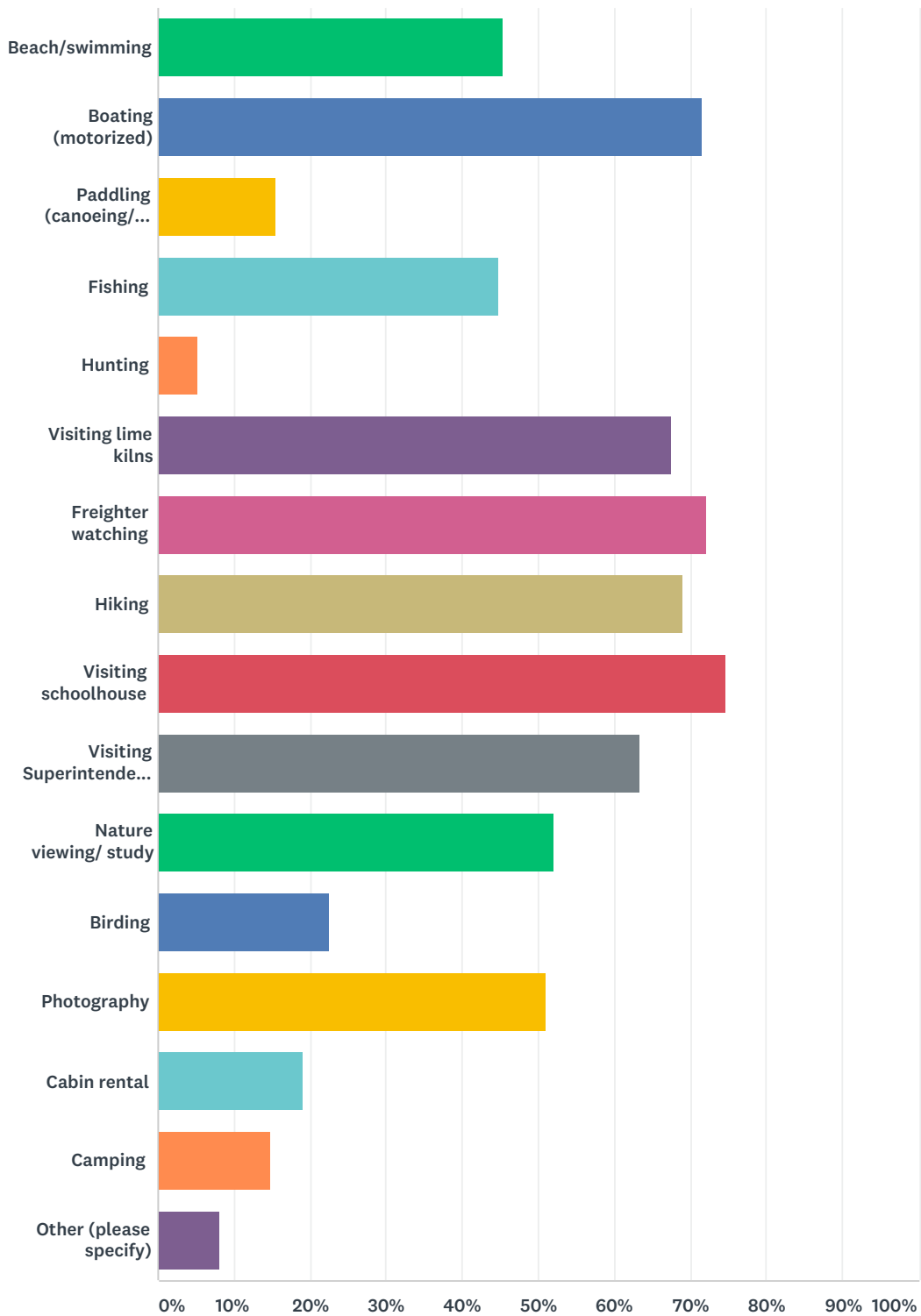
Answered: 85 Skipped: 0



ANSWER CHOICES	RESPONSES	
Under 5	8.24%	7
5-12	24.71%	21
13-17	28.24%	24
18-29	38.82%	33
30-39	27.06%	23
40-49	40.00%	34
50-64	70.59%	60
65 or older	34.12%	29
Total Respondents: 85		

## Q7 Please check ALL of the activities you have participated in on Lime Island.

Answered: 194 Skipped: 32



#	OTHER (PLEASE SPECIFY)	DATE
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## Lime Island State Recreation Area User Survey

1	Would like to hunt there, someday	11/1/2018 10:16 AM
2	Not yet	10/22/2018 9:31 AM
3	Cabins too costly for the amenities provided	10/21/2018 12:58 PM
4	Eating mulberries and looking for the sugarplum trees. There used to be several on the ridge of the sand pit near the school.	10/20/2018 6:16 AM
5	SCUBA/snorkeling	10/18/2018 12:28 PM
6	None I haven't been able to get there	10/15/2018 7:11 PM
7	Using the outhouse!	10/15/2018 12:06 PM
8	overnight on our boat	10/13/2018 7:56 AM
9	I plan on finishing the school house next year as soon as we put a roof on it. The roof needs to be done now., the tarp is shredding apart. Once that is done I will finish the windows and then do the inside	10/10/2018 9:39 AM
10	lunch break	10/10/2018 6:44 AM
11	sailing	10/9/2018 4:30 PM
12	Water skiing	10/9/2018 12:39 PM
13	Visiting relatives who lived on the island.	10/9/2018 10:33 AM
14	Unscheduled time with family	10/8/2018 3:15 PM
15	Picnic	10/5/2018 7:59 AM
16	Swimming back side	10/4/2018 5:14 PM

## Q8 What is the PRIMARY reason you choose to visit Lime Island?

Answered: 176 Skipped: 50

#	RESPONSES	DATE
1	Adventure	11/2/2018 9:59 PM
2	Base camp for fishing	11/1/2018 10:16 AM
3	Lived there 1966-72, enjoy going back and taking friends/family to show what it was like. Lots of family in the area, visit often.	10/31/2018 12:52 PM
4	Point of interest. Good protected harbor	10/28/2018 1:51 PM
5	I have been visiting this island for over forty years. I LOVE the history and wildlife.	10/28/2018 10:20 AM
6	Beautiful spot, not crowded, love the options to do on the island and the ability to take the boat to a lot of neat places nearby. Host is always wonderful, and the freighter viewing is unbelievable!	10/27/2018 8:38 PM
7	have visited lime island for 50 years I live in raber and at one time or another spent time there. I have to all most every part of the island the kilns are very important to me my grand father worked at them in the 1870s	10/26/2018 8:15 PM
8	A group of friends and family has been visiting Lime Island each year for over thirteen years. We love the tradition of boating to the island, the fishing, the hiking on the island, and the great kayaking.	10/24/2018 7:50 PM
9	Family history	10/22/2018 3:30 PM
10	limited access and people	10/22/2018 2:21 PM
11	The future possibilities.	10/22/2018 9:31 AM
12	Family history.	10/21/2018 12:58 PM
13	I love the views and the smells! I lived there when I was a child and enjoy refreshing my memory.	10/20/2018 6:46 AM
14	I grew up there.	10/20/2018 6:16 AM
15	Memories	10/19/2018 2:59 PM
16	Day trip from Drummond Island	10/19/2018 1:17 PM
17	Family day trip	10/19/2018 11:41 AM
18	because it is there	10/19/2018 10:38 AM
19	Freighters, fishing and the history of the island	10/19/2018 10:24 AM
20	Very unique, a wonderful destination for boating, historical value	10/19/2018 8:57 AM
21	Unique affordable close to home	10/19/2018 6:44 AM
22	Kayaking	10/18/2018 9:55 PM
23	history, ship watching and scenery.	10/18/2018 8:51 PM
24	Take a friend there who's never been in the UP before and to do more hiking and exploration.	10/18/2018 8:17 PM
25	To camp	10/18/2018 7:43 PM
26	Love it, history, and proximity	10/18/2018 6:39 PM
27	Remote and beautiful	10/18/2018 6:14 PM
28	Uniqueness of the island. And good fishing	10/18/2018 6:04 PM
29	To explore areas in the St Mary's river close to our home on Drummond Island	10/18/2018 5:55 PM
30	I would camp there	10/18/2018 5:21 PM
31	Secluded quiet area with freighter watching	10/18/2018 4:36 PM

## Lime Island State Recreation Area User Survey

32	We love it there. It feels unique and out of the way, plus its quiet and interesting.	10/18/2018 3:56 PM
33	Fun history	10/18/2018 3:45 PM
34	The uniqueness of the island.	10/18/2018 3:03 PM
35	I love visiting the kilns and school house. I like to bring our friends to see it.	10/18/2018 3:02 PM
36	it useto be nice the school useto be nice	10/18/2018 3:02 PM
37	Show visitors. Hike, enjoy history.	10/18/2018 2:43 PM
38	It's pristine and empty. Not a lot of places like that anymore.	10/18/2018 2:16 PM
39	It's beautiful and have so many memories growing up.	10/18/2018 2:05 PM
40	a quiet place to visit; not crowded; peaceful environment for visitors	10/18/2018 1:30 PM
41	To get away from crowds	10/18/2018 12:28 PM
42	like going home	10/18/2018 10:22 AM
43	Beautiful spot with much to hike and discover. Very peaceful and relaxed.	10/18/2018 7:45 AM
44	curiosity	10/17/2018 7:25 PM
45	Hiking. My husband and I own round island lighthouse and are neighbors to lime island. Many of our visitors visit lime island as well as round island.	10/17/2018 4:36 PM
46	It is a great getaway that is not really discovered by many people. Solitude within our group and nice hiking trails	10/17/2018 3:23 PM
47	We have a cabin in the area and just like to hike around	10/17/2018 3:18 PM
48	Exploring	10/17/2018 2:43 PM
49	It is neat to see the buildings and learn the history of the Island. It's a shame that some of the buildings need so much repair and some of the history is being lost!!	10/17/2018 2:37 PM
50	our great grandfather Newton was 1st superintendent, Our parents met there, our grandfather Oberle retired from Lime Island & as children we have many happy memories of days spent on the island	10/16/2018 7:43 PM
51	It's remoteness	10/16/2018 7:07 PM
52	A group of friends rotate state parks each year. When we went to lime island, we loved it so much that we went 2 years in a row.	10/16/2018 5:30 PM
53	Just to see what it was like	10/16/2018 12:07 PM
54	Beauty, and history	10/16/2018 11:54 AM
55	Local history	10/16/2018 11:08 AM
56	For beauty	10/16/2018 8:27 AM
57	Its uniqueness and history	10/16/2018 7:52 AM
58	when fishing it gives us and the dog a nice break just take a walk and relax.	10/16/2018 7:17 AM
59	My family has gone since we were little as a great day trip or for a couple nights. Such a beautiful place close to home.	10/15/2018 8:24 PM
60	Fishing	10/15/2018 8:16 PM
61	Small and peaceful, yet friendly and comfortable	10/15/2018 7:15 PM
62	Photography of nature, freighters, lime kilns, historical structures	10/15/2018 7:11 PM
63	We had just discovered it. We like to bike ride on paths and choose to attempt a visit to the beach by accesses the trails behind the then closed school house. We intend to further explore the island next summer.	10/15/2018 7:07 PM
64	Fishing	10/15/2018 6:53 PM
65	Freighter watching and to see what was on the island	10/15/2018 6:50 PM
66	Adventure	10/15/2018 6:33 PM

## Lime Island State Recreation Area User Survey

67	Love boating to the island every summer, the story behind the island never gets old. I enjoy hiking and site seeing. The peace and quiet is one thing I love.	10/15/2018 5:31 PM
68	Family history in the area	10/15/2018 3:47 PM
69	Nice place to visit for the day or overnight if traveling up or down the St Marys River.	10/15/2018 3:45 PM
70	It's a great part of local history. As well as great part of the fish biosystem in Raber Bay area.	10/15/2018 3:18 PM
71	Close to where I live	10/15/2018 2:40 PM
72	Get away	10/15/2018 2:11 PM
73	Such a beautiful location and scenery that has a great view of freighters going by with many people to talk to that you can meet on the island.	10/15/2018 2:06 PM
74	Childhood memories. I just have no way to get there.	10/15/2018 1:52 PM
75	It's a great place to escape too!	10/15/2018 1:13 PM
76	It is a great stop on the river to take a break and have a picnic.	10/15/2018 12:06 PM
77	My mother grew up on Lime Island in the 1950s and 1960s. This is a place that is very important to our family.	10/15/2018 12:03 PM
78	Boating and friends	10/15/2018 11:08 AM
79	My father grew up on Lime Island and worked there during his teenage years until it shut down.	10/15/2018 10:52 AM
80	My family has a lot of history there and we love to walk around and talk about it.	10/15/2018 10:52 AM
81	My grandmother and aunts and uncles lived there for six years so we would go visit from time to time to see it	10/15/2018 10:04 AM
82	Historical, natural quiet environment.	10/15/2018 9:12 AM
83	Explore	10/15/2018 8:37 AM
84	Great views and nice place to get away at.	10/15/2018 8:12 AM
85	Different location then we normally go and close by	10/15/2018 7:32 AM
86	The beautiful view, and an easy destination to get to on our boat.	10/15/2018 7:30 AM
87	Boating, beach, and swimming. I would probably do more on Lime if the poison ivy wasn't so prevalent.	10/15/2018 6:53 AM
88	Relaxing	10/15/2018 6:27 AM
89	The view, its very pretty there. Love the freighters.	10/15/2018 6:08 AM
90	I love the island and enjoy the views from there.	10/15/2018 5:44 AM
91	Beach and boating over night	10/15/2018 5:39 AM
92	Short trip from home	10/15/2018 5:33 AM
93	To take a day trip.	10/14/2018 9:45 PM
94	My Mother was born on Lime Island. My Grandmother was a teacher at the school house and Grandfather worked on the dock.	10/14/2018 10:09 AM
95	Fishing and Hunting	10/14/2018 7:59 AM
96	Beautiful quiet and historical area	10/13/2018 9:02 PM
97	natural beauty of the island	10/13/2018 12:53 PM
98	Beautiful, usually quiet island destination near our Drummond Island home.	10/13/2018 11:35 AM
99	It was a nice day-sail destination from my friend's dock.	10/13/2018 11:30 AM
100	Enjoy peace and solitude	10/13/2018 11:30 AM
101	Pretty place. Unique location as an island in river. Entire area along St. Marys river excellent for small boat paddling.	10/13/2018 10:43 AM
102	An island getaway that is rustic and not overused. The history, nature, and natural features are all attractions.	10/13/2018 10:12 AM



## Lime Island State Recreation Area User Survey

103	Convenient location while travelling by boat. Quiet overnight dockage.	10/13/2018 7:56 AM
104	Interesting destination, quiet.	10/13/2018 7:47 AM
105	curiosity	10/13/2018 7:23 AM
106	It's A fun place to stop at when out for a boat ride.	10/13/2018 6:07 AM
107	My family ancestors come from Lime Island and it is a very special place to me	10/12/2018 7:07 PM
108	To see where our Grandfather lived ( the center house in the front)	10/12/2018 4:35 PM
109	Unique island, options for water activities, cabins, limited number of people on the island so it doesn't feel like a "state park"	10/12/2018 9:27 AM
110	Just fishing	10/11/2018 7:21 PM
111	My grandparents and father lived there at one time. Lots of stuff was donated from the Stevenson family and its fun to take my family there for younger ones to get the family history.	10/11/2018 6:38 PM
112	The quiet serenity	10/11/2018 5:45 PM
113	It is a unique island with passing freighters, many recreational opportunities (something for everyone). The island offers relaxation, wildlife (although we've never seen any bear as the website says), pretty good fishing and great freighter watching. Sailing the St. Mary's River is different and great to see the sun go down. The cabins offer warmth and cover during bad weather and the solar roofs provide just enough power to warm up the water for dishes and run a cooler.	10/11/2018 3:59 PM
114	My grandparents Albert and Anna Stevenson and their children including my mother Eleanor resided on Lime Island, and both of my grandparents were employed there. My grandfather was the electrician on the island, and my grandmother was the teacher at the one room schoolhouse where my mother attended for several years before moving to Sault Ste. Marie to reside with her older sister Gertrude. Lime Island has a lot of sentimental value to me, but the island also has so much to offer those who want to visit the island, as it is so peaceful and beautiful with so much history. It would be a shame to destroy the opportunity for visitors to experience Lime Island.	10/11/2018 3:50 PM
115	Boating/Swimming	10/11/2018 1:23 PM
116	Nature and historical site, buildings	10/11/2018 12:08 PM
117	We have been visiting Lime Island at least once a year for over a decade. It is kind of a family tradition when we are all up in the UP. It makes for a nice day trip from our family cabin.	10/11/2018 11:56 AM
118	Father born there, grandmother was the first and the last schoolteacher, grandfather was supervisor of the building down by the water.	10/11/2018 10:52 AM
119	Campground Host for August	10/11/2018 10:46 AM
120	Love the area	10/11/2018 10:16 AM
121	My father, his parents, his siblings, aunts, uncles and cousins lived and worked on the island. We have a lifetime of their stories! This is a very special place to the 27 of us that visited Lime Island this past August.	10/11/2018 9:04 AM
122	We come to Lime Island to visit where my grandparents worked and where my father and his family grew up and attended the one room school. My grandmother was the school teacher on the island and my grandfather worked on the coal docks.	10/11/2018 8:35 AM
123	My grandparents were one of the original 13 families on the Island. My father was born on the Island. My family and I return to explore our ancestors' history, especially the schoolhouse as my grandmother was the first teacher on the Island over a century ago.	10/11/2018 7:36 AM
124	Relaxing	10/11/2018 5:20 AM
125	Rustic with a interesting history.	10/10/2018 10:41 PM
126	The history	10/10/2018 11:09 AM
127	Re visit my old home site and mulberries	10/10/2018 10:37 AM
128	close to home but rustic	10/10/2018 10:34 AM
129	Tout the Victorian House.	10/10/2018 9:52 AM

## Lime Island State Recreation Area User Survey

130	My mother and her family were born and raised there and our family is trying to protect the history of the Island and its building. So people have a better understanding of our history OF THE iSLAND	10/10/2018 9:39 AM
131	Because we hadnt been there before.	10/10/2018 8:09 AM
132	I love the island, we have always went and enjoyed front and backside, we grew up going to the island for cookouts up front to swimming and fishing!!! No place I'd rather be!!!	10/10/2018 7:16 AM
133	excellent place to stop for lunch. restrooms. talk with the public.	10/10/2018 6:44 AM
134	To hike	10/10/2018 6:05 AM
135	To enjoy the outdoors AWAY from tourists	10/9/2018 10:50 PM
136	Camping and enjoy the solitude- relax	10/9/2018 9:01 PM
137	We love the platform campsites. Close to home (Barbeau). Peaceful, rustic camping.	10/9/2018 6:36 PM
138	My mother grew up there and i visited as a child.	10/9/2018 6:30 PM
139	All the water activities, particularly sailing and kayaking, solar-powered cabins, remote gathering place, fishing	10/9/2018 4:30 PM
140	We meet up with fellow boaters for a night or two	10/9/2018 1:41 PM
141	Aimed at boaters and interesting history	10/9/2018 12:39 PM
142	Invited by others.	10/9/2018 11:39 AM
143	Just to be clear, I visited the island multiple times a year as a child and only once since owned by the DNR. I had 2 uncles and several cousins who lived on the island so we went there to visit, fish, enjoy family. My uncle drove the ferry boat, so we always loved riding with Uncle Louis on the Lime Islander.	10/9/2018 10:33 AM
144	Curiosity and pursuit of relaxation in an infrequently visited area of the world.	10/9/2018 8:20 AM
145	Unique, Fishing, comfort of a cabin.	10/9/2018 6:15 AM
146	The freighters	10/9/2018 5:27 AM
147	Great place	10/8/2018 8:33 PM
148	Great destination to get away from the busyness of life.	10/8/2018 8:23 PM
149	Look at upkeep of a historic island. Wife and relatives lived on the island and have contributed historic info and pictures.	10/8/2018 5:31 PM
150	Fishing herring and walleye	10/8/2018 4:39 PM
151	We have been going to Lime Island for years and we return each year because we always have an amazing time with family and friends and have incredible memories shared there together.	10/8/2018 3:43 PM
152	Hiking while on island. Frequently fish all around the island even if not specifically visiting "on" the island.	10/8/2018 3:32 PM
153	We have been taking out family to Lime Island every summer for the past 15 or 16 years. It bring our immediate family together without cell phones, the Internet or structured time. Making dinner over the campfire and watching the freighters pass is probably the overall highlight.	10/8/2018 3:15 PM
154	It is our favorite family vacation spot. We go every year, usually with two or more families and lots of friends! There is something for everyone. My dad takes naps and fishes, I read four or five books, mom goes hiking, my sister takes lots of fun pictures. We have really good fire-cooked meals. Overall, just a great place for everyone.	10/8/2018 3:06 PM
155	Variety of activities. Interesting story of the history of the island. Knowing people who lived on the island in the past. Doing some digging for artifacts with a college group.	10/8/2018 2:58 PM
156	The island is beautiful, and shows a different side to Michigan. We love watching the freighters. Its peaceful and the sunsets are amazing! Its a favorite family vacation.	10/8/2018 2:33 PM
157	Nice place to have a picnic and nice hiking trails.	10/8/2018 1:25 PM
158	Watching freighters! Peaceful nature!!	10/8/2018 12:38 PM

## Lime Island State Recreation Area User Survey

159	Location. The freighters and fishing options are terrific, but the low numbers of people are essential for enjoyment.	10/8/2018 12:31 PM
160	Seclusion, low number of other people, access to fishing	10/8/2018 12:27 PM
161	Freighter watching	10/8/2018 11:25 AM
162	herring	10/8/2018 11:23 AM
163	Unique setting and for the Cisco fishing	10/8/2018 11:09 AM
164	Recreational, fishing	10/8/2018 11:07 AM
165	Unique experience to get outdoors that is very family friendly to bring a toddler. Watching the freighters, seeing the historic sites, and fishing were our highlights.	10/8/2018 10:46 AM
166	It's such a unique spot to visit, and a good place to stop for the night on our boat.	10/8/2018 10:33 AM
167	I have a cottage North of Detour that we can see Lime Island from. And we often that guest out there.	10/8/2018 10:24 AM
168	Just sight seeing.	10/8/2018 10:24 AM
169	To see the old school house and other historical buildings on the island. My son and I often anchor off the back side of Lime and swim in the shallows - the minnows there nibble at dead skin on your feet. My son gets a kick out of it.	10/8/2018 10:23 AM
170	Remoteness and freighter watching.	10/8/2018 10:20 AM
171	Rest and Relaxation	10/6/2018 11:54 AM
172	Unique destination	10/5/2018 3:21 PM
173	Curiosity - Historical significance	10/5/2018 2:02 PM
174	To visit and explore this unique island.	10/5/2018 7:59 AM
175	Like the solitude , trails, old buildings,camping.	10/4/2018 5:14 PM
176	Location and uniqueness	10/4/2018 4:44 PM

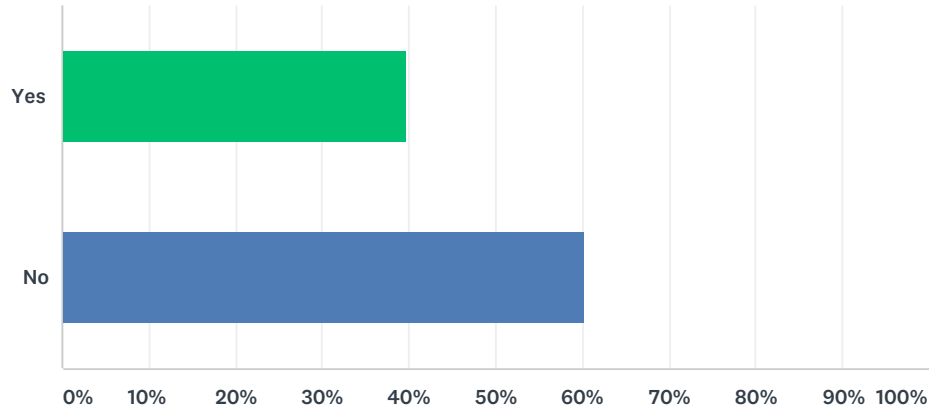
Q9 What other attractions do you visit in the eastern Upper Peninsula when you visit Lime Island?

Answered: 150 Skipped: 76



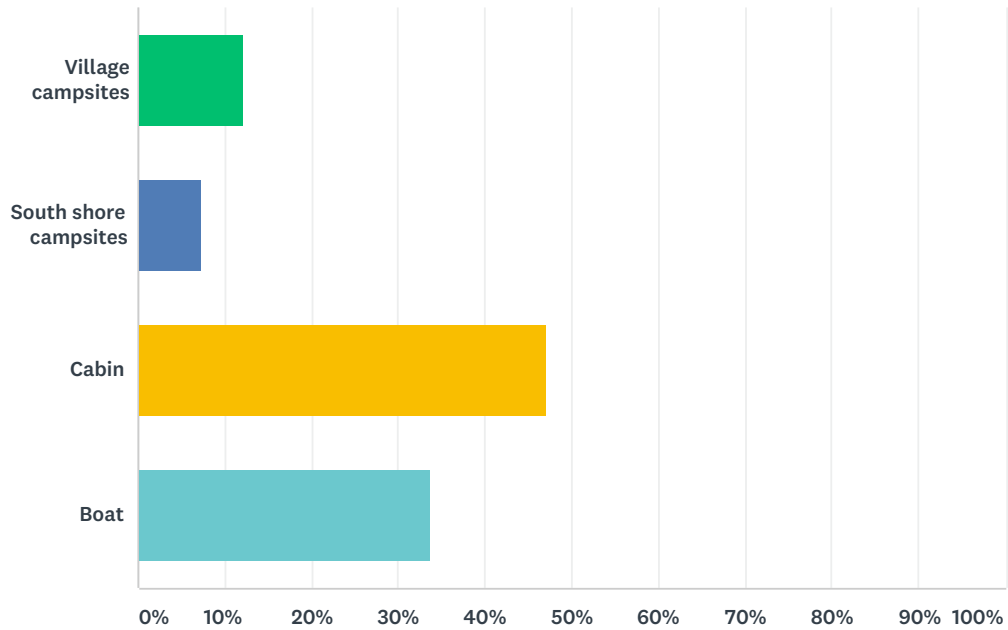
## Q10 Have you stayed overnight on Lime Island?

Answered: 214 Skipped: 12



## Q11 When you stay overnight on the island where do you typically stay?

Answered: 83 Skipped: 143

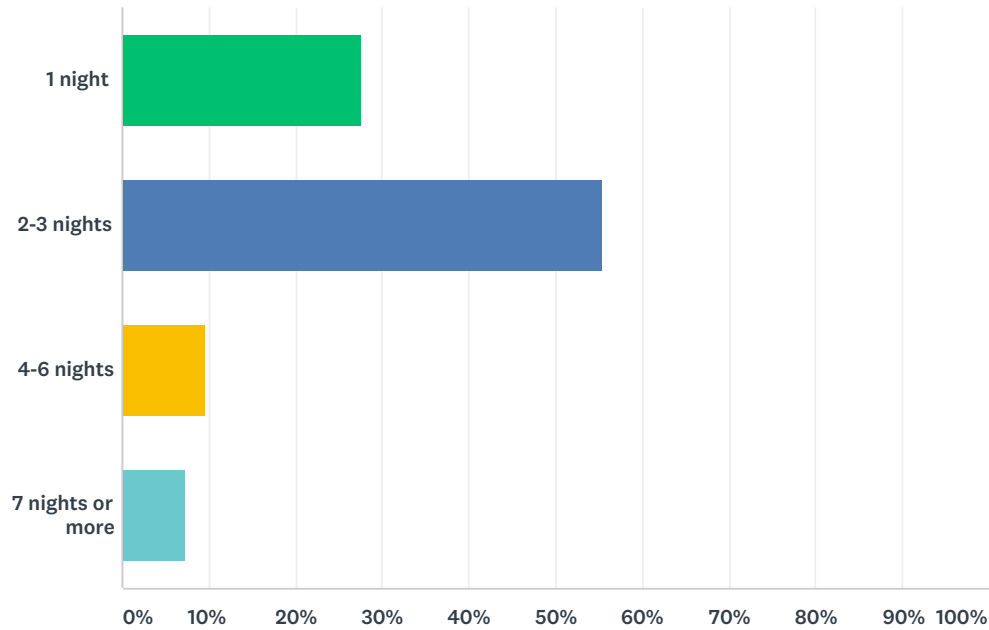


ANSWER CHOICES	RESPONSES
Village campsites	12.05% 10
South shore campsites	7.23% 6
Cabin	46.99% 39
Boat	33.73% 28
<b>TOTAL</b>	<b>83</b>



## Q12 How many nights do you typically stay?

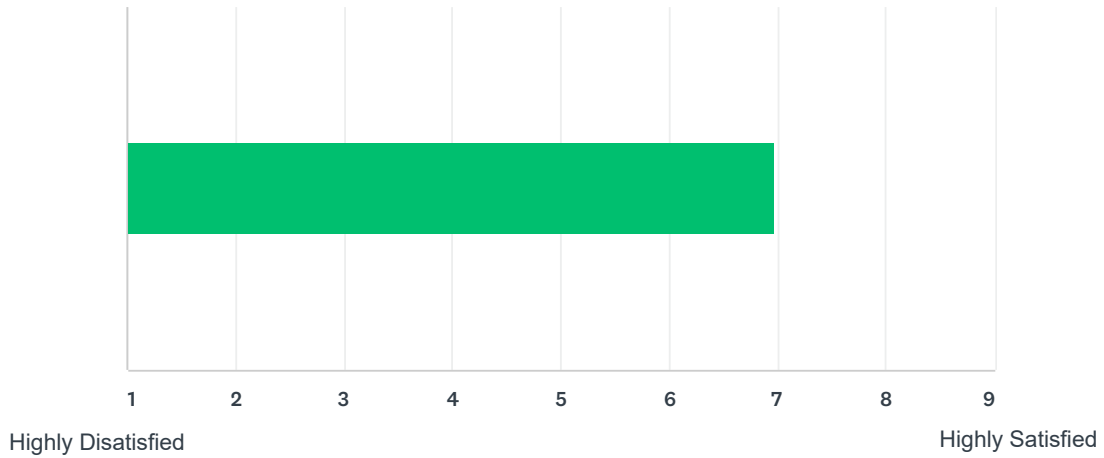
Answered: 83 Skipped: 143



ANSWER CHOICES	RESPONSES
1 night	27.71% 23
2-3 nights	55.42% 46
4-6 nights	9.64% 8
7 nights or more	7.23% 6
<b>TOTAL</b>	<b>83</b>

### Q13 Using the scale below, please rank how satisfied you are with the overnight facilities on Lime Island.

Answered: 79 Skipped: 6



ANSWER CHOICES	AVERAGE NUMBER	TOTAL NUMBER	RESPONSES
	7	551	79
Total Respondents: 79			

BASIC STATISTICS					
MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	
1.00	9.00	8.00	6.97	2.02	

How many times have you visited?	Where do you typically stay?	How many nights do you typically stay?	Rank*	What is the PRIMARY reason for your rating?
> 10 times	South shore campsites	7 nights or more	1	
> 10 times	Boat	2-3 nights	1	No dockage with water and power for larger boats.
> 10 times	Boat	1 night	2	Everything is in disrepair.
2-5 times	Cabin	2-3 nights	3	Outhouse were full to the top. I haven't been back in several years.
> 10 times	Cabin	7 nights or more	3	The place is falling apart and needs a lot of work. Lime Island is also a historic site that is not well explained or even know about!
2-5 times	Boat	1 night	3	We would like electricity for our boat
> 10 times	Boat	1 night	4	I have only stayed on a personal boat
> 10 times	Boat	1 night	4	Washroom improvement. Could be cleaner and availability beyond Labor Day to October 1.
6-10 times	Village campsites	4-6 nights	4	
> 10 times	Cabin	2-3 nights	4	Restroom facilities and food cooking and storage could be improved. What a wonderful place if funding was available.
> 10 times	Boat	1 night	5	
> 10 times	Boat	2-3 nights	5	Haven't actually stayed in the facilities
> 10 times	Boat	2-3 nights	5	Not enough space for larger boats and cost for the amenities you get are not that great.
6-10 times	Boat	1 night	5	
> 10 times	Boat	2-3 nights	5	Dock are awful
> 10 times	Cabin	2-3 nights	6	The cabins are rustic, but they work. We have stayed in tents and in a boat in the harbor, too.
> 10 times	Cabin	2-3 nights	6	We love the location but the cabins are in need of repair.
> 10 times	Boat	2-3 nights	6	Would have been 9 until recently. This summer just past we were shocked and disappointed at the disrepair. Many areas were inaccessible, i.e., house/museum and school. Docks are in a dangerous state of disrepair. We have always loved Lime Island and will continue to visit there - hopefully to see it looking good again.
2-5 times	Cabin	2-3 nights	6	Wasn't enough rooms for a big family
> 10 times	Boat	2-3 nights	6	Docks need repair.What an excellent place to install floating docks off the cement pier.Maybe shower and bath facilities in the old housing building.
6-10 times	South shore campsites	1 night	6	Great place but needs bathrooms.
2-5 times	Village campsites	2-3 nights	6	Low key, quiet

\*Respondents ranked satisfaction with overnight facilities on a scale of 1 to 9, where 1 indicates highly dissatisfied and 9 indicates highly satisfied

How many times have you visited?	Where do you typically stay?	How many nights do you typically stay?	Rank*	What is the PRIMARY reason for your rating?
> 10 times	Cabin	2-3 nights	6	The rating could easily be a 10, Recent deterioration of the cabins, school house and docks have been a concern for a few years now. The roof collapse in the school house was sad to see and we understand research on the historical treasure has slowed attempts to restore it. The cabins are showing wear and tear near all the windows and keeping insects out during evenings has become a challenge. The breakwall and docks are also in bad condition but a plan to prioritize and decide how to improve the experience on the island is a very positive step.
Never. What keeps you from visiting?	Cabin	7 nights or more	6	I enjoy having it available to visit without all the development. Nice quite and nesting bald eagles along with the frieghters.
Never. What keeps you from visiting?	Cabin	2-3 nights	6	I love the cabins. The problem with them is their state of disrepair
> 10 times	South shore campsites	2-3 nights	6	Originally there weren't places to pitch a tent other than platforms which aren't suited for all types of tents,
2-5 times	Cabin	2-3 nights	6	It was some years back so maybe its changed but electricity in the cabin/house would have been a big improvement. There was none then.
2-5 times	Boat	1 night	6	Other than the cabins, I don't recall much in the way of a facility. It would be cool if there was enough demand to justify bathrooms, and electricity stations at the boat dock.
6-10 times	Boat	1 night	6	Need better dock,limited amounts of easy access for young kids and older adults.Bathrooms are sometimes a issue,need to promote as a adventure destination.
> 10 times	Boat	1 night	7	docks need repairs
> 10 times	Boat	1 night	7	Stay on beach on boat on the south side. Don't use cabin facilities unless day tripping there.
> 10 times	Boat	2-3 nights	7	Very accomodating
> 10 times	Boat	2-3 nights	7	Could use some shore power
> 10 times	Cabin	2-3 nights	7	Over the last few years the cabins do not seem to be as well maintained, clean as in the past. Also the victorian house needs work
6-10 times	Cabin	7 nights or more	7	Buildings need some repair.
> 10 times	Cabin	1 night	7	Because the cabin need to have the windows put in that are in the cabins and we need to fix them and fix the other buildings. The cabins are very nice on the inside. Use need to let the voluteers help fix the things that need to be fixed. Everything we fix we are doing because our family was raised there and to protect the building and the history of the Island. A friend of mine owns the Lime islander boat. He use to live there to. I know funding is hard to get because of all the historical places that are competing for the funding but if you have volunteers willing to fix everything. Let them help and fix everything. Working together we all can get it looking great and get everything fixed and get the trials cleaned up . We can all do this together. We have been working with Corey Butcher and he does a great job and his crew also. I know there are times there is not enough man power. We are here to help in any way we can on Lime Island.

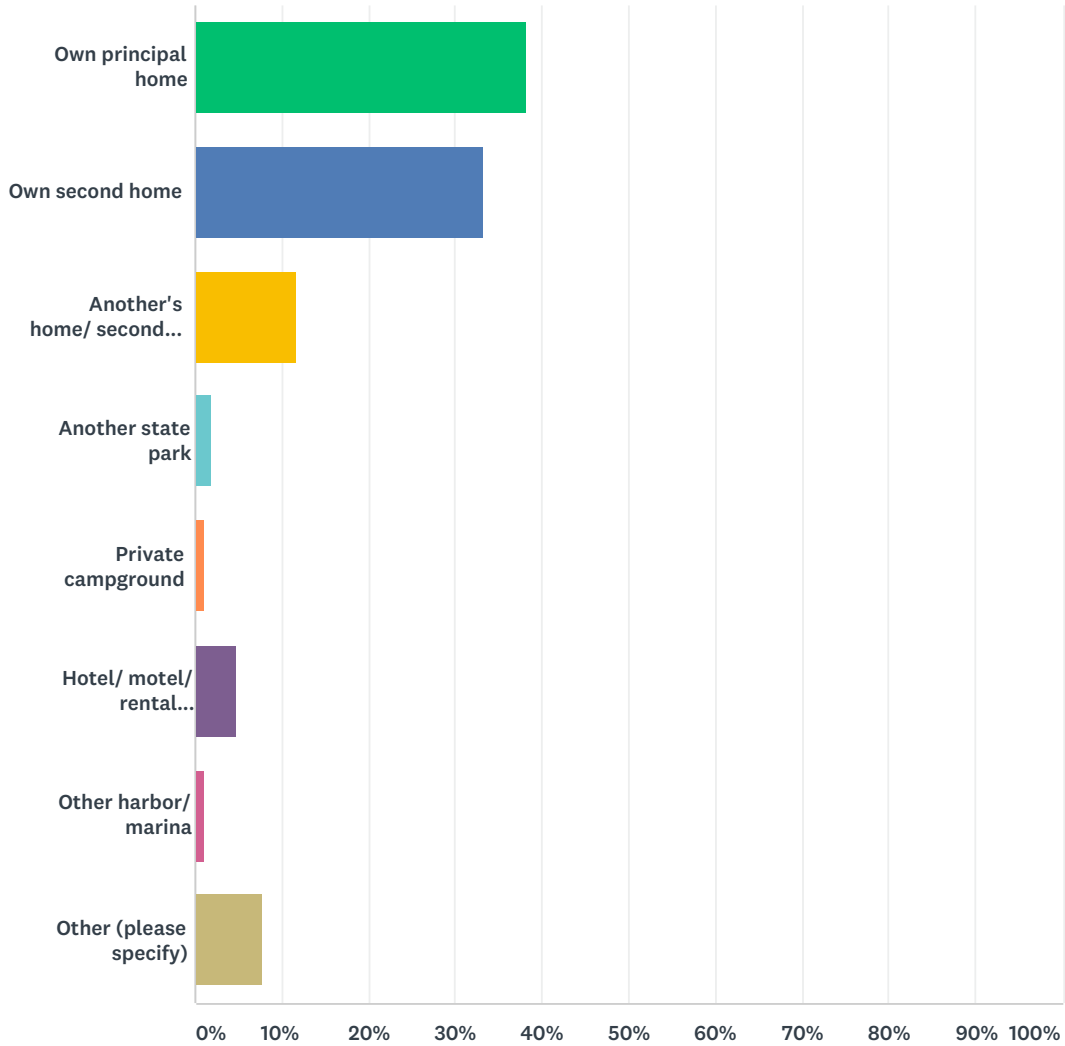
How many times have you visited?	Where do you typically stay?	How many nights do you typically stay?	Rank*	What is the PRIMARY reason for your rating?
2-5 times	Cabin	2-3 nights	7	Convenient dry shelter with nice rustic touches. Pretty clean.
6-10 times	Village campsites	1 night	7	secluded location, Not very many people around.
2-5 times	Village campsites	2-3 nights	7	Prefer campsites on the ground rather than a deck, to be further from the noisy terns, and to have an unobstructed view of the river rather than the harbor and pier.
> 10 times	Cabin	2-3 nights	8	The cabins are always kept very clean, the solar electricity is very dependable, and firewood is always provided punctually.
6-10 times	Cabin	1 night	8	Interesting
6-10 times	Cabin	2-3 nights	8	Love everything about staying in the cabins, except the outhouses.
6-10 times	Boat	1 night	8	Would be higher if there where cleats along the wall to tight off boats better with. Having been there now carry gear better suited to use what their is to tie off and protect mooring lines.
> 10 times	Boat	2-3 nights	8	Hosts are very nice and welcoming. The docks do need to be updated and offer more space for more boats
2-5 times	Boat	1 night	8	
6-10 times	South shore campsites	1 night	8	Bathrooms on harbor side would be nice.
2-5 times	Village campsites	2-3 nights	8	Quiet place with access for small paddle boats.
2-5 times	Cabin	2-3 nights	8	
Once	South shore campsites	2-3 nights	8	
> 10 times	Cabin	2-3 nights	8	Love everything about cabins. Would prefer more comfortable mattresses!
> 10 times	Cabin	1 night	8	Good shelter for children.
Once	Cabin	2-3 nights	8	Nice facilities.
Once	Cabin	4-6 nights	8	Toilets/showers/running water in the cabins would make it so much nicer.
> 10 times	Village campsites	2-3 nights	8	Each tent platform should have its own fire ring (along with a larger group size area that exists now). While I haven't stayed in a cabin, family has and they are very nice (although expensive).
Once	Cabin	2-3 nights	8	Well-kept cabins that are family friendly.
2-5 times	Cabin	4-6 nights	8	Nice rustic cabins, just the way they should be for the island. But they are due for a little spruce up.
> 10 times	Boat	1 night	9	Camp hosts are wonderful.
6-10 times	Village campsites	4-6 nights	9	Platform camping works well for us, and the views of the freighters going by are amazing, and the camp spots are private from each other.
2-5 times	Cabin	1 night	9	Its bare bones basic. A great place to disconnect.
> 10 times	Boat	2-3 nights	9	Over the years I have camped at both campsites, slept on my boat and rented one of the cabins. Every experience has been fantastic
2-5 times	Cabin	2-3 nights	9	Love the rustic feel. Love that there was only one electrical outlet.
2-5 times	South shore campsites	7 nights or more	9	When you're a kid, there is nothing cooler than camping on an island. I loved it.
6-10 times	Boat	2-3 nights	9	Always been happy

How many times have you visited?	Where do you typically stay?	How many nights do you typically stay?	Rank*	What is the PRIMARY reason for your rating?
Never. What keeps you from visiting?	Cabin	2-3 nights	9	I would love someone to give access to those of us who don't have boats. We would come to the area several times a year if we could get to the island to stay and I know other families who grew up there would as well.
2-5 times	Cabin	2-3 nights	9	It is peaceful. The cabins are reasonably equipped and easy to access from the dock. We were glad to have the opportunity to stay there.
> 10 times	Cabin	2-3 nights	9	
2-5 times	Cabin	2-3 nights	9	Clean cabin, equipped with what I needed, helpful host
2-5 times	Cabin	2-3 nights	9	Friendly and helpful Caretaker, beautiful unspoiled Nature
> 10 times	Cabin	2-3 nights	9	I just love everything about the island from staying in the cabin to stay at the dock on the boat
> 10 times	Village campsites	1 night	9	The hosts are very nice people. It is an Amazing place
> 10 times	Village campsites	2-3 nights	9	We love the platform campsites. Peaceful, rustic camping.
> 10 times	Village campsites	2-3 nights	9	I just love being somewhere that is special to me.
> 10 times	Cabin	4-6 nights	9	The cabins and toilets are always clean. Water out of the pump is always fresh and cold. We are seasoned campers so staying in a cabin with electricity is a luxury compared with our normal tent camping.
> 10 times	Cabin	4-6 nights	9	The cabins (#5 is "our cabin") are just what you need to be comfortable, yet rustic and the various host have always gone above and beyond to make our stay enjoyable. What more could you need?
> 10 times	Cabin	2-3 nights	9	The cabins are in good condition. I feel safe and comfortable.
> 10 times	Cabin	4-6 nights	9	The cabins are clean (although starting to look a little run down), spacious, great views of the shipping lanes and docks. Porto potties are clean. Hosts are so nice and very helpful - they go out of their way to make sure we have everything we need.
2-5 times	Cabin	4-6 nights	9	Love the rustic feel!!
2-5 times	Cabin	7 nights or more	9	Cabins are very nice with lots of windows and the beds are quite comfortable. Despite no indoor bathroom facilities, we go there knowing that it is a quaint, rustic place which we absolutely love.
> 10 times	Boat	2-3 nights	9	
2-5 times	Cabin	2-3 nights		
> 10 times	Boat	2-3 nights		When I was much younger, the island was in great shape, always had a nice crowd out there, buildings were well kept, didn't leak, weren't collapsing. When we visited July 2018, I was very shocked and sad to see how bad everything was. Please, please, fix this place back up!
Once	Boat	1 night		
6-10 times	Boat	1 night		I did not use the facilities provided on the island.



## Q15 Where did you stay when you visited the island?

Answered: 102 Skipped: 124



ANSWER CHOICES	RESPONSES	
Own principal home	38.24%	39
Own second home	33.33%	34
Another's home/ second home	11.76%	12
Another state park	1.96%	2
Private campground	0.98%	1
Hotel/ motel/ rental property/ B & B	4.90%	5
Other harbor/ marina	0.98%	1
Other (please specify)	7.84%	8
<b>TOTAL</b>		<b>102</b>

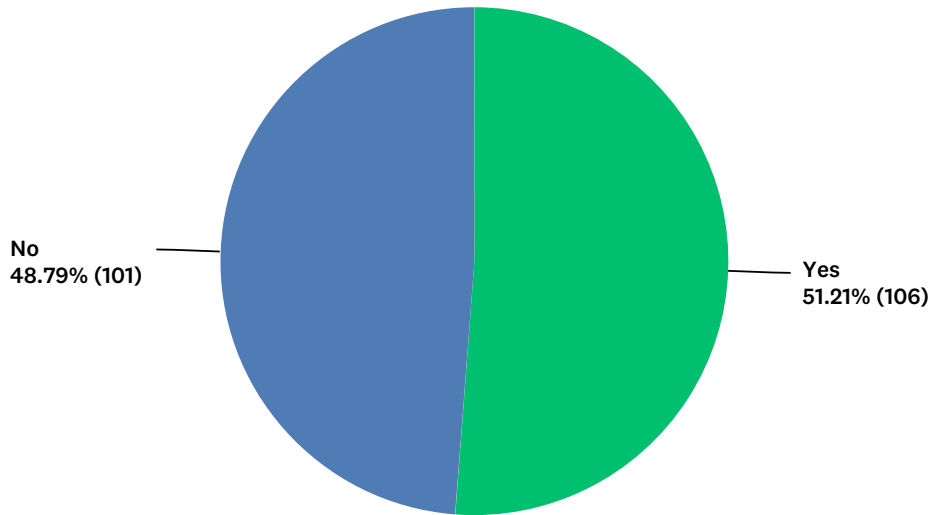
#	OTHER (PLEASE SPECIFY)	DATE
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## Lime Island State Recreation Area User Survey

1	Not yet	10/22/2018 9:32 AM
2	Raber Rustic Cabins	10/18/2018 5:58 PM
3	I have a cabin on Drummond island	10/18/2018 1:26 PM
4	friends private island	10/17/2018 7:25 PM
5	Haven't stayed there yet, but would stay in cabins	10/15/2018 7:12 PM
6	Own boat	10/15/2018 6:33 PM
7	Sault Ste Marie	10/14/2018 10:09 AM
8	Day of exploring	10/11/2018 3:51 PM

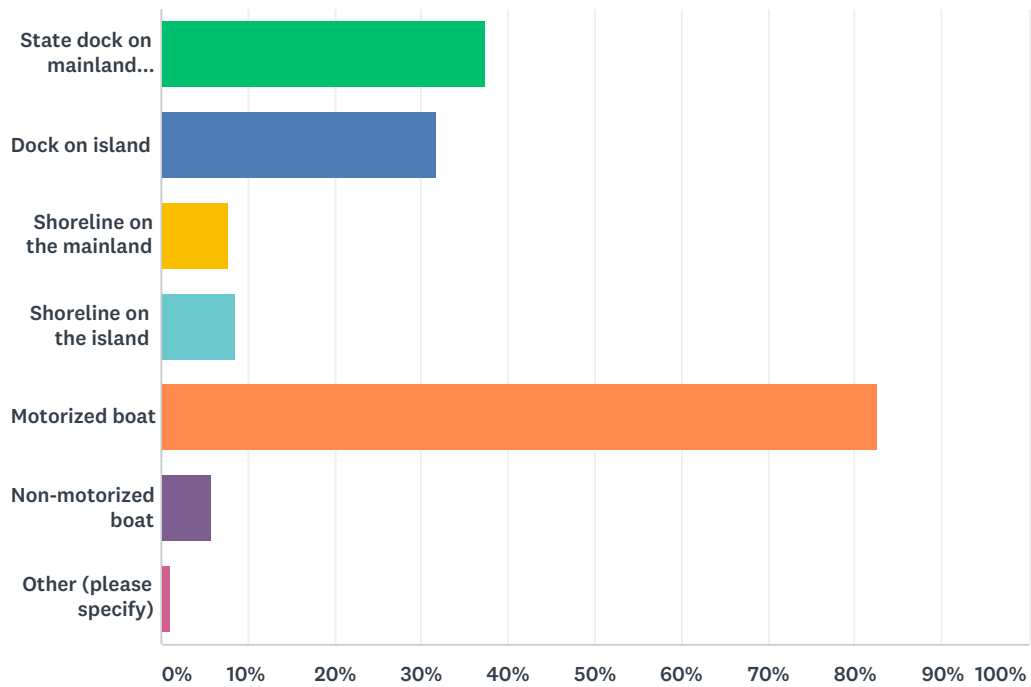
### Q16 Do you fish at Lime Island State Recreation Area? (either on the island or on the state-owned land in Raber)

Answered: 207 Skipped: 19



## Q17 How do you typically access the water for fishing? Select all that apply

Answered: 104 Skipped: 122

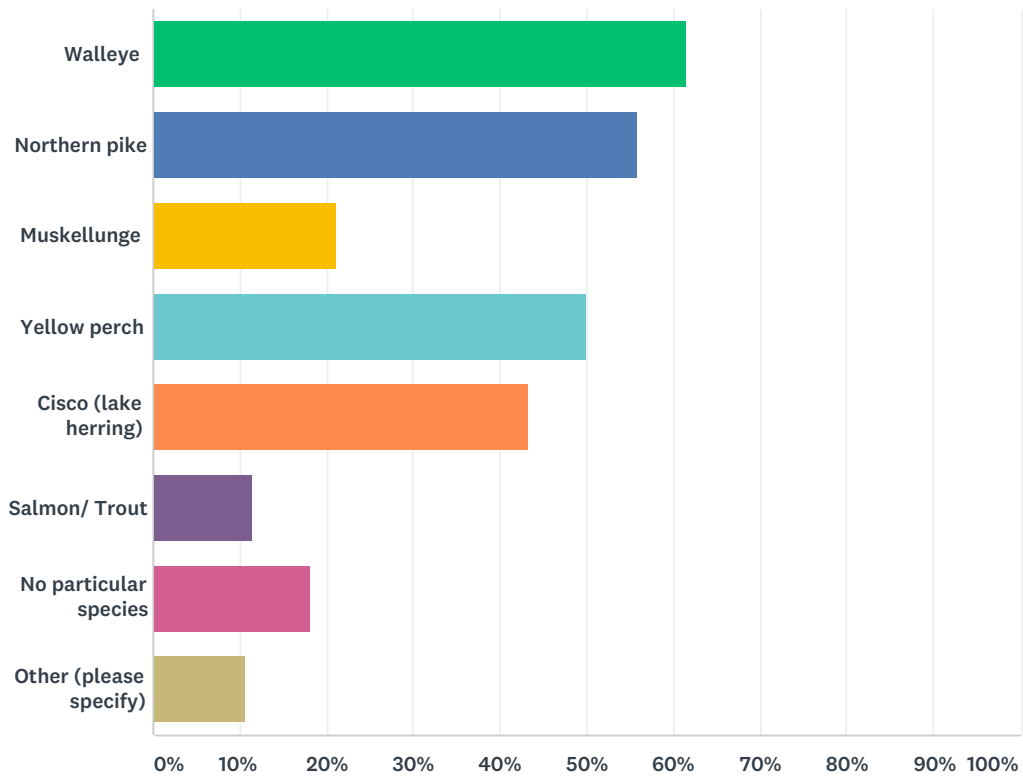


ANSWER CHOICES	RESPONSES
State dock on mainland (Raber)	37.50% 39
Dock on island	31.73% 33
Shoreline on the mainland	7.69% 8
Shoreline on the island	8.65% 9
Motorized boat	82.69% 86
Non-motorized boat	5.77% 6
Other (please specify)	0.96% 1
Total Respondents: 104	

#	OTHER (PLEASE SPECIFY)	DATE
1	Own dock	10/15/2018 2:41 PM

## Q18 What do you fish for at Lime Island State Recreation Area? Select all that apply

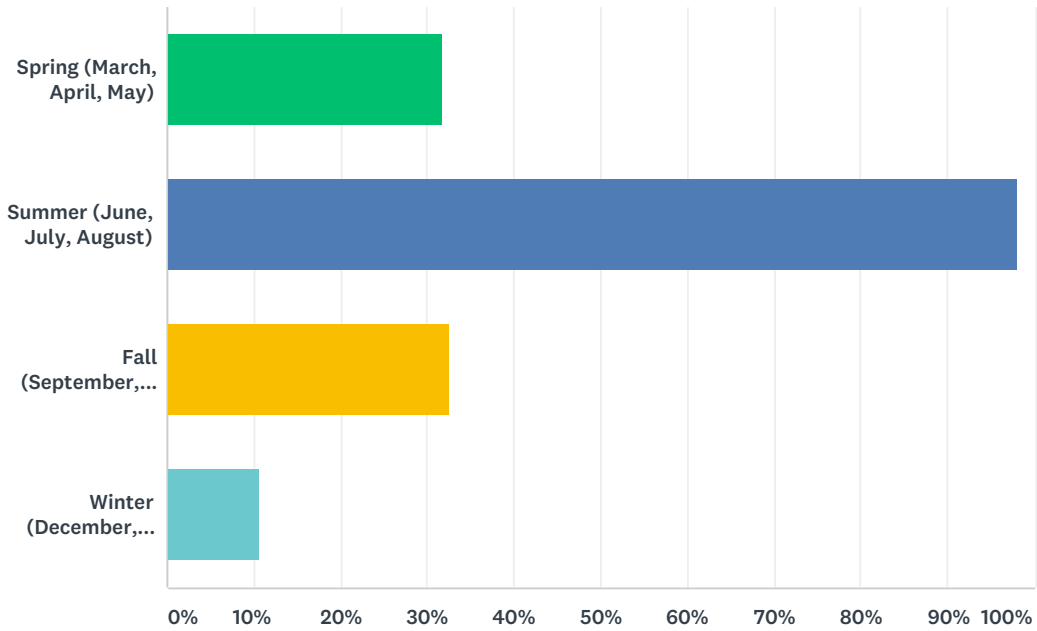
Answered: 104 Skipped: 122



#	OTHER (PLEASE SPECIFY)	DATE
1	Smallmouth bass	10/19/2018 10:27 AM
2	Lake Whitefish	10/18/2018 2:17 PM
3	Herring	10/15/2018 8:18 PM
4	Bass	10/12/2018 9:30 AM
5	Bass	10/11/2018 6:55 PM
6	every thing available in michigan is available off Lime Is	10/10/2018 10:41 AM
7	Herring	10/9/2018 6:32 PM
8	Herring	10/9/2018 10:36 AM
9	Anything that bites	10/9/2018 8:21 AM
10	Small & Largemouth Bass	10/8/2018 3:19 PM
11	Bass	10/8/2018 10:48 AM

### Q19 When do you fish at Lime Island State recreation Area? Select all that apply

Answered: 104 Skipped: 122



ANSWER CHOICES	RESPONSES	
Spring (March, April, May)	31.73%	33
Summer (June, July, August)	98.08%	102
Fall (September, October, November)	32.69%	34
Winter (December, January, February)	10.58%	11
Total Respondents: 104		



## Q20 Please provide any comments you may have regarding your fishing experience at Lime Island State Recreation Area.

Answered: 39 Skipped: 187

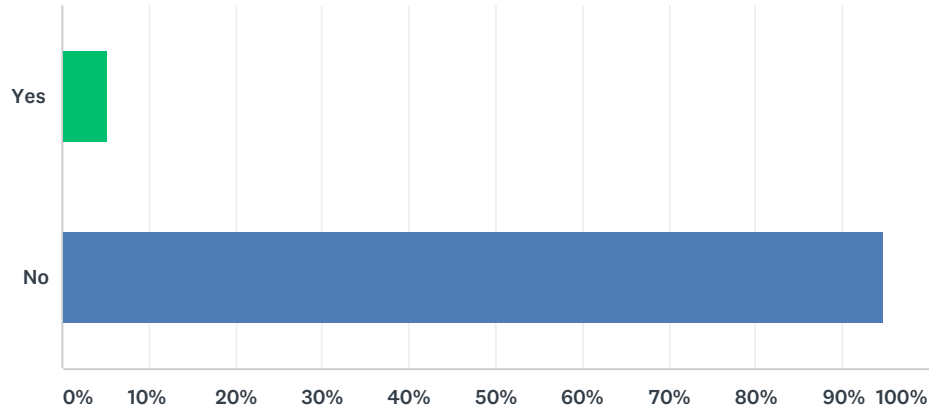
#	RESPONSES	DATE
1	Our best luck is off the harbor mouth for lake herring, but the walleye fishing is good farther out, too. Not much luck in the harbor these days.	11/1/2018 10:18 AM
2	I loved the old days when the shipping channel closed in the winter, allowing access to the island for ice fishing. Lots of people would like to see the channel closed for a couple months. I hear it's just Canadian traffic. How about doing something about that?	10/31/2018 1:44 PM
3	None specifically.	10/27/2018 8:42 PM
4	I always catch something when fishing lime island	10/19/2018 10:27 AM
5	It is an ideal location and should be fostered for improvement such as cribs, stocking etc. also, it draws many people from outside the area	10/18/2018 6:42 PM
6	Wish it was a bit more handicapped accessible. Also some type of charter reasonably priced, to and from would be nice for some of us older folks who live here. Visitors would have better access too. Thank you	10/18/2018 6:28 PM
7	Great time fishing	10/18/2018 5:57 PM
8	Primarily fish with our grandkids. It's a great place to introduce them to dock fishing.	10/18/2018 12:31 PM
9	Love to watch all the fishermen go to lime island	10/17/2018 4:38 PM
10	Enjoy it alot	10/16/2018 11:10 AM
11	I would love to see a ferry to the island	10/16/2018 8:28 AM
12	It's a wonderful place. Thank you.	10/15/2018 8:18 PM
13	Glad the fishing is coming back around	10/15/2018 3:49 PM
14	Needs more fish plants	10/15/2018 2:41 PM
15	Great fishing and wildlife viewing because it is remote and undeveloped.	10/14/2018 8:02 AM
16	Ever Since the coal/oil docks went out fishing is horrible	10/11/2018 7:24 PM
17	Fishing the last few years has not been great. In the past we had always been able to feed our whole group (usually 10-15 people) with a fish dinner, but the last few year's we have only been able to catch some pre-dinner - usually one or two keepers. We have missed the Cisco run which is a highlight of any trip.	10/11/2018 4:11 PM
18	The Herring and white fishing is excellent. Perch and walleye is ok.	10/10/2018 10:43 PM
19	Great fishing	10/10/2018 10:38 AM
20	Just like anywhere else it's fishing not always catching	10/10/2018 7:18 AM
21	Love the cisco!	10/9/2018 4:37 PM
22	The school is ideal to establish an interpretive center regarding transportation, canoe sail coal oil . The island is like a fuel Depot. Also the klins should provide a hands on archeology study of history.	10/9/2018 12:48 PM
23	I love fishing for herring during the run. I remember when we used to fish off the coal docks. Both us and the fish were black. Later after the coal docs were closed we fished from motorized boats. Not nearly as fun.	10/9/2018 10:36 AM
24	We caught many different species and the kids had a great time realing in the large fish.	10/8/2018 8:27 PM
25	Fishing has gotten worse the last two years with catch rates increasing dramatically. Cormorants are out of control again!!!!!!!!!!!!	10/8/2018 5:39 PM

## Lime Island State Recreation Area User Survey

26	A great spot for herring right off the park and good for walleye around the island and in Raber Bay.	10/8/2018 4:43 PM
27	Shhh, don't ruin the secret!	10/8/2018 3:33 PM
28	It is just a good way to get out on the water early morning and later evening. Great way to introduce friends and kids to the St. Mary's and Lime Island.	10/8/2018 3:19 PM
29	The docks are in rough shape, so we usually go off the beach or breakwall	10/8/2018 3:07 PM
30	Good fishing	10/8/2018 12:39 PM
31	Fishing is good and seeing a passing freighter is an added bonus. Lots of choices for fishing spots.	10/8/2018 11:37 AM
32	hit or miss	10/8/2018 11:25 AM
33	The St. Marys offers a huge variety of fishing opportunity and Raber Bay is an excellent location to access it.	10/8/2018 11:11 AM
34	Good	10/8/2018 11:09 AM
35	Good fishing if you find them.	10/8/2018 10:48 AM
36	Fishing from the mainland you have to avoid all the goose droppings!	10/8/2018 10:27 AM
37	We visited Lime Island once and thought the campsites were well designed. We are planning future visits to the campsites and possible rental of a cabin as well.	10/5/2018 2:06 PM
38	Took son over when he was younger and while most of the dock space was occupied, we were able to find 1 open spot to pull in and have a little picnic and fish off the dock. Husband and son were successful in catching a couple bass and we had a great time!	10/5/2018 8:04 AM
39	Seasonal with a good chance of catching a meal and more	10/4/2018 5:23 PM

## Q21 Do you hunt/ trap on Lime Island?

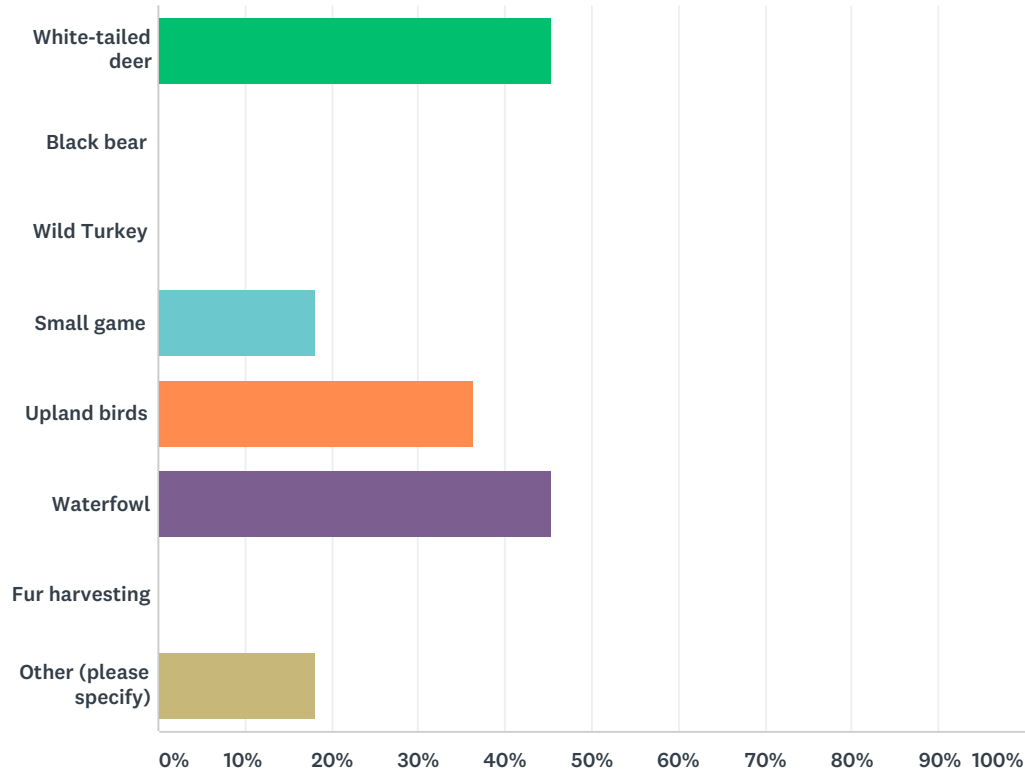
Answered: 207 Skipped: 19



ANSWER CHOICES	RESPONSES	
Yes	5.31%	11
No	94.69%	196
TOTAL		207

## Q22 What do you hunt/ trap? Select all that apply

Answered: 11 Skipped: 215



ANSWER CHOICES	RESPONSES	
White-tailed deer	45.45%	5
Black bear	0.00%	0
Wild Turkey	0.00%	0
Small game	18.18%	2
Upland birds	36.36%	4
Waterfowl	45.45%	5
Fur harvesting	0.00%	0
Other (please specify)	18.18%	2
Total Respondents: 11		

#	OTHER (PLEASE SPECIFY)	DATE
1	hunted and trapped in the late 1980_ 1990s dont anymore	10/26/2018 8:21 PM
2	Hunting is limited on the Island.	10/10/2018 10:42 AM

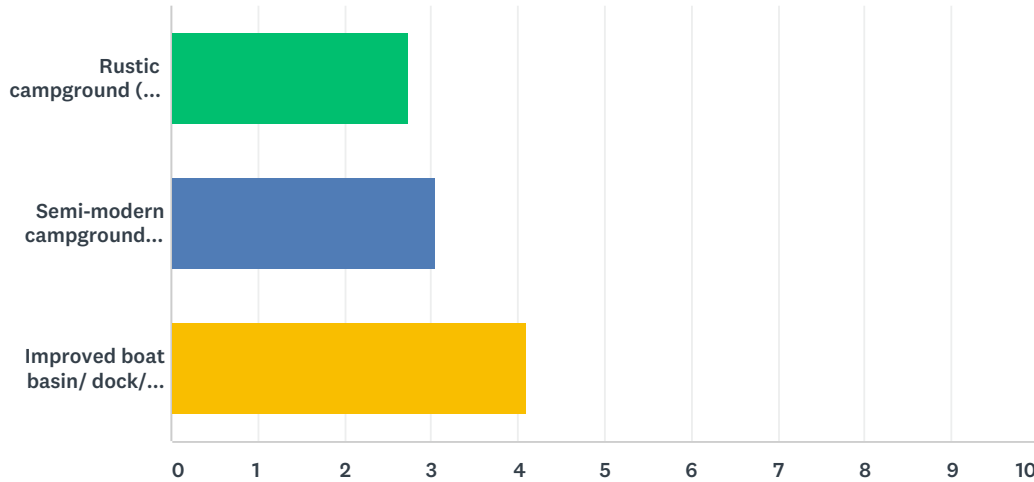
## Q23 Please provide any comments you may have about your hunting experience on Lime Island

Answered: 2 Skipped: 224

#	RESPONSES	DATE
1	Hunting is great do to the remoteness	10/19/2018 10:28 AM
2	Weather permitting Lime Island is a great place to get away from crowded hunting conditions that take away from the hunting experience.	10/14/2018 8:07 AM

**Q24 The DNR has recently purchased 6 acres on the mainland in Raber and is considering different options for this site. What is the likelihood you would use the following facilities?**

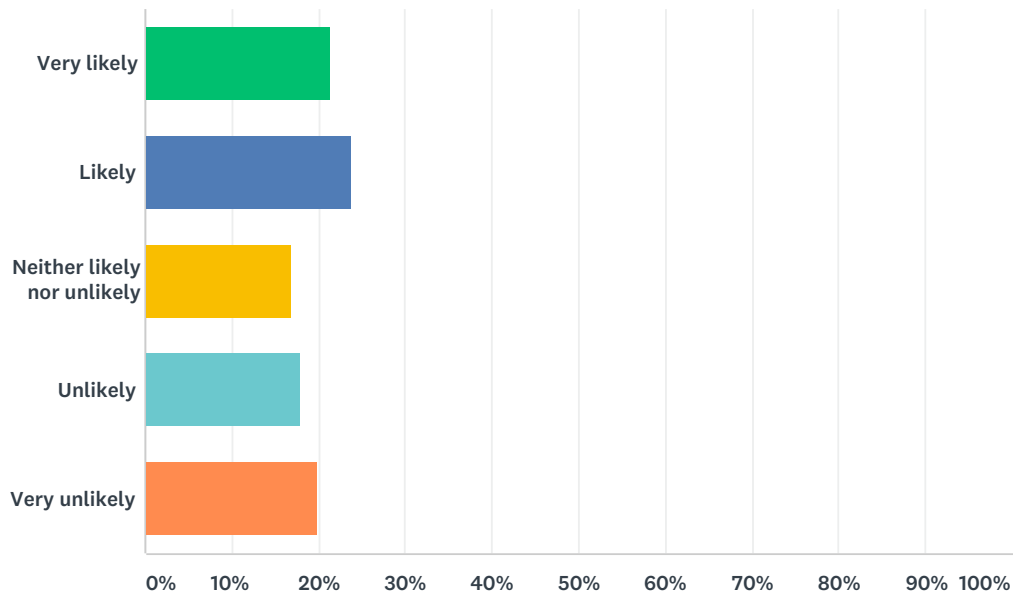
Answered: 206 Skipped: 20



	VERY LIKELY	LIKELY	NEITHER LIKELY NOR UNLIKELY	UNLIKELY	VERY UNLIKELY	TOTAL	WEIGHTED AVERAGE
Rustic campground (no electricity, no modern bathrooms)	12.31% 24	18.46% 36	22.05% 43	26.67% 52	20.51% 40	195	2.75
Semi-modern campground (electricity but no modern bathrooms)	16.67% 33	25.25% 50	20.71% 41	21.21% 42	16.16% 32	198	3.05
Improved boat basin/ dock/ boat slips	50.25% 102	27.59% 56	10.84% 22	3.94% 8	7.39% 15	203	4.09

## Q25 If there was a seasonal, fee-based ferry or charter boat to Lime Island what is the likelihood you would use it?

Answered: 206 Skipped: 20



ANSWER CHOICES	RESPONSES	
Very likely	21.36%	44
Likely	23.79%	49
Neither likely nor unlikely	16.99%	35
Unlikely	17.96%	37
Very unlikely	19.90%	41
TOTAL		206

#	COMMENT (OPTIONAL)	DATE
1	I would like to see the DNR introduce sufficient lighting to the old coal dock on Lime Island, so as to re-focus the mayfly hatch during late June and July. After 40 years of decline, herring fishing would be relevant again, and it would kick-start your new campground and ferry service in just a couple years. Before the island was shut down, tourism thrived. No studies needed, just do it. I will pledge the first \$5000 to get it done.	10/31/2018 1:44 PM
2	We like stopping when there is very few people there. That is the major draw for us. If there were a ferry or charter boat we would lose the uniqueness of the island. Against easy access.	10/28/2018 10:23 AM
3	We love how private the island is and that you need to have your own way to get there. A ferry or charter boat would decrease the island's appeal to us.	10/27/2018 8:44 PM
4	live in Raber	10/26/2018 8:22 PM
5	We enjoy the novelty and adventure of boating over to the island ourselves.	10/24/2018 7:52 PM
6	Make it affordable for the people to be able to use.	10/21/2018 1:03 PM
7	I would love to visit the island a couple times a year just to walk around.	10/20/2018 6:24 AM
8	That would be awesome if transportation was provided!	10/19/2018 12:13 PM



## Lime Island State Recreation Area User Survey

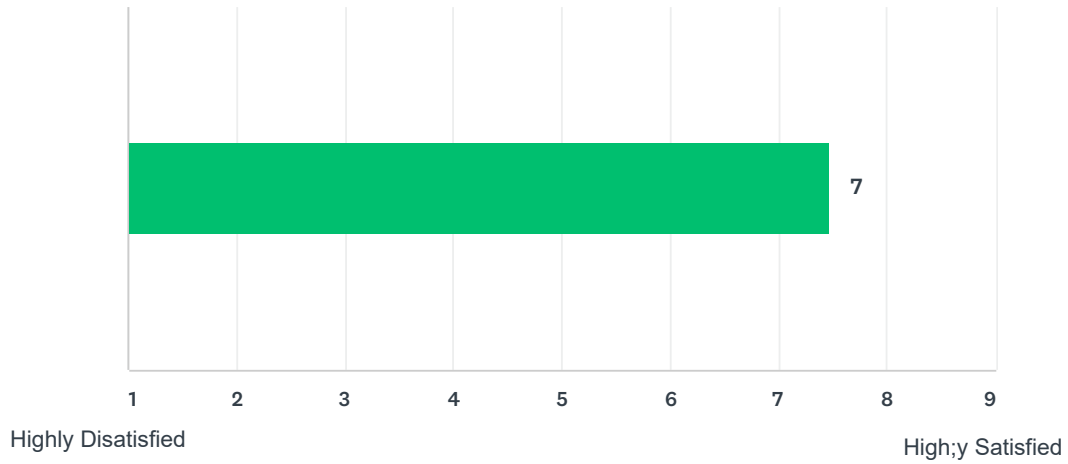
9	we have our own boat	10/18/2018 8:55 PM
10	I would be less likely to use a ferry but I often hear people looking for rides out to the island	10/18/2018 6:43 PM
11	Glad the option of a boat service of some kind is a thought. Smart thinking.	10/18/2018 6:30 PM
12	We always have our own boat so we can fish and boat from the island while we stay there.	10/18/2018 3:58 PM
13	Surprised there isn't a service run by a local - maybe they know something the state doesn't? If it was financially sound to run a service there'd be one, eh?! The opportunity has always been there. I don't see the need for the State to start one.	10/18/2018 12:34 PM
14	ferry would help promote this very unique site, resource	10/17/2018 7:26 PM
15	Although I would not use it friends and family would use this	10/17/2018 4:39 PM
16	We wouldn't use any of these because we have a boat and a cabin across the river, but think making accessibility to the Island easier would increase visitation. It is a great place to visit, but relatively unknown to people outside the area.	10/17/2018 3:22 PM
17	I think this is a GREAT idea and I am sure that the Island would get many more visitors!	10/17/2018 2:39 PM
18	We are in our 70's now, but in the past we fished near the island.	10/16/2018 7:47 PM
19	We would hate to see Lime Island become too overly populated/commercialized; however, we would certainly be pleased to see improvement.	10/15/2018 7:23 PM
20	Yay. Finally options that would help me get to Lime Island!	10/15/2018 7:15 PM
21	We have our own motorized boat currently, but it may not always be an option.	10/15/2018 7:08 PM
22	The 6 acres was my family's cabins years ago. Would love to see cabins or good camping with boat rental there again.	10/15/2018 3:51 PM
23	I think others would take advantage of the camping on the island if they had a way to get out to the island. In my case I have boats that enable me to travel to and from.	10/15/2018 3:51 PM
24	No roads on the island but might be worth looking into for pedestrian traffic	10/15/2018 2:43 PM
25	The whole reason I am answering this survey is in the hopes a Ferry would return. It was fun to ride the ferry to go to school when I was a kid and its a nostalgia I would love to share with my kids and grandkids now.	10/15/2018 1:58 PM
26	I don't like camping, so I wouldn't stay there.	10/15/2018 12:07 PM
27	I don't think I would travel from Drummond Island to Raber then take a ferry to Lime Island. Part of what we do is get a bunch of boats and go over there together for a night or two	10/15/2018 11:12 AM
28	Have our own boat	10/15/2018 10:58 AM
29	As long as the ferry doesn't damage water life or nature, I would take it	10/15/2018 10:05 AM
30	We are not around in the winter, but if we were, I would use it. Would be fun to go snowshoeing.	10/15/2018 7:32 AM
31	This would help so much!!!	10/15/2018 5:46 AM
32	Lime is special, unique because you have to get there on your own.	10/13/2018 10:45 AM
33	Not sure this is a good idea because it may create overuse. It is special that one must make their way by boat to the island. We are planning a group paddling/sailing weekend get together on the island for next August.	10/13/2018 10:16 AM
34	Re open schoolhouse and Superintendents house and continue to do maintenance and updates as needed.	10/13/2018 8:02 AM
35	I think a ferry or charter boat would bring too many groups and change the character of the island	10/12/2018 9:32 AM
36	own my own boat	10/11/2018 7:25 PM
37	Its hard to get to Lime Island because of transportation.	10/11/2018 6:39 PM
38	The answers to #21 and #22 would depend on: what is done to improve the island experience and the price to use the charter to get to Lime Island.	10/11/2018 4:14 PM
39	Please improve the docks and upkeep of historical buildings. The Victorian house needs repairs desperately!	10/11/2018 12:13 PM

## Lime Island State Recreation Area User Survey

40	My family has it's own boat that we use to get to Lime Island that can be docked at our family cabin where we stay.	10/11/2018 11:58 AM
41	I am very limited as to visiting. Husband in wheelchair.	10/11/2018 10:55 AM
42	A ferry would be a huge bonus! I visit the UP once a year. Locating transportation to LI has always been a huge issue to visit. Myself and many other relatives would love to stay on the island but finding transportation is a big issue!	10/11/2018 9:11 AM
43	I am working on a captains license to provide assistants for the campers and would use a docking area	10/10/2018 10:44 AM
44	WE have our own boat but I know since I put it on my facebook there are a lot of people that want to go to lime island but no boat to take them. If use had a boat use would get a lot more people coming over there. By the school house on the right side if that was all mowed it would make a nice place for picnic tables	10/10/2018 10:02 AM
45	A campground in Raber is needed! There are very limited options in the area for camping.	10/10/2018 9:55 AM
46	We have our own boat, but I think there would be a lot of tourists that would enjoy a ride to the island and around the island	10/10/2018 7:19 AM
47	I think if the state opened ORV trails on Lime Island with some sort of small landing ferry for people to take their orv over would be a huge hit. I think they would camp mainland and the Island.	10/10/2018 6:51 AM
48	I think if the DNR had a ferry service this would ruin the magic of Lime Island	10/9/2018 9:05 PM
49	We live in Barbeau and take our own boat to the Island.	10/9/2018 6:39 PM
50	We go in our own boat.	10/9/2018 1:43 PM
51	I would stop going there. There are lots of islands to explore. Keep this one for relaxed boat camping.	10/9/2018 12:51 PM
52	Please fix the cabins and the schoolhouse and boat dock They are really in the state of decline	10/9/2018 5:33 AM
53	We would probably still take our boat accross, unless the weather wasn't the best	10/8/2018 8:28 PM
54	The key to having improved numbers of people visiting Lime Island is for regular transportation being available.	10/8/2018 7:44 PM
55	A campground with electric, water and a dump station would make this property very attractive. Most beautiful site on the river.	10/8/2018 5:43 PM
56	We bring our own boat to get to the island and to use for fishing and exploring the River.	10/8/2018 3:46 PM
57	I understand the desire for a ferry service, but it would dramatically change the island both in use and facilities. Personally, I would prefer to see the money spent on upgrading the existing cabins, docks and facilities on the island instead of on ways to get more people there. The introduction of a ferry service would force upgrades to the island, but would also increase the maintenance requirements. If the island facilities where upgraded and a greater demand created, the transportation would solve itself - Uber boats. The key to creating demand is not to provide easy transportation, it's to create the destination.	10/8/2018 3:23 PM
58	We love our time on the island, so wouldn't really consider camping on the Raber side.	10/8/2018 3:10 PM
59	docks on the island need be fixed	10/8/2018 2:39 PM
60	Part of the charm is that the island is only accessible by your own boat. I understand the desire to make available to more users but it would spoil some of the uniqueness of the experience.	10/8/2018 11:13 AM
61	We would only use this service if there was a semi-modern campground to use our travel trailer - otherwise we would pull our boat up to access the island.	10/8/2018 10:50 AM
62	It would provide the option of staying at one of the cabins, instead of always spending the night on our boat.	10/8/2018 10:37 AM
63	Above uses would likely be from out of state family or visitors.	10/8/2018 10:29 AM
64	Lime Island is a gem for recreational activity. The east side of the island has good wind protection and is great for canoe and kayak ventures.	10/5/2018 2:10 PM
65	I love lime island ,I have seen it change young people who came as I pad users and left as bird watchers and drift wood boat builders.	10/4/2018 5:27 PM

Q26 Using the scale below, please rate how satisfied you were **OVERALL** with your **MOST RECENT** visit to Lime Island.

Answered: 78 Skipped: 7



ANSWER CHOICES	AVERAGE NUMBER	TOTAL NUMBER	RESPONSES
	7	583	78
Total Respondents: 78			

BASIC STATISTICS					
MINIMUM	MAXIMUM	MEDIAN	MEAN	STANDARD DEVIATION	
1.00	9.00	8.00	7.47	2.15	

Using the scale below, please rate how satisfied you were OVERALL with your MOST RECENT visit to Lime Island.

What is the PRIMARY reason for your rating?

1	Answered a few questions back.
1	schoolhouse needed repair and supt house was closed off in some rooms in need of repair
1	The schoolhouse had a tarp on the roof because of leaking. VERY SAD
2	Nothing to do anything in the area, no businesses, all business's are closing. State of MI should Parton up with the local campgrounds in the area to help support all the local campgrounds.
2	No dockage with water and power for lager boats
2	Lack of explaining the history of the Island and the run down buildings! Very poor and unsafe docks! Lack of a good trail map.
2	
2	Historic sites school and main house in disrepair. It is a shame the don't us letting this happen. When a small amount of money could preserve this place for years a little plywood and some shingles what a shame. Shame on you Michigan Dnr.
3	The schoolhouse is in dire need of repairs and we were unable to go inside, and certain areas of the Victorian House were closed off for renovation.
4	nothing negative on visit
4	I was VERY disappointed that the schoolhouse was off limits because of its state of disrepair.
5	The school house and Victorian house are falling apart. It's sad to see it not taken care of.
5	
5	I have a lot of family history there and my grandmother was the first school teacher there and I was very disappointed to see the school closed it is a very beautiful recreation area I would sure like to see improvements made on the island. If this was done I think a lot more people would love to visit the island.
5	I live across from the island never thought about it
5	Deteriorating buildings, no host.
5	Nothing happening over there. Dead quit
5	I have not yet visited Lime Island.
5	Could find hungry herring.
5	Didn't catch any fish!
6	The trails weren't very maintained
6	The family friendly atmosphere
6	
6	
6	School house was closed, due to new roof. Poison ivy on the island....
6	Enjoyed stay but fishing was slow.

Using the scale below, please rate how satisfied you were OVERALL with your MOST RECENT visit to Lime Island.

What is the PRIMARY reason for your rating?

- 6 I live in the area. Would like to see it improved but I am not traveling from out of town to do so.
- 7 Needs better dockage
- 7
- 7 Dock facilities need urgent repair
- 7
- 7 The seclusion and privacy
- 7
- 7
- 7 I have been working on the school house I was not happy seeing it the way it was and how it was not taken care of.
- 7
- 7 It has been a long time since Ive gone but my memory is a happy, fun one.
- 7 like it there.
- 7 The view west from the cabins is incredible.
- 7 Not nearly as fun without family there. Still a beautiful place. Still have fond memories. I love the fact that the DNR own the island and it is getting used. It would be a waste without the park. I am limited in boat transportation but I would
- 7 love to get over to the island again someday.
- 7 Liked the island, weather was not so good
- 7 Needs more docks by shore
- 7
- 7 We had a good time, hiked/toured the island and spent the night on our boat.
- 7 Had a good day, but the facilities could be improved
- 7 Some of the historical buildings are needing care and upkeep, so we couldn't enter some.
- 7 Its a very unique destination
- 7
- 7 Lack of dock space - due to a group taking all the spaces. Island itself was great!
- 8
- 8 Loved the hosts of the island and has a great time watching the ships go by.
- 8
- 8 Good time
- 8
- 8
- 8 The buildings and grounds were well maintained.
- 8 Accessible by small paddle craft, yet part of a much larger waterway.
- 8
- 8 Disrepair of house and school
- 8 Always a relaxing place to go to hike, watch the freighters go by, and explore the island.
- 8 Love everything about it!
- 8 LOVE THE FEELING OF REMOTENESS
- 8 Area set aside for boaters.
- 8 Water recreation
- 8 We love Lime Island but the school, superintendent's house, the docks and the cabins need some attention.

Using the scale below, please rate how satisfied you were OVERALL with your MOST RECENT visit to Lime Island.

What is the PRIMARY reason for your rating?

- 8 It's great other than the changes I suggested to the campsites
- 8 Very unique. Very few other people. Very private feel and secluded. Hard to find that sort of experience anymore.
- 8
- 8 Had a good time.
- 8 great potential.
- 8 It's one of a kind experience, it's rough around the edges but is a diamond on the waterfront. Has The capacity to let you make your own history as a great place to enjoy family and friends.
- 8
- 9 Always have fun
- 9 The dedication - I saw all our friends and family who used to work and live on the island
- 9 My husband and I enjoy the island and the ease of which to access it. I love the history behind it!
- 9 It was peaceful, beautiful, and fun to visit the historic schoolhouse and Victorian house, as well as walk around the island.
- 9 I like lime island the way it is
- 9 Family get together, something fun to do
- 9
- 9 Explore
- 9 I thought our was beautiful there. I love it there.
- 9 It is gorgeous over there.
- 9 I liked visiting the area where my Mother was born and grew up
- 9 Remote and solitude is the primary reason I visit Lime Island.
- 9 the natural beauty of the island
- 9 Protected marina. Interesting history. Nice hiking.
- 9 Lack of crowds
- 9 Enjoyed lack of people and history of area, buildings, schoolhouse, platforms to kayak /canoe camping, and dock for sailing visit and loved the walk across the island.
- 9
- 9 A rustic, but maintained and not overused island adventure.
- 9 Secure overnight dockage and area was quiet.
- 9 I like the small amount of people that are there at any given time.
- 9 We go for an opportunity for 4 families to have time away together. Lime island allows this as well as cabins if the weather is bad. We've been doing this every year for about 15 years.
- 9
- 9 I was able to completely relax, enjoy the beautiful water and woods, and breathe
- 9 We really enjoy our experience to Lime Island to see the history that is maintained in the Superintendent's House and School house when the island was a thriving little community. As mentioned, it is where my grandparents worked and my father and his family were born and raised.
- 9
- 9 I love to visit the island and share the experience with others.
- 9 I love it
- 9 Wonderful camping experience. Quiet and peaceful.
- 9 Being with my family.

Using the scale below, please rate how satisfied you were OVERALL with your MOST RECENT visit to Lime Island.

What is the PRIMARY reason for your rating?

- |   |  |
|---|--|
| 9 | Love the whole experience! The freighter watching, sailing, kayaking, swimming.  |
| 9 | Nothing like relaxing on an island!  |
| 9 | We had a great time!   |
| 9 | We caught fish and found the lime kilns interesting.   |
| 9 | We always have an amazing time on Lime Island!   |
| 9 | Good docking, well maintained and not overly crowded   |
| 9 | We simply love the experience our family enjoys each time we visit, we generally stay 4-5 nights. Our family trips to Lime Island are a highlight of our year, it has become an ideal spot for an annual family trip.  |
| 9 | We had the island to ourselves and enjoyed beautiful weather.  |
| 9 | I brought family members that have never been there and we had a great day on lime island.   |
| 9 | It was a great vacation!!  |
| 9 | Love the cabins and their many windows, the quiet atmosphere, freighter watching, the hillside looking out over the river, the sunsets, hiking around the island, kayaking and boating around the island, fishing, and playing the piano in the schoolhouse even though all the keys don't work. |
| 9 | It's very nice   |
| 9 | Unique experience in the state park system to enjoy the outdoors with family.  |
| 9 | Our hidden gem that is quite the secret.   |
|   | It's just a nice overnight stay on our boat. It can be improved with electricity   |



## Q28 What, if any, changes would you make to Lime Island State Recreation Area?

Answered: 150 Skipped: 76

#	RESPONSES	DATE
1	Not sure if you can get rid of the poison ivy. Some of the old industrial buildings and equipment could be removed. Big job, I know.	11/1/2018 10:20 AM
2	Add the lights to the dock, as mentioned above. I think this is a huge opportunity to boost the activity on the island, as well as the facilities you are considering in Raber.	10/31/2018 1:45 PM
3	I like it.	10/28/2018 1:58 PM
4	Ferry service	10/28/2018 12:37 PM
5	No. Leave it as is . Please.	10/28/2018 10:26 AM
6	The portajohns are okay, but upgraded bathrooms like at the boat launch would be appreciated.	10/27/2018 8:53 PM
7	put more attention on preserving the kilns ,school ,cabins	10/26/2018 8:45 PM
8	An upgrade to the marina docks would be great.	10/24/2018 7:54 PM
9	Campground on mainland and easier access to the island	10/22/2018 3:34 PM
10	Fixing up the buildings. The big house and the school house is in very much disrepair. The lime kilns are quite overgrown.	10/21/2018 1:25 PM
11	Lack of exposure is this attraction's weakness. Maybe a free ferry day once per Summer to gain awareness.	10/20/2018 6:55 AM
12	I thought your rental fees were high for not having modern facilities.	10/20/2018 6:32 AM
13	Get rid of the poison ivy which is everywhere	10/19/2018 1:23 PM
14	Fix up the marina & restore the historic buildings	10/19/2018 11:46 AM
15	Add a couple more cabins to the east and south sides	10/19/2018 10:42 AM
16	Dock and harbor improvement as well as ferry availability	10/19/2018 9:01 AM
17	Tell us about it!	10/19/2018 6:46 AM
18	N/A	10/18/2018 9:58 PM
19	dock improvement and renovations to school house and other house.	10/18/2018 9:01 PM
20	Please please please fix the dock/slips! They're so worn out and some are marked as unsafe! This was mid-August 2018. We were able to tie up at the wall but with a small boat and not enough slips, it's hard getting in and out of a boat.	10/18/2018 8:23 PM
21	Taylor the island to being a recreational area that families could visit and make habitat improvement for fish and wildlife	10/18/2018 6:47 PM
22	Previously mentioned	10/18/2018 6:33 PM
23	Couple outhouses around trails and beach.	10/18/2018 6:22 PM
24	Maintain better. Improve dockage. Several times the dockage was all occupied by Canadian Boats.	10/18/2018 6:17 PM
25	Better outhouse maintenance	10/18/2018 4:42 PM
26	The docks need significant repair and the cabins need help too, particularly the windows and screens	10/18/2018 4:02 PM
27	Docks need improving	10/18/2018 3:47 PM
28	fix it	10/18/2018 3:13 PM

## Lime Island State Recreation Area User Survey

29	I would like the docks improved and buildings maintenance kept up.	10/18/2018 3:09 PM
30	None	10/18/2018 3:06 PM
31	Improve docks and availability by boat.	10/18/2018 2:57 PM
32	Not much. Leaving it as is is probably the best thing to do.	10/18/2018 2:20 PM
33	None	10/18/2018 2:09 PM
34	boat landing ; improved	10/18/2018 1:32 PM
35	Improve the docks. Period.	10/18/2018 12:40 PM
36	As much as I appreciate the lack of other people, I think it is too bad only those with access to or the resources to employ a charter are able to visit the island. I think some kind of limited ferry or boat service would open the experience to a larger group of people.	10/18/2018 7:50 AM
37	refurbish the buildings, history information, promote recreation and make it easy for families to participate, i.e. tours, provide fishing pole rental, improve hiking areas too much poison ivy, too narrow paths, most overgrown.	10/17/2018 7:37 PM
38	Would recommend fixing the school house and the house so we do not loose the history of lime	10/17/2018 4:47 PM
39	Needs repairs	10/17/2018 3:29 PM
40	Add charter boat service	10/17/2018 3:28 PM
41	New docks would be a definite plus.	10/17/2018 3:00 PM
42	provide water in the cabins and clean up the poison ivy if possible...it was there when we were kids	10/16/2018 8:06 PM
43	na	10/16/2018 7:09 PM
44	Upgrades / improvements to trails. Poison ivy control.	10/16/2018 5:44 PM
45	Island is full of poison ivy.	10/16/2018 12:21 PM
46	modern bathrooms, even if it weren't in each cabin, but a separate building with toilets and showers that visitors for the day could also use. Maybe more historical information.	10/16/2018 12:07 PM
47	A ferry	10/16/2018 8:30 AM
48	More boat slips, at times you cannot stoop because it is full	10/16/2018 7:55 AM
49	Better docks for boats.	10/15/2018 8:48 PM
50	n/a!	10/15/2018 8:19 PM
51	After making docks etc. structurally sound and safe, I might put in some picnic areas. We enjoyed the island as it was a few years ago and would be happy to simply see it restored to its prior dignity.	10/15/2018 7:30 PM
52	Just transportation to get there	10/15/2018 7:18 PM
53	More boat slips for those who prefer to stay in Marina like area. We could have used more information available to us to know where the rustic lots on the backside of the island were and how to access.	10/15/2018 7:15 PM
54	Better boat dockage, more modern lodging	10/15/2018 6:56 PM
55	Better docks, fix the existing buildings	10/15/2018 5:37 PM
56	Mooring cleats along wall for small boats. Also could put in wood horizontal bash boards on the wall for small wood and fiberglass boats.	10/15/2018 3:56 PM
57	Keep up the cabins more hiking trails	10/15/2018 3:52 PM
58	Make it more accessible	10/15/2018 2:45 PM
59	None	10/15/2018 2:13 PM
60	More docks and possibly shore power.	10/15/2018 2:11 PM
61	Just need a way to get there!	10/15/2018 2:00 PM
62	Cleaner trails and transportation to the island	10/15/2018 1:16 PM

## Lime Island State Recreation Area User Survey

63	None	10/15/2018 12:11 PM
64	Not sure	10/15/2018 11:14 AM
65	Buildings repaired, school house repaired, (my father went to school there), new docks	10/15/2018 11:02 AM
66	Create a nice beach for swimming	10/15/2018 8:42 AM
67	Make sure the school house and Victorian house are able to be open (make the necessary repairs to them)	10/15/2018 8:17 AM
68	Renovations on the historical building. I netted gazebo to sit in to escape mosquitos. More slips for visiting boats.	10/15/2018 7:34 AM
69	Better hiking trails, it really comes down to less poison ivy.	10/15/2018 7:23 AM
70	Better dockage	10/15/2018 6:31 AM
71	They are doing a great job now fixing it up. Keep fixing buildings.	10/15/2018 6:15 AM
72	The docks need to be updated. With a ferry service, it would open up so many opportunities to get more people there. Campers, hikers, bird watchers, freighter watchers and any outdoor lovers.	10/15/2018 5:54 AM
73	More dockage with water and power for larger boats	10/15/2018 5:46 AM
74	Would like power for our boat and a shower room would be great.	10/15/2018 5:42 AM
75	None.	10/14/2018 9:49 PM
76	Boat service to the island	10/14/2018 10:12 AM
77	None, more visitors to the island could change the experience of visiting.	10/14/2018 8:17 AM
78	Station fulltime ranger and maintenance person on island to keep things up	10/13/2018 9:20 PM
79	no changes	10/13/2018 1:00 PM
80	Not much. Off season could be more enjoyable if bathrooms and water was available.	10/13/2018 11:52 AM
81	Bathrooms near campground	10/13/2018 11:46 AM
82	Very little. I like it's rustic nature.	10/13/2018 11:34 AM
83	None.	10/13/2018 10:48 AM
84	Keep it rustic!	10/13/2018 10:19 AM
85	Invest into updates to washrooms, schoolhouse and Superintendents building.	10/13/2018 8:07 AM
86	Keep it rustic, undeveloped. Improve trails, add hike in campsites.	10/13/2018 8:00 AM
87	improve access at dock some	10/13/2018 7:29 AM
88	None	10/13/2018 6:21 AM
89	Have a charter boat to take people there. Make improvements to the buildings and make a walkway or steps to the top of the hill so it would be easier for older people to get up the hill , It needs more seating area at the top of the hill. It is such a beautiful spot to sit on top of the hill and watch the freighters go by. It is a nice getaway to get away from it all. Very relaxing	10/12/2018 7:34 PM
90	Better docking for boat	10/12/2018 6:11 PM
91	Maintaining cabins, boat docks, school house and victorian house	10/12/2018 9:35 AM
92	More improved boat slips like in Detour and better hiking trails the back side of the island	10/11/2018 7:32 PM
93	more accessible to Michiganders	10/11/2018 6:47 PM
94	n/a	10/11/2018 5:49 PM
95	Keep the cost for families reasonable, even if it is improved. Fix the cabin windows. Fix the schoolhouse, Fix the docks. Consider what can be done with the break wall. Put in a clivus multrum. Put in some sand in one spot in the harbor to better enable kayak launching and swimming.	10/11/2018 4:46 PM
96	ferry service	10/11/2018 4:05 PM
97	To keep the existing buildings in good condition.	10/11/2018 4:03 PM

## Lime Island State Recreation Area User Survey

98	Upkeep of this historical site	10/11/2018 12:15 PM
99	Docks need major improvement.	10/11/2018 12:11 PM
100	Cooking facilities in cabins	10/11/2018 11:01 AM
101	Repairs to all buildings and docks. More signage explaining the history of the island.	10/11/2018 10:57 AM
102	Better docks to start with then repair all the buildings and better explain the History of Lime Island.	10/11/2018 10:36 AM
103	Ensure the existing buildings are maintained to keep that history alive.	10/11/2018 8:50 AM
104	Improve and add docks.	10/10/2018 10:50 PM
105	Winter cabin rentals would be awesome, not sure of feasibility due to shipping channel and ice conditions.	10/10/2018 6:34 PM
106	None	10/10/2018 11:12 AM
107	I think it is good the way it is but need more people using it. I would be careful with development to a point. You may take away from local business.	10/10/2018 10:48 AM
108	none	10/10/2018 10:40 AM
109	I would restore the buildings and build a emergency shelter just in case people are boating and all the cabins are full they have a place to be safe	10/10/2018 10:20 AM
110	Modern docks, current dock is falling apart. Cleaner docking and picnic areas.	10/10/2018 10:02 AM
111	None, other than maintain the house history sites better	10/10/2018 7:23 AM
112	Make it a ORV destination.	10/10/2018 7:01 AM
113	Increased number of trails (rustic trails and not boardwalks)	10/10/2018 6:13 AM
114	Improve boat docks & slips.	10/9/2018 6:43 PM
115	Upkeep on the structures. Stories of the people that lived there.	10/9/2018 6:35 PM
116	Complete the improvement of the docks. Fix and ripped screens or windows that don't slide or seal well. Basic maintenance upkeep.	10/9/2018 4:44 PM
117	Boaters electricity and maybe some better docks.	10/9/2018 1:44 PM
118	Ma site an educational destination. The island served important needs over the years.	10/9/2018 12:55 PM
119	More and improved recreational activities and marketing of the area.	10/9/2018 11:34 AM
120	I doubt the power plant is still operational, but having power would be key for me. I love functional water/bathroom facilities. It would be nice to be able to bike around the island like you can for Mackinac island. I like the idea of transportation, since I don't always want to haul a boat up when I visit the area.	10/9/2018 10:45 AM
121	Additional small boat docking, Fish cleaning station.	10/9/2018 6:25 AM
122	Fix the buildings and dock	10/9/2018 5:38 AM
123	New docks make sure tent sites are known, Haven't been there for three years so these items may have been taken care of. Usually went two or three times a year in past. Also for waiting out storms.	10/8/2018 8:41 PM
124	Bathrooms	10/8/2018 8:30 PM
125	Put fuel in the generator and turn the island into the 21st century. Electric, running water and rebuild the docks. You have a treasure treat it like one.	10/8/2018 6:07 PM
126	None	10/8/2018 4:45 PM

## Lime Island State Recreation Area User Survey

127	The docks are probably the primary need, they are an inefficient use of the space and cannot accommodate all the cabins if full, never mind day use. Of course they are old, almost unsafe and susceptible to ice damage. Being crib docks, they would be expensive to remove, but there are probably ways to work around the cribs. The deferred maintenance to the cabins and buildings is second. These are wonderful cabins and to be ruined because of a leaking roof would be a shame. The school house and captains house are irreplaceable historical buildings and need repair. The solar system provides just the right amount of power, although not completely necessary, the power makes a few things easier, but the system is getting old and the system is tied to the cabin roof shingles. Other than that, it's just perfect.	10/8/2018 4:44 PM
128	The docks and buildings on the islands are in need of maintenance. We also noticed the hiking trails were not as clear as they used to be and the grass was very long.	10/8/2018 3:48 PM
129	Do not over develop	10/8/2018 3:38 PM
130	The docks need fixing and it appears that they are no longer making repairs to the museum or schoolhouse which is sad.	10/8/2018 3:20 PM
131	The school, superintendent's house, the docks and the cabins need some attention	10/8/2018 2:55 PM
132	A boat to ferry us from Raber to the island. We would then not have to rely on our relatives boat and could come at any time during the year. The boat would have to be big enough for us to take our kayaks.	10/8/2018 2:13 PM
133	Lower the camping rates, and the cabin rental rates.	10/8/2018 1:40 PM
134	If there were bathrooms in the cabins it would draw more people, but not sure we want that....	10/8/2018 12:43 PM
135	Obviously the dock system in the harbor needs to be repaired and perhaps expanded. There were a couple of occasions (especially on the weekends) where there were more boats than spots. Separately, it would fantastic if the poison ivy could be controlled a bit better. Difficult task, I know, but is a constant challenge with pets and kids.	10/8/2018 12:41 PM
136	Prefer campsites on the ground rather than a deck, to be further from the noisy terns, and to have an unobstructed view of the river rather than the harbor and pier.	10/8/2018 12:39 PM
137	I would advertise it more and promote it. Even though it is a secret, it is something that everyone in Michigan should be able to experience. Please consider adding a ferry service. 2 or 4 runs per day.	10/8/2018 12:19 PM
138	electricity to cabins/houses. maybe improved trails. interpretative signage. Its been some years since I was last there so maybe some of these have already been improved.	10/8/2018 11:18 AM
139	More camping	10/8/2018 11:15 AM
140	Scare away the mosquitos???	10/8/2018 10:59 AM
141	As mentioned previously, if there was enough interest and demand, it would be nice if there were bathrooms, and the dock was upgraded to provide electricity.	10/8/2018 10:41 AM
142	Maybe post signs requesting visitors NOT remove driftwood from the shoreline.	10/8/2018 10:39 AM
143	Improve docks more, upkeep of historical buildings, promote what Lime Island State Recreation Area offers more to locals.	10/8/2018 10:31 AM
144	Cabins could use a little spruce up.	10/8/2018 10:31 AM
145	Put better cock in at both Raber	10/8/2018 10:29 AM
146	better boat slips, public swimming area.	10/6/2018 11:58 AM
147	Make it more accessible and improve the facilities for boaters and fishing type people	10/5/2018 3:24 PM
148	Better dock design and maintenance on the island. Repair schoolhouse roof. Ask for volunteers for work bees on the island - 'Friends of Lime Island History Task' Group (FLIGHT)	10/5/2018 2:28 PM
149	Improve newly acquired mainland property into a rustic campground with seasonal motorboat dock space rental and kayak storage area for seasonal space rental.	10/5/2018 8:14 AM
150	Docks, bathrooms,access to island from main land.	10/4/2018 5:45 PM





## Q30 Please share any other thoughts you may have on Lime Island State Recreation Area

Answered: 88 Skipped: 138

#	RESPONSES	DATE
1	I am pleased the DNR has held on to the island and pleased that improvements may be in the making.	11/1/2018 10:20 AM
2	I would like to see the oil tanks removed. I'm embarrassed that we have to walk past them when escorting first-time visitors to the Lime Kilns. I don't think we need to preserve that part of the history.	10/31/2018 1:45 PM
3	Dockage maintained	10/28/2018 1:58 PM
4	This is a very historical area.	10/28/2018 12:37 PM
5	The remote access of this island makes it a special treat. Please do not flood it with easy access tourists.	10/28/2018 10:26 AM
6	This is our favorite spot on Earth. We love how it is now.	10/27/2018 8:53 PM
7	there are things on the island you cant find just any where plants , animals , native history, birds, kilns, living here all my life the history of the people who worked and lived there. to me the island should be appreciated not used as a party spot	10/26/2018 8:45 PM
8	Make it more accesable and advertise more so people know about it. Develop the area in Raber. Outdoor games for kids and families. Vollyball, corn hole, basketball hoops, horse shoes. Playground, TV with some local channels, news weather, etc. There is absolutely no technology in Raber. Or at least a phone that people can use in case of emergencies.	10/21/2018 1:25 PM
9	Truly a hidden gem you must experience in order to understand.	10/20/2018 6:55 AM
10	This should be kept as it is. Dont modernize it.	10/19/2018 10:42 AM
11	Can't wait to see it	10/19/2018 6:46 AM
12	I think it is great that attention is being focused on the site for improvement	10/18/2018 6:47 PM
13	This is great area with nice tent sites!	10/18/2018 6:17 PM
14	My family and friends have been coming to Lime Island for 20 years. We stay in the cabins and have seen the cabins and docks fall apart year after year. Our kids used to enjoy the school house and that has fallen apart as well. We will likely continue to stay on Lime Island but would appreciate it if the State increases its attention to the care of the island, particularly the docks and cabins.	10/18/2018 4:02 PM
15	fix it	10/18/2018 3:13 PM
16	I think it's historical value is immense. It would be a shame to lose this piece of EUP history.	10/18/2018 2:57 PM
17	there should be a ferry service there would be a lot more visitors	10/18/2018 10:27 AM
18	Please fund the further restoration and repair of the historical buildings before they deteriorate any further.	10/18/2018 7:50 AM
19	Doesn't take a lot to inspire more vibrant visitors' site. Improve buildings. Promote history. Provide tours, nicer amenities, take care of trails...all to make memories for those who find this lost gem.	10/17/2018 7:37 PM
20	I do not think people know about lime island every time I introduce someone to lime they say they never heard of it.	10/17/2018 4:47 PM
21	Not sure why visitation and lodging are low on the island. Have never really researched how well it is promoted. We think it is a great place and hate to see it getting ran down.	10/17/2018 3:29 PM
22	I really believe that the Island would get WAY more visitors and create more revenue if it was more accessible. Some people that visit the area would love to go visit and explore the island but do not have a way to get there. A shuttle service would be the perfect solution!	10/17/2018 3:00 PM



## Lime Island State Recreation Area User Survey

23	For the up coming generations I think it would be a great place to camp and relax. not like mackinaw island.....we had a difficult time finding some one to take us over.....it would be nice to have a boat once a day to make a round trip so day time people could enjoy it like we did	10/16/2018 8:06 PM
24	Na	10/16/2018 7:09 PM
25	I will look forward to visiting one day soon.	10/16/2018 2:34 PM
26	Nothing to do in this direct area to hold people here, no businesses, many local business's have closed in the area. State of MI should Parton up w/many of the local campgrounds right in the direct area to help support all the local campgrounds. Opposed to competing against other local campgrounds in this direct area. Give the local campgrounds in the area incentives to improve their facilities. Why would the state of MI want to run out another running campground in this direct area, why not come up with ideas that would compliment these long term family owned businesses. They have been supporting lime island recreation area to their customers & now you want to compete against them? Doesn't make sense!	10/16/2018 12:21 PM
27	It's perfect.	10/15/2018 8:19 PM
28	I adore the Mulberry tree. The mulberries are delicious and the tree brings back fond memories from my childhood.	10/15/2018 7:30 PM
29	I enjoyed visiting the mansion. We discussed renting one of the cabins per couple next year as part of vacation or maybe just a weekend experiment.	10/15/2018 7:15 PM
30	Sad seeing it decline, such a great part of history	10/15/2018 5:37 PM
31	Love the area	10/15/2018 3:52 PM
32	I appreciate the DNR taking charge of the historic landmark they have taken to task.	10/15/2018 3:23 PM
33	I havent been in a while but used to stay quite a bit.	10/15/2018 2:13 PM
34	I would bring countless friends from the Lower Peninsula to visit this island if there was a way to get them there. I am proud to be one of the few who lived there.	10/15/2018 2:00 PM
35	I love this area.	10/15/2018 12:11 PM
36	Lime island is a great place to visit for just a day or many nights. If the state made some much needed updates on it it would make the island much more appealing and I feel like they would get more visitors.	10/15/2018 8:17 AM
37	Caretakers have been great.	10/15/2018 6:31 AM
38	I look forward to seeing the improvements! It is needed and will benefit Lime very much. Thank you!	10/15/2018 5:54 AM
39	Would like to see power, water and better docks for lager boats.	10/15/2018 5:46 AM
40	I have been fishing and hunting on Lime Island for 30 years and hope it will remain wild and a place of solitude for my grandchildren.	10/14/2018 8:17 AM
41	Many people are unaware of this Beautiful and Historic Island .A charter or ferry would be a great Idea!	10/13/2018 9:20 PM
42	A place where you can go and be off the beaten path, not too much traffic and enjoy the deverse history and the forest trail, geology and still be able to spend the night if you like.	10/13/2018 11:52 AM
43	Please preserve Lime Island's rustic, off-the-beaten path character.	10/13/2018 11:34 AM
44	I'd prefer it not become a busy camping place, easily accessible to all. Other state parks fulfill that role.	10/13/2018 10:48 AM
45	Please keep the island rustic. Oh, I like the hiking trails but forgot to mention them earlier....	10/13/2018 10:19 AM
46	Previous years the hosts were very friendly, informative and outgoing. In 2018 the hosts did no seem to be present on the Island?	10/13/2018 8:07 AM
47	A rare place to go to "get away" Please do not overdevelop or over promote. Great place for hike in or paddle in, limited ferry service would help. Grand Island National Recreation Area is a good model for Lime Island.	10/13/2018 8:00 AM
48	What makes Lime Island for me is the way it is now it is very unique.	10/13/2018 6:21 AM



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
LANSING



KEITH CREAGH  
DIRECTOR

To: Bay Mills Indian Community  
Hannahville Indian Community  
Keweenaw Bay Indian Community  
Lac Vieux Desert Band of Lake Superior Chippewa Indians  
Sault Ste. Marie Tribe of Chippewa Indians

October 8, 2018

SUBJECT: Lime Island State Recreation Area General Management Plan

Dear President Newland:

The Parks and Recreation Division (PRD) of the Department of Natural Resources (DNR) is in the process of developing a new General Management Plan (GMP) for Lime Island State Recreation Area in Chippewa County, Michigan. The park encompasses the 932-acre island, located in the St. Mary's River about two miles from the eastern tip of Michigan's Upper Peninsula, plus about six and one-half acres on the mainland in the community of Raber. Lime Island features many historic structures associated with the island's past use for lime production and as a ship refueling depot. Seven former workers' cottages have been refurbished as rental cabins for park visitors. The recreation area also features a boat dock, seven miles of primitive hiking trails, tent campsites on wooden platforms, and is open to hunting and trapping during scheduled seasons. An archaeological review of Lime Island has identified prehistoric sites and evidence of early Native American occupancy.

The DNR uses GMPs to define a long-range planning and management strategy that will protect the natural, cultural and historic resources of the site, while considering education and recreation opportunities. A planning team, representing various specialties within the DNR, has been established and is meeting regularly to develop the GMP for this site. The plan will include designated management zones for the park and define 10-year action goals that provide specific guidance for development, stewardship of cultural and natural resources, recreation opportunities, education and interpretation opportunities and park management.

The planning process includes several opportunities for input to help guide the plan. A stakeholder focus group meeting is scheduled for October 18, 2018 from 10:00 a.m. – 12:00 p.m. at the De Tour Village Hall, 260 Superior Street, De Tour. In addition, an online survey is available at [www.michigan.gov/Limeisland](http://www.michigan.gov/Limeisland) to solicit input from park visitors, and a public meeting will be scheduled once the draft plan is developed to provide an opportunity for review and comment prior to adoption.

We would welcome the opportunity to meet with the Tribes independently to discuss the management plan process and any thoughts you may have in relation to Lime Island State Recreation Area. In addition, you are welcome to send representatives to the stakeholder focus group meeting, or the public meeting, which will be advertised in spring/summer of 2019. Please contact either Ms. Debbie Jensen, PRD Management Plan Administrator, at 517-284-6105, or myself to arrange a meeting.

For additional information on our management plan process, please visit our website at [www.michigan.gov/parkmanagementplans](http://www.michigan.gov/parkmanagementplans)

Sincerely,

Trevor VanDyke  
Tribal Coordinator  
517-284-6243

cc. Ms. Debbie Jensen, DNR  
Mr. Corey Butcher, DNR  
Eric Cowing, DNR

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MICHIGAN DEPARTMENT OF

# NATURAL RESOURCES

## - DNR NEWS -

July 10, 2019

Contact: [Debbie Jensen](#), [517-284-6105](tel:517-284-6105) or [Corey Butcher](#), [906-248-3422](tel:906-248-3422)

### **DNR seeks public input on Lime Island State Recreation Area draft general management plan**

The public is invited to provide input on a draft general management plan that will help guide the future of Lime Island State Recreation Area, located on the eastern tip of Michigan's Upper Peninsula.



The Michigan Department of Natural Resources will host a public meeting

Thursday, July 25, 6 to 8 p.m. at the Raber Township Hall, 16315 E M48 in Goetzville.

General management plans are used to define long-range planning and management strategies that protect a state park's resources while addressing recreation and educational needs and opportunities. Public input is a critical component of the planning process.

The July 25 meeting will begin with a short overview of the draft plan, followed by an open house during which the public is invited to review planning materials, provide feedback and talk to DNR staff. For those not able to attend, comments on the draft general management plan also may be sent through Aug. 9 via email to Debbie Jensen, DNR park management plan administrator, at [JensenD1@Michigan.gov](mailto:JensenD1@Michigan.gov).



A link to [Lime Island's draft general management plan](#) and information on DNR management planning can be found at [Michigan.gov/ParkManagementPlans](http://Michigan.gov/ParkManagementPlans).



The park encompasses the 932-acre Lime Island, which sits in the St. Marys River, just over 2 miles from the eastern tip of the U.P., and 6.5 acres on the mainland in the community of Raber.

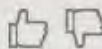
The park's location in the St. Marys shipping lane has helped shape the island's rich history as an industrial complex and refueling depot. Today, visitors can enjoy hiking, fishing, swimming and hunting, along with watching the large freighters pass by in the major shipping lane. This quiet retreat also offers a boat dock, historical interpretive buildings, rental cabins powered by solar panels and tent camping on wooden platforms.

For more information, contact Debbie Jensen at [517-284-6105](tel:517-284-6105) (TTY/TDD711 Michigan Relay Center for the hearing impaired) or [JensenD1@Michigan.gov](mailto:JensenD1@Michigan.gov), or Corey Butcher, park supervisor, at [906-248-3422](tel:906-248-3422) or [ButcherC@Michigan.gov](mailto:ButcherC@Michigan.gov).

**/Note to editors:** Accompanying photos are available below for download. Caption information follows.

- [Lime Island cabins](#): Visitors to Lime Island can enjoy a quiet retreat and then stay overnight in rental cabins, which once served as workers' cottages, and tent platforms.
- [Lime Island schoolhouse](#): On tours of the island's one-room schoolhouse and visits to other historic structures, people can get a glimpse of the area's industrial heritage. The schoolhouse, built in 1912, served kindergartners through eighth graders. It also was used as a church, social gathering location and meeting place for island residents until 1961./

Was this email useful?



*Celebrate!*  
LOOK BACK, GIVE FORWARD.

## Lime Island State Recreation Area Public Input Meeting Summary

The public was invited to share their thoughts about the Lime Island State Recreation Area draft general management plan at a public meeting hosted by the Department of Natural Resources (DNR) on Thursday, July 25, 2019 from 6 p.m. to 8 p.m. at the Raber Village Hall in Goetzville, Michigan. Information about the meeting was distributed through a press release, internet postings, and email notifications. A total of 20 attendees were recorded on the sign-in sheets.

Members of the DNR planning team briefly introduced themselves, then presented an overview of the general management plan process, Lime Island State Recreation Area, and the draft management plan contents. Following a brief question and answer period, attendees provided comment through sticky notes and comment sheets for each section of the plan, including the significance statements, zoning map, and 10-year action goals. Each attendee was provided with 5 sticky dots to indicate their action goal priorities. The responses from the meeting attendees are represented in the following tables and summaries.

Public Input Meeting Attendees		DNR Employees Present	
Name	Affiliation (optional)	Name	Title
Nicole Cornwell	Family lived on Island	Debbie Jensen	Management Plan Administrator
Dale Kuehn	Lime Island Host	Matt Lincoln	Land Liaison
Emily Smiddy	Neighbor	Eric Cowing	District Supervisor
Frank Smiddy	Neighbor	Cory Butcher	Unit Supervisor
Bob McNamara	Boater	Lisa Gamero	Cultural Resource Analyst
Mac MacDonald	MSPAC		
Jim Traynor			
Michele Traynor	(Schoolhouse records)		
Robert Seward			
Robert Warner	Local		
Leslie Opolka	Local		
Bill Green			
Kay Green			
Karen Fehner	Riparian		
Gregory Jazdyk	Local		
Mary Jones Douglas	Lived on Island		
Benedict J. Galarowic	Played/worked on Island		
Richard Busman	Public		
Greg Schmidt	Paradise Point RV Park		
Lori Schmidt	Paradise Point RV Park		

**1. Do you agree with the park Significance Statements? Would you add or change anything to the statements?**

- I want to protect the history of all the buildings and the island.
- Yes, well-crafted and capture the top points of interest.
- It's nice to see plans for improvements.
- Yes.

**2. Do you agree with the Draft Management Zones? If not, what would you change?**

- Yes.

**3. Are there any additional actions you would like to propose?**

- Only to make the Power House into showers.
- Have rustic showers and bathroom in Power House. Maybe a washer and dryer to entice people to spend more time over there.
- Ask people in the area to help with repairs over there.
- Perhaps start a program with local news stations highlighting a different state park each week of the summer.
- No.
- Conduct trail maintenance.
- Improve Docking.
- Maintain the primitive camping area.
- Advertising Lime Island – not too many people now about Lime.
- Charter service or ferry for public access.

**4. Are there any proposed actions you don't think should be included? If so, please explain.**









- No.
- Land side accommodations would be more practical. Indoor plumbing is already there. No special transport required. Island attractions can be seen in one day.
- In lieu of [state] campground, support existing local campgrounds. Make recommendations for improvements. Support them instead of competing against them.

**5. Other Comments**

- Historical site
- Keep up the good work. It is good to know Lime has not been forgotten.
- I see Lime Island as a bit of a day destination. If there are camping improvements, we would likely want to offer some transportation and guidelines/options. (No EMS to island, volunteer fire department, etc.)
- Will you be publishing the final plan?

**Additional Verbal Comments:**

- Erosion in front of fish house
- Superintendent lived in host cabin
- Parking at the docks on mainland blocks river views for residents (should park off the road)
- Take out remaining cabin materials on mainland (include removal of vault toilets in woods on private property)
- Keep former Karen's cabins site clean and maintained (mowed)

TEN-YEAR ACTION GOALS MANAGEMENT & OPERATIONS			
Action Goals	Priority	Management Zone	Votes
Complete environmental inspections in accordance with Caretaker and Operations & Maintenance Plan and implement remedial work as may be identified.	Annual	Developed Rec. Cultural Landscape	
Review and amend the SPCC & PIP Plan every three years (minimum) or when any changes to personnel, site conditions or regulations may require revisions.	Ongoing	Developed Rec. Cultural Landscape	
Complete annual inspection of campground boardwalks and camping platforms and implement repairs/ replacement as necessary.	Ongoing	Developed Rec. Natural Res. Rec. Cultural Landscape	
Review all proposed earthwork activities for impact on cultural resources.	Ongoing	Cultural Landscape Zone & Overlay	
Continue to protect and manage the common tern colony on the coal dock.	Ongoing	Ecologically Sensitive	
Coordinate message with regional tourism and recreation entities regarding safe access to the island.	Ongoing	All	
Continue to promote and support recreational fishing opportunities by maintaining shoreline access within the recreation area and improving facilities that support those fishing by boat.	Ongoing	Developed Rec. Natural Res. Rec. Primitive	
Control poison ivy in high use areas, such as campsites.	Ongoing	Developed Rec. Natural Res. Rec.	
Work to secure a seasonal unit ranger position to provide additional support for island in coordination with regional needs.	1	All	
Research and make recommendations for water transportation options to and from the island.	1	All	

SPCC- Spill Prevention and Pollution Control

PIP - Pollution Incident Prevention Plan













TEN-YEAR ACTION GOALS MANAGEMENT & OPERATIONS (Continued)			
Action Goals	Priority	Management Zone	Votes
Complete an assessment of the existing boardwalks at lime kilns and make recommendations for maintenance and repairs.	1	Cultural Landscape	●
Develop a Stewardship Plan for the park, identifying targets for conservation and related natural resource management strategies.	2	All	
Inventory artifacts in superintendent's house and schoolhouse.	3	History Education	●
Inventory artifacts in industrial complex.	3	Developed Rec. History Education	●
Explore the potential to enter into a business partnership for development and operation of overnight lodging facilities on the mainland.	3	Developed Rec.	●

TEN-YEAR ACTION GOALS INFRASTRUCTURE & DEVELOPMENT: SMALL PROJECTS			
Action Goals	Priority	Management Zone	Votes
Install site rules and property boundary markers on state-owned land on the mainland.	1	Developed Rec.	
Remove fish cleaning station on mainland (in poor state of repair).	1	Developed Rec.	
Update trail maps and provide updated trail signage and confidence markers.	2	All	● ● ● ●
Revisit Explorer Water Trail and determine site amenities and education information as may be required in coordination EUP Regional Planning and Development Commission.	2	All	

EUP – Eastern Upper Peninsula

**TEN-YEAR ACTION GOALS INFRASTRUCTURE & DEVELOPMENT: CAPITAL OUTLAY**

Action Goals	Priority	Management Zone	Votes
Implement island dock improvements in accordance with design currently in progress.	1	Developed Rec.	
Conduct a study to determine best approach to deal with the bunker fuel storage tanks, including considering removal of the remaining fuel.	1	Cultural Landscape	
Implement maintenance and repairs of boardwalks at lime kilns in accordance with assessment.	2	Cultural Landscape	
Complete a phase 1 archaeological study of the entire island.	2	All	
Implement stabilization of the lime kilns, including stabilizing the stone structures and selective vegetation removal.	2	Cultural Landscape	
Complete an exterior and interior evaluation of the schoolhouse and superintendent's house.	2	History Education	
Complete a Cultural Resource Management Plan for the industrial complex to: i. Document the historic significance ii. Preserve & restore the essential historic resources of the site iii. Support use and enjoyment of resources while minimizing negative effects	2	Cultural Landscape	
Provide specific outdoor interpretation opportunities.	2	Developed Rec. Cultural Landscape History Education	
Install new solar power distribution system on the island, evaluating the ability to include powering the septic pump and supporting other island primary utilities, and rehouse batteries.	2	Developed Rec.	
Make improvements to boat basin on the mainland to make it viable.	3	Developed Rec.	
Develop a rustic campground or other overnight accommodation on the mainland to support access to Lime Island.	3	Developed Rec.	

## **Email Comments**

In order to solicit input from those not able to attend the meeting, the draft general management plan was posted on the department's website and people were invited to email comments until August 9, 2019. Comments received through this method are presented below.

### Email Comment 1: received 7/10/19

My name is Nicole Cornwell. My family went over last year and painted the outside of the school house. We plan on doing the inside this year My goal is to protect the building that are on the Island and the Island there is a lot of History on that Island. My mom was raised on that Island. I am in the process of doing research on the Island I'm trying to go back as far as I can go so I have the whole History of the Island. The Island is a big part of our family and I will help in anyway to protect it and help with anything that needs to be done. We paid for the outside of the school house and our family did the labor. When we asked to borrow a ladder or even a stick we were told that they were not aloud to help us in any way and we could not use any equipment at all. So we hauled our own stuff over and worked our butts off on the outside. I was told a new roof was put on I asked for a picture and still have not gotten one. I have to go over and finish painting the windows. It needs new windows at the Back of the school house 90% of the outside siding needs to be replaced. The foundation is cracked and needs repair the left corner needs repair soon it has broken off. I can send picture s if you need them. Nicole Cornwell.

I have collected a lot of old photos and I have a lot of history on Lime Island.

### Email Comment 2: received 7/10/19

As a people who have stayed in the Lime Island cabins several times and a survey respondent we commend you for the document you published today. And so excited to see a picture of my Mom on page 22 looking out at the ship from the beside the cabin. Her and Dad loved going there too. We are particularly excited to see that Lime Island has a 10 year plan and not a plan of closure or restricting access. It is a true state GEM!

Thanks

Ronald and Marcia Brink

Email Comment 3: received 7/22/19

I'm a semiretired veterinarian and I live on Drummond Island. I boat to Lime Island for day visits to hike and to bird watch and pick high bush cranberries. My impression of the Island: it is beautiful gem but is in disrepair from buildings to dockage. I have not been there this year yet. I would suggest boat dockage improvement and handicap dockage with a permit. All visitors should have a park passport and Canadian visitors also and it should cost more than for a Michigan tax payer just as I'm charged to snowmobile in Canada, fair and equal fees. There needs to be a solar phone for foreign visitors to check in with border patrol. Last year we attempted to visit but 2 times dockage was not available due to Canadian visitors. I realize that there is often budget limitations. For people visiting with their own boat we should be charged a docking fee beside the park passport. There needs to be supervision with authority, perhaps students majoring in outdoor recreation and management could do their internship there in the summer. Thanks for you service, it is greatly appreciated. Dick Bennett.

Email Comment 4: received 7/26/19

I was just wondering when the rest of the debris is going to be cleaned up from the cabins? I understand that it takes time and people and equipment is hard to get.

Email Comment 5: received 8/9/19

I wish to encourage repair and upgrading of the caretakers' home and especially the school house. The schoolhouse was not open for visitors my trip to Island August 2018 because of roof in ill repair. I am encouraging the upkeep of these buildings to continue to provide historical information to visitors as there is much to share.

My father was born on the Island in 1920 and he has passed on to me furniture, photos, stories about the Island that I can donate to the buildings when they are well maintained. My grandfather worked at the coal dock; my grandmother was the Island's first school teacher. The school roster contained all my aunts and uncles. The only surviving child is now 85 years old (with a sharp memory!) that can provide stories.

My dad always said to stay on the trails so I am encouraging containment of poison ivy.

Thank you for your endeavors to keep this quiet and lovely Island available to us. It is a destination to bring younger generations to reconnect with generations past and to maintain a sense of connection to EUP roots.

Janet Hess.

# Appendix C – Opinion of Probable Costs

## State Park Funding

The primary funding sources for state park improvement and development projects are Recreation Passport sales (motor vehicle registration fee), the Park Endowment Fund (generated from royalties from oil, gas and mineral extraction on public land) and the Park Improvement Fund (from camping and other state park user fees). One-time appropriations from the state General Fund may also be earmarked for specific needs but are not guaranteed. The annual capital outlay budget for state parks varies significantly from year to year, as illustrated by the table below. The state park system is 100 years old and much of the infrastructure is aging. Identified infrastructure needs across the state park system (excluding Belle Isle Park, trail infrastructure, and state waterways infrastructure) is currently estimated to be over \$273 million.

Fiscal Year	Total Annual Capital Outlay Project Budget**	Identified Infrastructure Needs
FY19	\$ 18,925,000	\$ 273,498,836
FY18	\$ 14,520,000	\$ 264,089,912
FY17	\$ 10,400,000	\$ 285,513,487
FY16	\$ 8,661,000	\$ 312,594,557
FY15	\$ 6,051,500	\$ 303,808,685

*\*\*Capital Outlay funds dedicated to funding state park projects; excluding funds for Belle Isle Park, major emergency repairs, District Major Maintenance Projects, etc.*

With such a large gap between financial need and budget, all projects are carefully analyzed to look at innovative solutions to increase efficiencies or downsize assets.

## Estimated Cost of Proposed Developments

The following table provides an estimate of probable cost for each capital outlay development project proposed at Lime Island State Recreation Area over the next ten years. Management and operations actions and small projects, which are funded out of district or park funds, are not included in this list but may have additional financial implications. The costs are preliminary, based on information available at the time, and will be adjusted as studies, conceptual and detailed designs are completed. Where noted, the costs may only include studies or project planning, which will provide direction for development costs if determined appropriate. The costs are based on 2019 prices and should be adjusted according to the consumer price index and the market at the time of implementation.

The following action goals are ranked in terms of priority based on health, safety, and welfare, as well identified need and ease of implementation (cost, ability to implement with own staff, partnerships etc.).

- Priority 1 projects: should be addressed within the next 2 years.
- Priority 2 projects: should be addressed within 2-5 years.
- Priority 3 projects: desired but can be tackled in the next 5-10 years once funding has been identified.

<b>LIME ISLAND STATE RECREATION AREA</b>		
<b>INFRASTRUCTURE &amp; DEVELOPMENT: CAPITAL OUTLAY</b>		
<b>Action Goals</b>	<b>Priority</b>	<b>Opinion of Probable Cost</b>
Implement island dock improvements in accordance with the design currently in progress. (Costs in accordance with phase 400 50% design)	1	Design – In Progress Construction - \$750,000 to \$1,500,000
Conduct a study to determine best approach to deal with the bunker fuel storage tanks, including considering removal of the remaining fuel.	1	Study - \$100,000 Implementation - \$500,000
Implement maintenance and repairs of boardwalks at lime kilns in accordance with assessment.	2	\$30,000
Complete a phase 1 archaeological study of the entire island.	2	\$75,000
Assess condition and Implement stabilization of the lime kilns, including stabilizing the stone structures and selective vegetation removal	2	\$80,000
Complete an exterior and interior evaluation of the schoolhouse and superintendent’s house.	2	Evaluation - \$45,000 Construction - \$200,000
Exterior cabin renovations	2	\$55,000
Complete a Cultural Resource Management Plan for the industrial complex to: (i) Document the historic significance (ii) Preserve & restore the essential historic resources of the site (iii) Support the use and enjoyment of the resources while minimizing negative effects	2	\$75,000 (Analysis and planning only)

<b>LIME ISLAND STATE RECREATION AREA</b>		
<b>INFRASTRUCTURE &amp; DEVELOPMENT: CAPITAL OUTLAY (continued)</b>		
<b>Action Goals</b>	<b>Priority</b>	<b>Opinion of Probable Cost</b>
Install new solar power distribution system on the island, evaluating the ability to include powering the septic pump and supporting other island primary utilities, and rehouse batteries.	2	\$150,000
Provide specific outdoor interpretation opportunities	2	\$15,000
Develop a rustic campground or other overnight accommodation on the mainland to support access to Lime Island	3	\$100,000 (Campground: costs for other development TBD)
Make improvements to boat basin on the mainland to make it viable	3	Evaluation - \$75,000 Development - \$1,000,000
<b>TOTAL OPINION OF PROBABLE COSTS (10 YEARS)</b>		<b>\$3,250,000 to \$4,000,000</b>

*\*Excludes costs yet to be identified by studies to determine best way to proceed and costs associated with projects that are already funded.*

One major project that is funded and currently underway at Lime Island State Recreation Area is design development for harbor renovation on the island: \$500,000 has been committed from the State Waterways Fund for project design. The funds for project development (estimated to cost between \$750,000 and \$1,500,000) will be requested from the State Waterways Fund once the design development is complete and costs can be refined in accordance with the design.

Another item that is not included in the costs above, is the renovation and upkeep of many of the buildings on the island. A structural report for the schoolhouse and superintendent's house will provide information on which to base costs for implementing structural repairs and the Cultural Resource Management Plan will provide guidance for buildings and structures associated with the industrial complex.



# Appendix D – Caretaker Operations & Maintenance Plan



## MDNR CARETAKER O&M PLAN FOR DOCK AREA LIME ISLAND SITE

**Documentation Frequency** – beginning and end of season and when critical changes occur.

**Dock Maintenance** – maintain soil cover over coal within dock, remove debris from concrete pad, and maintain dock integrity to enable timely corrective actions by others.

**Recordkeeping** – Maintain copy on island and at Sault Ste. Marie District Office.

Things to observe and note are identified below (check appropriate box if present, and detail under comments)

Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

1. Tour perimeter of dock by boat and walk perimeter on dock itself. Note the following with regard to the apparent condition of the dock structure:

- new & obvious deterioration
- excessive wear
- material failures
- significant changes from last inspection
- Accumulated debris on concrete pad

Specific comments/description/location details/debris source:

\_\_\_\_\_  
\_\_\_\_\_

2. Observe condition of dock soil cover. Note evidence of soil washout or exposed coal at surface.

- Soil washout
- Exposed coal at surface

Specific comments/description/location details:

\_\_\_\_\_  
\_\_\_\_\_



Additional Comments (make additional comments on Fig 1):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Actions (office use only):

\_\_\_\_\_  
\_\_\_\_\_



# MDNR CARETAKER O&M PLAN FOR DOCK AREA LIME ISLAND SITE

**Documentation Frequency** – beginning and end of season and when critical changes occur.

**Maintenance Objectives** – maintain boundary marker integrity and cover soils over buried inert materials to enable timely corrective actions by others.

**Recordkeeping** – Maintain copy on island and at Sault Ste. Marie District Office.

Things to observe and note are identified below (check appropriate box if present, and detail under comments)

Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

1. Tour perimeter of deed-restricted area and walk across the area at several locations. Note the following with regard to the area:

Boundary markers disturbed  exposed waste materials at surface

Specific comments/description/location details:

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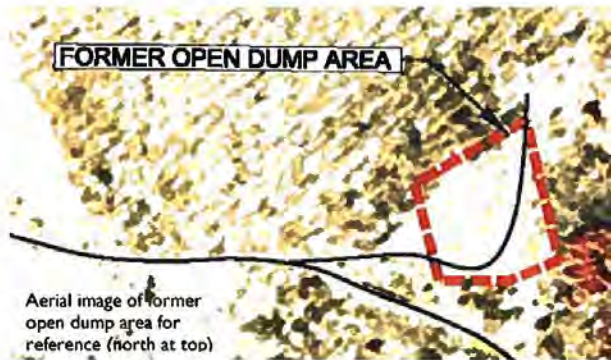
2. Observe condition of soil cover in deed-restricted area. Note evidence of soil settling or erosion at surface.

Soil settling (depressions greater than 1 foot depth)  Severe erosion/ unvegetated soil loss

Specific comments/description/location details:

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Additional Comments:

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Corrective Actions (office use only):

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**MDNR CARETAKER O&M PLAN FOR DOCK AREA  
LIME ISLAND SITE**

**Documentation Frequency** – **beginning** and **end** of season and when critical changes occur.

**Maintenance Objectives** – maintain perimeter berm integrity, protect tanks and berms from vegetative root damage, and properly dispose loose insulation to enable timely corrective actions by others.

**Recordkeeping** – Maintain copy on island and at Sault Ste. Marie District Office.

Things to observe and note are identified below (check appropriate box if present, and detail under comments)

.....  
 Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

1. Tour perimeter of tank berm area and walk across the area at several locations, particularly between the tanks. Note the following with regard to the area:

- Berm condition disturbed or eroded
- trees/shrubs larger than 4" diameter within 10' of tanks or berms
- Loose foam insulation or other debris present

Specific comments/description/location details:

\_\_\_\_\_

2. Walk around entirety of each tank, and observe their condition. Note evidence of potential tank failure or oil release.

- Evident tank breach or collapse
- Free oil observed outside of tank

Specific comments/description/location details:

\_\_\_\_\_



Additional Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Corrective Actions (office use only):

\_\_\_\_\_  
 \_\_\_\_\_





# MDNR CARETAKER O&M PLAN FOR DOCK AREA LIME ISLAND SITE

**Documentation Frequency** – beginning and end of season, monthly during season, and when critical changes occur.

**Maintenance Objectives** – maintain cover soils, control vegetation and maintain boundary marker integrity to enable timely corrective actions by others.

**Recordkeeping** – Maintain copy on island and at Sault Ste. Marie District Office.

Things to observe and note are identified below (check appropriate box if present, and detail under comments)



Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

Tour perimeter of deed-restricted area and walk across the area at several locations. Note the following with regard to the area:

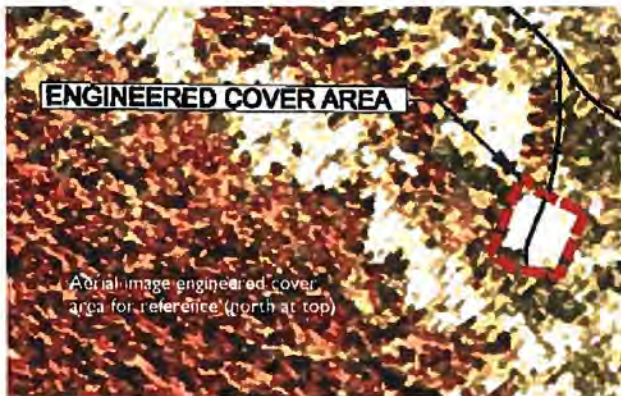
- Boundary markers disturbed  Vegetation taller than 12" present on engineered cover
- Perennial trees or shrubs present on engineered cover  Exposed Bunker-C oil
- Invasive plant species present in deed restricted area  Cover soil washout/erosion
- Exposed PVC liner or geotextile (both are black in color)
- Un-vegetated areas larger than 1 square foot over engineered cover

Specific comments/description/location details:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Additional Comments:

\_\_\_\_\_

\_\_\_\_\_

Corrective Actions (office use only):

\_\_\_\_\_

\_\_\_\_\_