

NON-MOTORIZED PATHWAY AROUND KEWEENAW BAY



IV. INVESTIGATION and ANALYSIS

elevated boardwalk, and other segments along the lakeshore will require the use of metal binwalls for erosion protection. A detail sheet showing an example of these different types of trail construction is included in Appendix 6. Based on guidance from this design manual, several of the initially considered routes were ruled out after observation, because of topographic constraints or other natural features. The observations made during these visits also allowed UPEA to determine the best actual trail placement along each of the segments, taking into account existing infrastructure (power poles, culverts, driveways, etc.) and traffic patterns. Obstructions noted in the field are also included in Appendix 5.

After removing several of the routes from consideration because of observations made in the field, UPEA consulted with several state and federal agencies to gather input about how the remaining potential routes would impact existing roadways, wetlands and surface water resources. More information on these meetings can be found in the Permitting Requirements section. With the input from these agencies, UPEA used firsthand observational experience with additional input from stakeholder meetings, comments from stakeholders, and regulatory agencies to generate a set of specific trail segments for consideration, with a single recommended route selected from among these segments. The recommended segments are described in further detail on the ensuing pages; a map depicting these segments is included in Appendix 7.

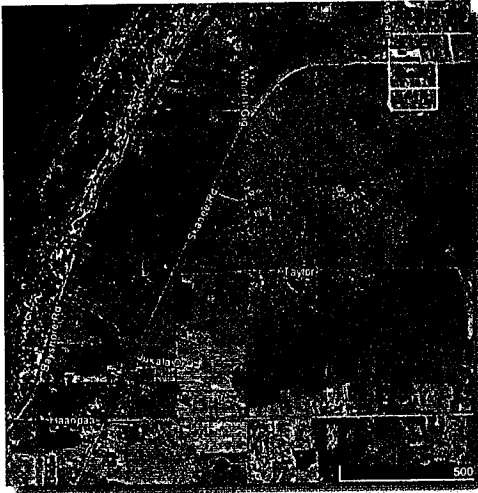
Section 1

**Zeba Community Hall to Haanpaa Road
(Estimated cost \$744,000)**

This first segment begins with ample parking space at the newly constructed Zeba Community Hall in Zeba and heads south from there following Zeba Road, Whirligig Road and Skanee Road. The total length of this section is approximately 1.97 miles. The easy-to-moderate grades along this section would be beneficial for construction purposes and several areas with views of Keweenaw Bay would provide good scenery for trail users. Construction of this section of trail would require numerous utility pole relocations if the trail was to remain within ROW, with easements anticipated along Whirligig Road and Skanee Road near Haanpaa Road no matter where the trail was located. Based on observations made, it would also be necessary to fill several areas of ditch and provide culvert extensions along portions of the trail. Parts of this section also potentially run into existing driveways, therefore driveway culverts would need to be moved and/or replaced.



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The L'Anse Township ball fields and Township Park are located near this segment, providing opportunities for connector trails to each of these centers of recreation. Another potential future connection is to the Pinery Lakes ski trails, located a couple miles east of Skanee Road near the end of Indian Cemetery Road.

Specifics: The route would begin at the Zeba Community Center parking lot, then cross Zeba Road to the south side and head west toward Whirligig Road. The trail would remain on the east side of Whirligig Road, heading south toward Skanee Road, where it would cross and travel toward L'Anse on the east side of Skanee Road. Just north of Jukala Drive, the trail would cross to the west side of Skanee Road and continue south toward L'Anse. The assumption made for trail construction and used for consideration of all alternatives is that the trail would typically be constructed as a 10-foot-wide asphalt path with 2-foot-wide shoulders on both sides. All opinions of cost are based on this type of trail construction. (Examples of a typical cross section of asphalt trail as well as of potential boardwalk and binwall construction for other segments discussed further in this report are included in Appendix 6.) Based on the alignment described, the total opinion of cost for this segment of trail is \$744,000. (Includes construction costs, engineering fees, legal, land acquisition and contingency.)

Section 2

**Bayshore Drive – Haanpaa Road to Division Street
(Estimated cost \$5.9 million)**



Based on feedback from stakeholders, UPEA understands that a route along Bayshore Drive north of L'Anse is the highest priority. This segment begins at the intersection of Haanpaa Road and Skanee Road and travels west on Haanpaa Road. The pathway then intersects with Bayshore Drive and continues south to Jentoft Road and continues on to Division Street.

The primary benefit of using this location as the trail route would be its unparalleled views and proximity to Keweenaw Bay. The entire 1.93 miles of this route would be in sight of the bay, and 1.63 of those would be right along the water. The trail would be very scenic through this area, and would certainly draw locals and tourists to visit and travel the route. The grades are relatively flat along Bayshore Drive and a trail would be easily used by walkers and bikers. There are several large potential drawbacks along this route, however. Due to the very limited space along much of Bayshore Drive, the construction of metal binwall sections along the lakeshore would be required for approximately two-

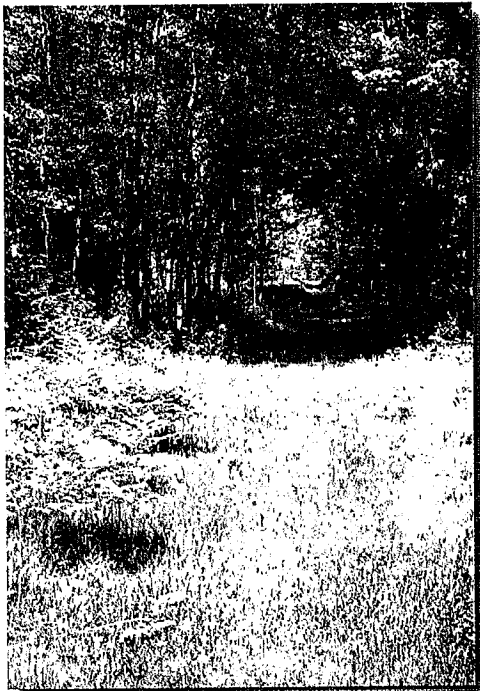
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IV. INVESTIGATION and ANALYSIS

U.S. Highway 41 and access to both the Bishop Baraga Shrine and to the Baraga State Park campground. Access to the water could be provided in the form of one or two short spur trails crossing the highway at controlled locations. A trail leading from the state park would provide additional recreation opportunities for people camping at the park.

SPECIFICS: Based on UPEA observations, the best route for the trail in this segment would begin at the entrance road to the Bishop Baraga Shrine. A future spur trail to the shrine could be included from this point. The trail would follow along the north side of Lambert Road until the road hooks south, at which point the trail would continue west along an existing private trail to the west-southwest, descending across the hill down to the railroad tracks. (A possible alternate to this route would be to enter the Shrine area and head straight west from there, paralleling the railroad tracks, which would provide additional opportunity for views of Keweenaw Bay; this alternate would join up with the previously described route at the existing private trail.) The trail would cross the railroad tracks prior to arriving at Menge Creek Road. The trail would then cross Menge Creek Road and turn back to the east, paralleling the road on the north side up to U.S. Highway 41. Along most of U.S. Highway 41, the trail would take the form of an elevated boardwalk above the wetlands along the south side of the highway, staying within the ROW. After crossing Hazel Creek, the trail would return to a paved surface and turn west along the south side of Plains Cutoff Road and then cross to the north side of Plains Cutoff Road before finishing at the south entrance drive to Baraga State Park. The total opinion of cost for construction of this segment is \$4.9 million. (Includes construction costs, engineering fees, legal, land acquisition and contingency.)

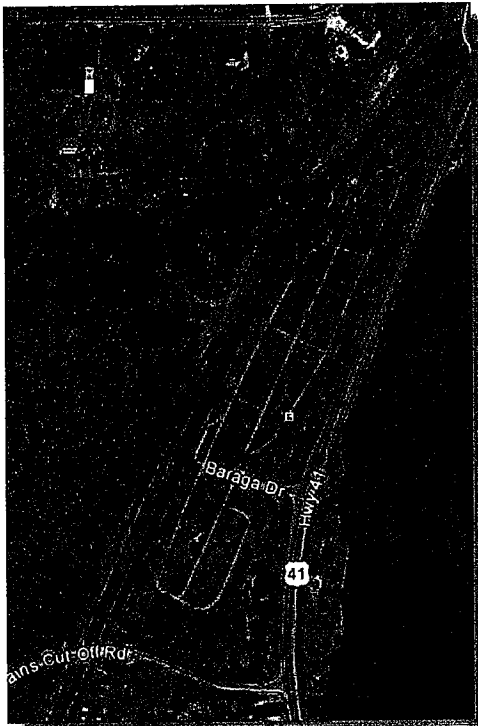


Section 5

**Baraga State Park
(Estimated cost \$138,000)**

The fifth section of proposed trail is a short path through Baraga State Park. This section simply traverses the small state park from south to north, a distance of only 0.43 miles. This section would be easily constructed due to the existing flat grades and would provide easy trail access to campers. Potential difficulties with this section include permits that would be required from the DNR to cross the park, and possible wetland impacts and railroad ROW encroachment.

feasibility study for
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SPECIFICS: Based on UPEA observations the easiest route would be to stay on existing state park roads where possible, which would be for most of the southern and central portions of the park. Some trail construction would be necessary on the north end heading out the park. An alternate would be to route the trail along existing snowmobile trails on the west edge of the park, but such a route would involve wetland impacts and railroad ROW encroachment, both of which are typically avoided if possible. Assuming the trail can mostly be constructed in the park itself, the total opinion of cost for construction of this segment is \$138,000. (Includes construction costs, engineering fees, legal, land acquisition and contingency.)

Section 6

Baraga State Park to Village of Baraga Marina (Estimated cost \$680,000)

Section 6 of the trail connects Baraga State Park to the Baraga Marina through the Village of Baraga. This section would be another easily constructed section with flat grades for ease of use. The trail would provide near constant views of Keweenaw Bay along its 1.23 mile length and also provide trail users the opportunity to access the Village of Baraga's downtown area. The north end of the section would tie into planned future development that includes a waterfront park near the existing marina and boat launch. Potential downsides to this section of trail include a crossing of U.S. Highway 41 and the railroad tracks. The proposed route passes through some existing wetlands which would require wetland/floodplain permits. Also, to utilize the existing snowmobile trail, rehabilitation of two existing bridges would be necessary. Finally, a short section of boardwalk would be necessary near the north end of this section near the marina.



SPECIFICS: UPEA previously completed a feasibility study for the Village of Baraga Downtown Development Authority and in conjunction with the Village of Baraga, MDOT and MDEQ agreed upon the most appropriate route for this section. The trail would leave Baraga State Park heading north and immediately cross Superior Avenue, continuing north along the west side of U.S. Highway 41. The trail would continue along the existing snowmobile trail on the west side of US-41 until crossing over to the east side of U.S. Highway 41 south of the Baraga BP gas station. From there, the trail would continue along the waterfront to the existing boat launch/marina and former sawmill site. The total opinion of cost for construction of this segment is \$680,000. (Includes construction costs, engineering fees, legal, land acquisition and contingency.)

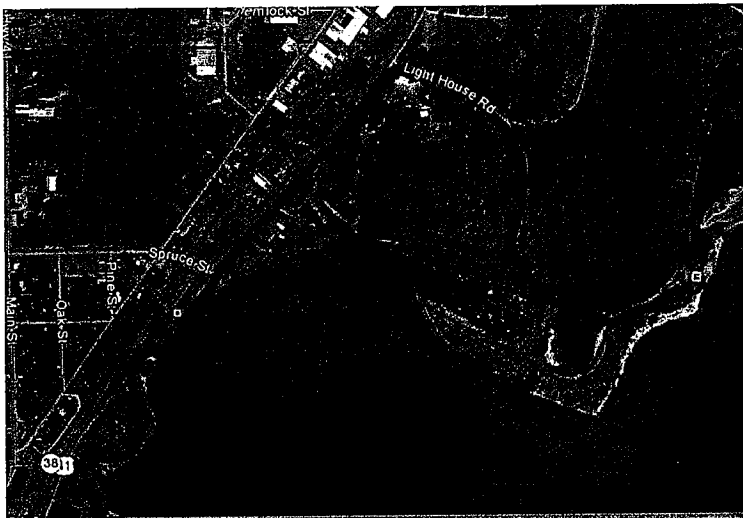
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Section 7

**Village of Baraga Marina to Sand Point
(Estimated cost \$550,000)**

The seventh and final section of the proposed trail, from the Baraga Marina to the Sand Point Recreation Area, completes the route. In addition to many views of Keweenaw Bay, this 1.47 mile section provides access to the Baraga Marina and any potential future recreational development along the Baraga waterfront, as well as access to the Sand Point Lighthouse and Ojibwa Recreation Area campground on Sand Point. Construction would be relatively easy along this stretch, because of flat grades. Potential difficulties with this section involve several driveway crossing along U.S. Highway 41 and the need to construct a new bridge over an Unnamed Tributary to Lake Superior near the north end of Baraga. There are also known burial sites within the Sand Point area that will need to be avoided. See Appendix 1 for more information.



SPECIFICS: Based on UPEA observations the easiest route would be to remain on the water side of U.S. Highway 41, heading north from the marina across the former sawmill property. The trail would continue north along the east side of U.S. Highway 41 to Lighthouse Road, where it would turn eastward and continue on the south side of Lighthouse Road out to the lighthouse and campground. The trail would end at a parking facility near the Sand Point lighthouse. With such an alignment, the total opinion of cost for construction of this segment is \$550,000. (Includes construction costs, engineering fees, legal, land acquisition and contingency.)

KBIC PUBLIC INPUT
KBIC 5-Year Recreation Plan

*For future State of Michigan, Department of Natural Resources (DNR)
Land and Water Conservation Fund (LWCF) Grant Proposals*

A discussion with:
Keweenaw Bay Indian Community Tribal Members

Other recreational providers, private and public partners, and regional organizations are welcome to attend as well

Lunch will be provided

TUESDAY, November 21st–Zeba Hall
3:00-4:30PM

We will obtain the views of our attendees on creating an inventory of our parks and recreational areas, plus any projects or activities they would like to see in or on these areas over the next five years. DNR grant guidelines and the agenda will be discussed and available for all participants.

If you cannot make the meeting; we will also be accepting public comments and have copies of the guidelines available for those that are unable to attend by:

CALLING: Jean Jokinen at the Grants Office 353-4205

E-MAILING: jjokinen@kbic-nsn.gov

MAILING: Grants Office; 16429 Beartown Road; Baraga, MI 49908

STOPPING BY: Planning and Development Office in Baraga on the Highway between the Baraga Lakeside Inn and Eagle Radio Station

COMMUNITY DEVELOPMENT STATEMENT: When the final draft is complete, all KBIC Tribal Members are afforded the opportunity to review its contents and submit comments to Jean Jokinen using the same contact information provided above. Copies of the final draft will be provided at the Tribal Center, Health Center, KBOCC, and the Library at least one month prior to Tribal Council approval.

KBIC 5-Year Recreation Plan

*For future State of Michigan, Department of Natural Resources (DNR)
Land and Water Conservation Fund (LWCF) Grant Proposals*

On November 21st, at the Zeba Hall, we held a community input meeting to obtain the views of attendees on creating an inventory of our parks and recreational areas, plus any projects or activities they would like to see in or on these areas over the next five years.

A draft of the plan will become available at the end of December for a 30 day public review and comment period prior to an open meeting for adoption by the Tribal Council in February. Please review its contents and submit comments to Jean Jokinen using the contact information provided below. Copies of the final draft will be provided at the Tribal Center, Health Center, KBOCC, the Library, and on our Homepage at www.ojibwa.com. In addition, please fill out the survey for the Baraga County Recreational plan; the survey asks if you are a Tribal member and whether you live on the reservation or not (results will be shared with the Tribe and used in our plan as well). The survey forms will be available at our Tribal Offices mentioned above and online at <http://www.wuppd.org>. Please respond to the survey by mid-December and the plan draft by the end of January.

Contact Information

CALL: 353-4205

E-MAIL: jjokinen@kbic-nsn.gov

MAIL: Grants Office; 16429 Beartown Road; Baraga, MI 49908

STOP BY: KBIC Planning and Development Office

KBIC 5-Year Recreation Plan

Tuesday, November 21, 2017

3:00 p.m.

Zeba Hall

Agenda:

- I. 3:00 p.m. – Introduction
- II. Distributing Baraga County survey, DNR grant/plan guidelines, and 5-year Recreation Plan worksheet
- III. 5-year Recreation Plan Worksheet action items:
 - a. Community Description
 - b. Administrative Structure
 - c. Inventory of Existing Parks, Natural Areas, and Recreational Facilities
 - d. Description of the Planning and Public Input Process
 - e. Goals and Objectives
 - f. Action Program
- IV. Fill out Surveys
- V. 4:30 p.m. – Conclusion

KBIC 5-Year Recreation Plan Worksheet

PLAN COMPONENTS

a. Community Description

The jurisdiction of our Recreation Plan is the L'Anse Indian Reservation in Baraga, Marquette, and Ontonagon Counties in Michigan's Upper Peninsula on Lake Superior. This Tribe was established by and signatory to the Chippewa Treaty of 1854, creating the exterior boundaries of the L'Anse Indian Reservation. The members and descendants of the Tribe retain their right to fish, hunt, and gather throughout the ceded territory (1842 Treaty of the Chippewa). The ceded territory encompasses the Western Upper Peninsula of Michigan. This plan was developed by our Natural Resource and Public Works departments and will encompass all aspects of recreation. The L'Anse Indian Reservation covers 59,067 acres with checkerboard ownership by the Tribal community. The entire reservation encompasses nearly one third of the area of Baraga County and small portions of Ontonagon and Marquette County. Baraga County is located at the base of the Keweenaw Peninsula with over 70 miles of Lake Superior shoreline. In addition to Lake Superior, there are several large river systems and large tracts of forested land.

b. Administrative Structure

The KBIC is a Federally-recognized Indian Tribe, organized pursuant to the provisions of the Indian Reorganization Act of 1934, with a Constitution and bylaws adopted and approved by the Secretary of Interior in December of 1936. It has twelve elected Tribal Council members who govern Tribal policies and regulations. The KBIC Tribal Council provides leadership, determines goals, sets priorities, implements programs, and develops codes, laws, and regulations that support community goals including park and recreation functions. These park and recreation functions have been delegated to the KBIC Natural Resource Department (NRD) and the Public Works Department.

The Tribal Council has the authority to accept grants, commit funds, and to purchase land on behalf of the Community. They delegate the NRD and Public Works to operate and advance parks and outdoor recreational opportunities thru advising and overseeing activities related to recreation and tourism. The current council approved budget from tribal funds for parks operation and maintenance, recreation programming, and capital improvements is \$118,000. Projected budgets for the remaining four years of this plan are.....

This includes planning with the Public Works Department, working with other committees and tribal departments, and collaborating with local county efforts under progress. The major focus of the Public Works Department is on our campgrounds and marinas. The NRD and Public Works team make recommendations to the Tribal Council regarding matters affecting our lands and this Tribal Recreation Plan.

c. Inventory of Existing Parks, Natural Areas, and Recreational Facilities

Describe all parks, natural areas, other public spaces, and recreation facilities within our planning area that are used by the residents:

Alligator II (Lizzies)

Located at end of Whirl-I-Gig Road in Zeba; Public beach, boat launch, and picnic site.

Boyzie Jondreau Ball Field

Located off of US-41 on Mission Road near Assinins cemetery.

Huron Bay

Shoreline access, wild rice beds, stream, and lake fishery.

Laugh's Lake Campground

Former rural campground, three homes on a small portion, and a community sugar bush.

Menge Creek Mouth and Head of L'Anse Bay

26 wetland acres where wild rice/waterfowl enhancement projects are held.

Miscellaneous

Housing Projects Playground/Basketball Courts (Lyons, Spruce, and Dakota Streets; and one in Marquette). Parking lot near Kelsey Creek for our fishermen.

Mud Lakes

North end of Mission Road: Series of small lakes with a water control structure, wildlife viewing tower, boardwalks, and animal houses. Wild rice/waterfowl projects are held in this area.

Ojibwa Campground

Open beach area, vast open space and natural areas, campgrounds, pow-wow grounds, picnic areas, walking trails, boardwalk, fishing pond, marina, cultural areas, and lighthouse.

Outdoor Event Arena

Located by the Pre-Primary Program Building; soccer, mud drag races, and winter festival.

Pequaming Beach

Located on the north end of First Sands and the south end of Pequaming off Bayshore Rd.

Zeba Ball Field

This ball field is in "lower" Zeba off of the Zeba Rd. on a bluff close to the Bayshore Road.

d. Description of the Planning and Public Input Process

We have chosen this community workshop/luncheon, the Baraga County survey, and a 30 day review period to satisfy this section.

e. Goals and Objectives

Once the recreation and open space goals for your community have been determined, they need to be translated into objectives. For example:

Goal: To provide recreation facilities to meet the needs of the community.

Objective: Construct additional soccer fields at Memorial Park.

There are currently 50 school-aged kids participating in soccer and the existing fields are schedule to capacity. In the next 5-years, 100 children in the community will be school-aged. During the community visioning session and recreation survey, the community expressed interest in programming for adult soccer leagues.

f. Action Program

Identify how you intend to meet, or work towards meeting your goals and objectives over the next five years. Specific projects that are identified during the planning process should be described and an explanation provided as to how they will meet the goals and objectives. You may also include organizational, staffing, programming, public information, operation, and maintenance actions, as well as land acquisition and facility development, if applicable.

Baraga County Recreation Survey 2017

Baraga County is currently updating its five-year recreation plan and seeks your input to help plan recreation opportunities and priorities within the county. Your response to this survey is important to ensure all points of view are considered. The survey can also be completed online (preferred method) at: www.surveymonkey.com/r/BaragaCountyRec. If you choose to complete this paper version, return it by December 13, 2017 to the location where you obtained it or to: WUPPDR, P.O. Box 365, Houghton, MI 49931.

1. Please indicate your residency status (check one):

- I am a full-time resident of Baraga County
- I am a seasonal resident of Baraga County (less than six months/year)
- I am not a resident, but I do visit Baraga County (if so, skip to question 4)
- None of the above

2. If you are a resident of Baraga County, where is your residence (check one)?

- Village of Baraga Baraga Township Spurr Township
- Village of L'Anse Covington Township Don't know
- Arvon Township L'Anse Township

3. Do you live on the L'Anse Indian Reservation (any reservation lands within the county)?

- Yes No Don't know

4. Are you a member of the Keweenaw Bay Indian Community?

- Yes No

5. How many persons in your household falls into each of the following age groups:

___ 0-5 years ___ 6-12 years ___ 13-19 years ___ 20-39 years ___ 40-64 years ___ 65+ years

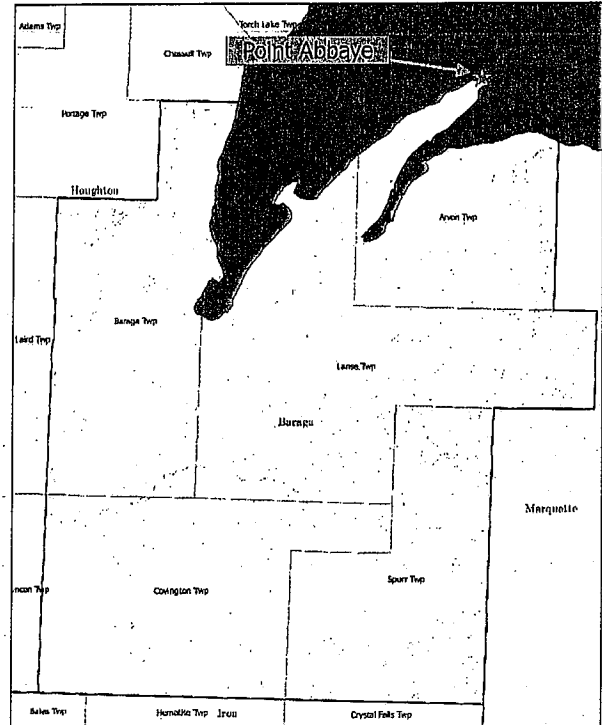
6. Does anyone in your household, including you, have a disability or require specialized recreation? Specialized recreation refers to accommodations or modifications made to recreation facilities and equipment in order to remove barriers that prevent individuals with disabilities from using the facilities or equipment.

- Yes (please explain): _____
- No

7. Does anyone in your household use or take part in any of the following? (Check ALL that apply.)

- | | | |
|--|---|--|
| <input type="radio"/> Archery | <input type="radio"/> Fishing – shore or wading | <input type="radio"/> Skiing – downhill |
| <input type="radio"/> ATV/ORV trails | <input type="radio"/> Golf | <input type="radio"/> Skijoring |
| <input type="radio"/> Backpacking | <input type="radio"/> Hiking | <input type="radio"/> Sledding |
| <input type="radio"/> Baseball fields | <input type="radio"/> Hockey | <input type="radio"/> Snowboarding |
| <input type="radio"/> Basketball courts | <input type="radio"/> Horseback riding | <input type="radio"/> Snowmobiling |
| <input type="radio"/> Bicycling (mountain) | <input type="radio"/> Hunting | <input type="radio"/> Snowshoeing |
| <input type="radio"/> Bicycling (path/road) | <input type="radio"/> Ice skating | <input type="radio"/> Soccer |
| <input type="radio"/> Boating/canoeing/kayaking | <input type="radio"/> Picnicking | <input type="radio"/> Softball fields |
| <input type="radio"/> Campgrounds – RV hookups | <input type="radio"/> Playgrounds | <input type="radio"/> Swimming |
| <input type="radio"/> Campgrounds – no hookups | <input type="radio"/> Running/jogging | <input type="radio"/> Tennis |
| <input type="radio"/> Camping on isolated sites | <input type="radio"/> Shooting | <input type="radio"/> Volleyball |
| <input type="radio"/> Fishing – boat/canoe/kayak | <input type="radio"/> Skiing – cross-country | <input type="radio"/> Other (specify below): |

Point Abbaye



The only recreation site owned by Baraga County is Point Abbaye, the northern tip of the county between Keweenaw Bay and Huron Bay (location shown at right). Currently the property contains a gravel/dirt parking area, vault toilets which are closed, and no other developed facilities. Baraga County has obtained Michigan Department of Natural Resources grant funding for a first phase of improvements in 2018, which will 1) upgrade the parking lot, and 2) install new vault toilets and an accessible picnic table. The following three questions are intended to help us better understand the public's utilization of Point Abbaye.

8. Have you or someone from your family **ever** visited Point Abbaye? (If not, or if you don't know, skip to question 11.)

- Yes No Don't know

9. In the past year, how many times did you or someone from your family visit Point Abbaye?

- 0 1-3 4-10 More than 10

10. Which, if any, of the following factors prevent you (or have prevented you in the past) from visiting Point Abbaye? (Check **ALL** that apply.)

- Didn't know it existed or was open to public Poor quality of facilities
 Didn't know how to get there Inadequate access road
 Other reasons; please specify: _____

11. Please use the space below to list additional recreation projects you would like to see in Baraga County, or provide comments/suggestions for the Baraga County Recreation Committee:

Thank you! Your input is important to help identify and prioritize recreation projects throughout the county. Survey results will be included in the draft 2018-2022 Baraga County Recreation Plan, which will be available for public review in late 2017 or early 2018. Notice of the draft's availability will be publicized at the appropriate time.

KBIC COMPREHENSIVE STRATEGIC PLAN

Value: Tradition/Culture
To have a Tribal Museum to provide opportunities to preserve, teach & learn the history, traditions & culture of the KBIC
Develop Tribal historic markings/signage on the reservation
Value: Employment/Business
To foster the growth of tourism & tourism related industry & business on the L'Anse Indian Reservation
Restore the Sand Point lighthouse & open to the public
Enhance Sand Point marina, campground & area
Pursue regional, national & international tours/visitors
Collaborate with other Tribes for tourism initiatives
Promote activities around four wheelers, snowmobiles, etc. - Activity for each season
Develop Laugh's Lake campground
Value: Healthcare/Good Health
To support a wide variety of prevention programs for members of the KBIC
Activities include: Health Fair, women's health initiative, youth/SA activities, community policing- basketball clinic, nutrition
Develop community wellness program
Value: Environment
To provide for the protection, preservation, mitigation and enhancement of the natural resources and environment of the KBIC
Continue all activities of the Sand Point Master Plan
Support sustainable Tribal tourism & local regional tourism
Develop wildlife viewing & outdoor recreation opportunities
Support snowmobile/four-wheel trail development
Continue development of the Sand Point recreational area
Value: Safety
To address safety issues within our Tribal Communities
Increase the number of street lights
Increase the number of sidewalks, walking trails & bike paths
Implement/support animal control programs
Establish a swimming certification program for youth