



**U.S. Army Corps
of Engineers**
Alaska District

ALASKA BASELINE EROSION ASSESSMENT

Erosion Information Paper - Lime Village, Alaska

Current as of January 22, 2008

Community Information

Lime Village, population 25, is on the south bank of the Stony River, 50 miles southeast of the Kuskokwim River. The village is 111 miles south of McGrath, 137 miles east of Aniak, and 185 miles west of Anchorage. The community is unincorporated and within the unorganized borough.

Description of Erosion Problem

Ice jams along Stony River push water and ice into the community airport area during spring break up. This area has the lowest topographic elevation in the vicinity and is within the floodplain of the river. The airport access road, the fill material supporting the apron and runway, and the Alaska Department of Transportation and Public Facilities (DOT&PF) airport maintenance building have been damaged during past break up events due to periodic intrusions of water and ice. Fixed wing aircraft could not provide access to the community until the runway and facilities were restored during one of the 8 break-ups in the last 20 years that resulted in considerable erosion. Most of the Stony River bank adjacent to the community is stable and somewhat protected by natural rocks with some locations subject to under-cutting where the bank then sloughs into the river and is carried away. The under-cutting and sloughing is not a concern to the community.

Potential Damages

Erosion is a threat to fuel tanks on the edge of the airport apron near the DOT&PF maintenance building. Fuel lines between the tanks, the generator building, and the school are threatened by periodic erosion in the floodplain. No protective measures have been attempted. The remainder of the community infrastructure is reported to be in no danger from erosion.

Photos and Diagrams

Photos of erosion obtained from the State of Alaska, Division of Homeland Security and Emergency Management are attached. Also, attached is a diagram depicting the linear extent of erosion in the vicinity of the airport.

References

DHSEM. 2002. http://www.ak-prepared.com/community_services/2002_interior_floods.htm *Disaster Archive*. State of Alaska, Division of Homeland Security and Emergency Management.

USACE. 2008. *Alaska Community Erosion Survey*, OMB approved number 07100001, expires September 30, 2009 administered to Fred Bobby and Ursula Graham, Lime Village traditional council, on January 21, 2008.

Additional Information

This information paper, as well as those for other communities, can be accessed on the internet at www.alaskaerosion.com. For more information please contact the Corps of Engineers, project manager at (907) 753-5694 or email Alaska.Erosion.POA@usace.army.mil



Photo 1: Airport maintenance shop building pad erosion, May 17, 2002.



Photo 2: During the spring break up 2002 flood, large chunks of ice caused erosion of the gravel airport surface, May 17, 2002.



Photo 3: The airport access road erosion damage, May 17, 2002.



Date of Aerial Photo: 29 May 01

NOTE: The extent of erosion shown on this figure is based on interviews with the community. This data has not been field verified. This figure is only intended to show areas of erosion, not rates or severity of erosion



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--- Linear Extent of Erosion



Alaska Baseline Erosion
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