

APPENDIX B

State of Alaska Department of Transportation and Public Facilities

Mining and Reclamation Plan

Mining and Reclamation Plan for Fort Yukon Airport Improvements Project

Location

The State of Alaska Department of Transportation and Public Facilities (DOT&PF) proposes to continue development of an existing material site, to the east of the airport, approximately 3,000 feet away, and develop a borrow site in support of the Fort Yukon Airport Improvements Project. The second material site is approximately two miles due east of the town center of Fort Yukon and directly adjacent to Lagoon Access Road.

Based on National Wetland Inventory maps, aerial photography, and site assessment of the area, some materials extraction will occur in areas identified as wetland. ABR, Inc. performed assessment of the first site in 2005. DOWL Engineers performed assessment of the second site in 2007.

Mining Plan

DOT&PF will minimize disturbance by incorporating previously disturbed areas into the proposed development by using existing access roads. In addition, DOT&PF plans to leave a 50-foot buffer between material site mining activities and surrounding lands. DOT&PF intend to include the wetlands acreage associated in this 50-foot buffer in the total wetland acreage mitigated for this project at a rate of \$500 per acre.

Materials available at this site are alluvial sand and gravel. The sand and gravel are layered with occasional silt seams and possible organic layers. Therefore, some silt waste may be generated during mining. Screening and crushing operations to obtain coarse aggregate for surfacing are planned to occur on a nominal 5-acre pad.

The area to be mined will first be cleared of trees and then the tundra and surface organics will be pushed in to a berm along the buffer zone. The surface layers of silts will be windrowed separately and stockpiled between the surface vegetation berm and active pit. The exposed slopes or offsets between wastes and active pits will be used so that the stockpiled berms do not migrate to the active pit.

Mining is proposed to occur in the following sequence: 1) tree removal, 2) overburden removal and stockpiling, keeping the organic layers separate to the greatest extent practicable, 3) hauling from the sites will occur as the materials are mined; however, some stockpiling may be needed as scheduling and weather dictate.

Mining is anticipated to occur to a depth of 30 feet. This will minimize the overall area footprint while creating opportunities for pond enhancement.

Reclamation Plan

The back slope of the excavation will be flattened to a slope of no greater than 2H:1V. The slopes will be covered with the stockpiled silt and surface vegetation berm material. Any berms created during mining operations will be removed and contoured to match existing terrain. These slopes and all disturbed areas surrounding pit excavation will be seeded with a mixture of native grasses and fertilized.