

Slide Name: (GP 17) Hwy 40:34 Grande Cache Lake
Inspection Date: June 26, 2003
Inspection By: Alberta Transportation and EBA Staff listed on Page 1

1.0 BACKGROUND

Refer to EBA 2002 and earlier reports for site conditions and details of risk assessment. Instrumentation was not installed at this site. This site is located along the shoreline of Grande Cache Lake with the roadway constructed as a sidehill cut/fill at the toe of a mountain slope.

The reconstruction of slope with subsurface drains, gabion retaining wall and shot (fractured) rock was completed in the fall of 2002. The details were presented in EBA's October 2002 Construction Summary report (0104-00-22537.010).

2.0 OBSERVATIONS

- The slope reconstruction was performing well. The following features were observed:
 - The toe area of the slide along the lakeshore provides some toe berming for the slope. It also covers and avoids exposing a utility line along the original ground level of the shoreline trail.
 - A 2 m high gabion retaining wall was constructed at toe of reconstructed slope.
 - Subsurface drain (herringbone drain beneath backfill and at contact with native soil) daylighted at toe of slope at gabion area.
 - Slope backfill constituted shot-rock of sandstone, conglomerate and shale material.

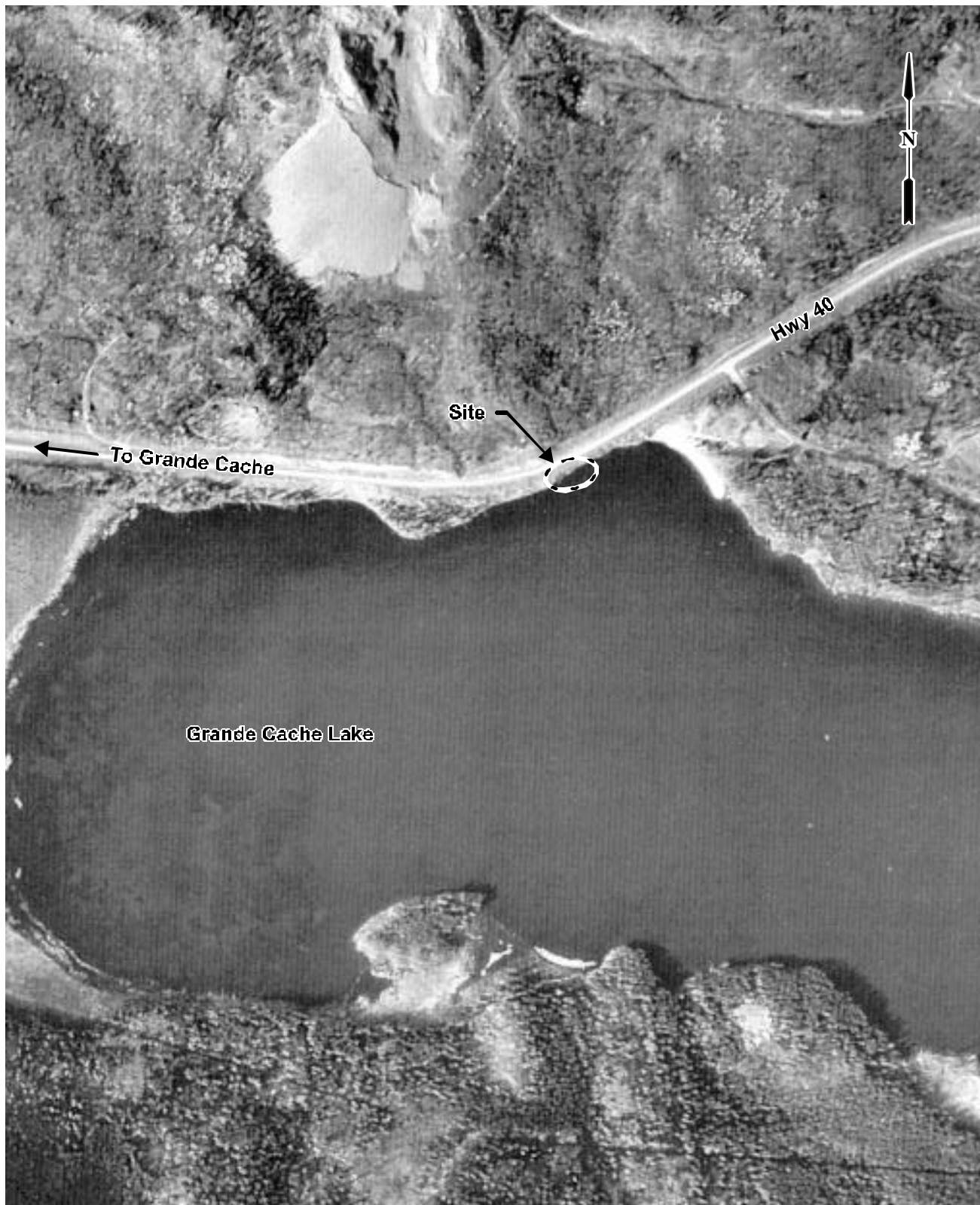
3.0 RISK ASSESSMENT

$$PF (3) * CF (7) = 21$$

Risk rating has decreased from 49 (in 2002) to 21 (in 2003) because the probability of failure (PF) has decreased from 7 to 3, following installation of the gabion wall and reconstruction of the slope.

4.0 ACTION

- Maintenance forces should continue visual monitoring of this reconstructed slope.
- Annual inspection of this site should continue.



Based on 1997 Aerial Photograph



Figure 1
Site Plan



Photo 1
Looking north towards Grande Cache
- Repaired slope in relation to roadway

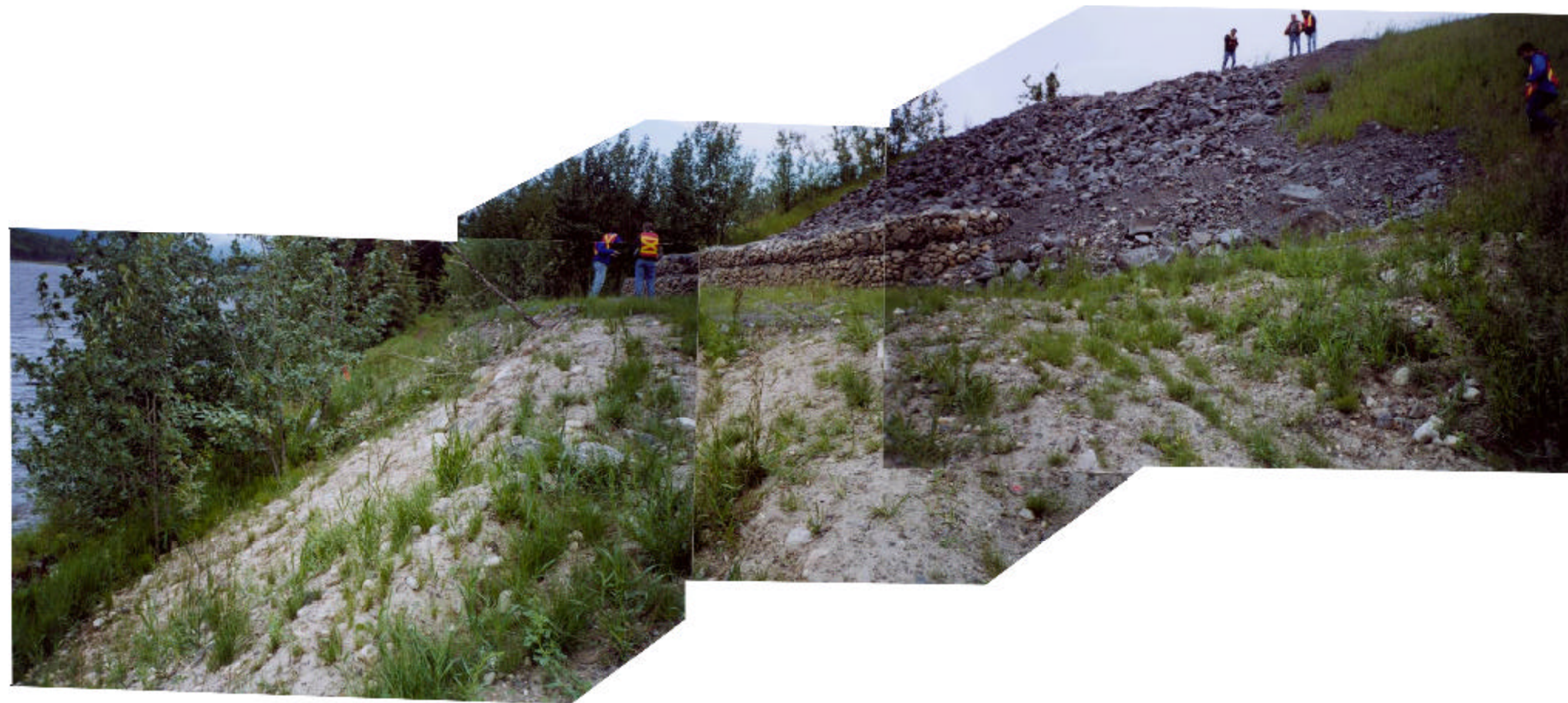


Photo 2
Looking north towards Grande Cache
- Raising elevation of shoreline trail as a berm
- Utility below/along shoreline trail
- Gabion wall
- Reconstruction of slope with shot rock
- herring bone drain at back of slope

Note: Photos taken June 2003