

SKENA AND BUCKLEY RIVERS
CROSS-SECTIONS #1 - #11 AT HAZELTON
PROJECT 76 FDC-7 (79)

A total of 35.5 man-days (field) was spent on this job (included in this is travelling from and to Terrace) during the period June 18-21, 1979 with a 6 man crew.

Eleven (11) river cross-sections (9 on the Skeena River and 2 on the Bulkley River) and eleven (11) bank sections (all on the Skeena River) between XS-4 to XS-6) were completed. Topography was taken of the groyne between XS-4 and XS-6 on Skeena River. A thalweg was done of each river in the area surveyed.

The elevations (feet) are geodetic (based on GSC 1835-J) with the TBM's and pins of each cross-section being tied in by level. The elevations and distances of the land portion of the cross-sections were obtained by stadia using a Kern DK2 transit. For the water portion the depth was established by Raytheon Depth Recorder, Model DE 719. The position control was maintained by simultaneous fixes from theodolites which were set over coordinated shore stations.

The location of the cross-sections was done by traverse with HP-2 (Distomat) and T-2 Wild Theodolite.

The point of origin (P.P. STORE) for the traverse was taken graphically from map M92 and bearings are solar grid referred to Longitude 127°.

W.R.S. Monument #1174 was also set in the north east corner of the High School in Hazelton, elevation 719.30 feet.

Mike Rank
Oct. 18/79