PROJECT SUMMARY

FLOODPLAIN SURVEY AT FORT ST. JAMES

Project # 89 09 F029

Requested by: Special Projects Section
Mr. R.W. Nichols

Survey Dates:	Personnel:	Vehicles:
May 15-27, 1989	J. Duncan,	EV90119
	B. Brazier,	EV0339
	R. Barclay T. Stewart	EV0995

Field Time: 65 man/days
Office Time: 97.5 man/days

The field survey was conducted under the supervision of Mr. J. Duncan, Assistant Party Chief, during the absence of M. Pronk, Party Chief.

The crew left Victoria on May 15, arrived in Fort St. James on May 16, after an overnight stop in Williams Lake.

Accommodations for the crew were at the Chundoo Motor Inn in Fort St. James.

The field survey was carried out under favourable conditions.

Launched riverboat (Alumaweld) at Government Wharf on Stuart Lake just north of Fort St. James.

1. Field Survey Included:

   a) Nahounli Creek-16 cross sections, thalweg, 3 structures
   b) Necoslie Creek-22 cross sections, thalweg (Stuart Lake to XS-9 only), 2 structures
   c) Stuart River-18 cross sections, thalweg (main and back channels), 2 structures
   d) Established 4 bench marks and 3 temporary bench marks

2. Survey data:

   a) Horizontal control was established by E.D.M. traverse using a total station theodolite.
   b) Vertical control was established by differential levelling for bench marks, temporary bench marks and some of the reference bolts at cross sections.
   Reciprocal trigonometic levelling using the total station theodolite for the remaining cross section reference bolts.

PROJECT SUMMARY (Continued)

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2. Survey Data (continued)

   c) Cross section topography was collected using total station theodolite.
   d) Subaqueous depths were established by an echo sounding depth recorder.
   e) Cross sections referenced with bolts.

3. Datum:

   a) Horizontal control is based on posts 80H2171, 80H2172 and 80H2180, established by the Surveys and Resource Mapping Branch.
   b) Coordinates are U.T.M Zone 10, Central Meridian 123 NAD 27.
   c) Vertical control is based on Bench Marks 79HA156, 80HA482, 80HA485, 80HA487 and Water Survey of Canada BM 6 at Gauge 08JE003 and BM 5 at Gauge 08JE001, as listed in Survey Control Data Bank Search, dated April 3, 1989.
   d) Elevations are in metres and referred to Canadian Geodetic Datum.

4. Field Books:

   Survey data is recorded on disc labelled 2519 D and in Field Book 2519 F.

5. Reference Points Established

   a) 4 Bench Marks 89HAW030-89HAW033
   b) 3 Temporary Bench Marks 4392-4394

6. Drawing/Maps:

   a) 1 Uncontrolled mosaic (Scale 1:1000), Dwg. No. 90-4-1.
   b) 6 B.C.G.S. Maps (Scale 1:5000), Mapping Project Nos. 82-024T and 83-137T, reduced to half size.

   These drawings/maps show locations of cross sections, bench marks, temporary bench marks and gauges.

7. A copy of completed data was sent to Special Projects Section, the contents of which is as follows:

   Volume 1 of 1 (Nahounli Creek, Necoslie Creek, Stuart River)