Lardeau & Duncan Rivers
Meadow Creek

Survey Project No. 9413F036

Requested by:
R. W. Nichols
Head, Floodplain Mapping
Flood Hazard Identification

Field : September 21 thru October 7, 1994
Crew Members- T. M. Dignan
B. Boyd
M. Spencer
B. Board

Office : May 1995

The field survey was carried out under favourable conditions by a four man crew under the supervision of T. M. Dignan. Standard floodplain survey practices were observed throughout.

SURVEY LOGISTICS:

A total of 45 cross sections were obtained in the project area. Cross section1 to 20 were obtained on Lardeau River, extending from the Howser Road turnoff, downstream to the confluence with Duncan River.
Cross section 19 -35 were obtained on Duncan River, extending from the spillway channel at Duncan Dam, downstream to Kootenay Lake. Cross section 36 to 38 were obtained on Duncan River backchannel downstream of Meadow Creek confluence.
Cross section M1 to M11 were located on Meadow Creek extending from the mouth, upstream 1 kilometre to Meadow Creek Road .
Road profiles were obtained at Duncan River crossing at Argenta Road (XS-31), and Lardeau River crossings at Duncan Dam (XS-19) and Hwy 31 (XS-6).

SURVEY DATA:

Horizontal control for cross sections and profiles were established by EDM traverse using a total station theodolite. Vertical control was established by reciprocal height traversing using a total station theodolite and confirmed by differential levelling. Data recorded in Field Book #2645-F1 and on diskette labelled 2645-D-1 .
Office compilation of data was carried out by M. Spencer.

DATUM:

Horizontal control for project area is referred to mapping generated cadastral ties - CD890834, CD890821, CD890844 and CD890836, obtained from mapping project 89-011. Control data obtained from Surveys and Resource Mapping Branch data bank listing dated June 20, 1994. Coordinates are Universal Tranverse Mercator, Zone 11, NAD83.
Vertical control is based on Geodetic Datum (NAVD29) . Elevations are in metres and were obtained from Surveys and Resource Mapping Branch data bank listing dated June 20, 1994.

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Data Returns:

Flood Hazard Identification :

1 volume of outdata containing-

Written profile of cross section
Photographs of cross section channel conditions
11" x 17" plot of cross section - scale as noted
1 print each of DWG. No. 95-7-1 thru 95-7-5 showing location of cross sections, gauges and monuments

Technical Surveys Section:

2 volumes containing:

complete input and outdata
Photographs of cross section channel conditions
11" x 17" plot of cross section - scale as noted
Original mylar of dwg no. 95-7-1 thru 95-7-5

June 2, 1995

Bruce Boyd
A/Head
Water Survey Unit
Technical Survey Section