

**FEATURES LEGEND**

Site investigated	△
Drillhole	○
<b>Deposit Type</b>	
clean	GRAVEL (red), sandy GRAVEL (orange), gravelly SAND (green), SAND (blue)
dirty/very dirty	(light red), (light orange), (light green), (light blue)
unknown	(pink), (yellow), (light green), (light blue)
UNKNOWN deposit type	(grey)

**Deposit Type Definitions:**

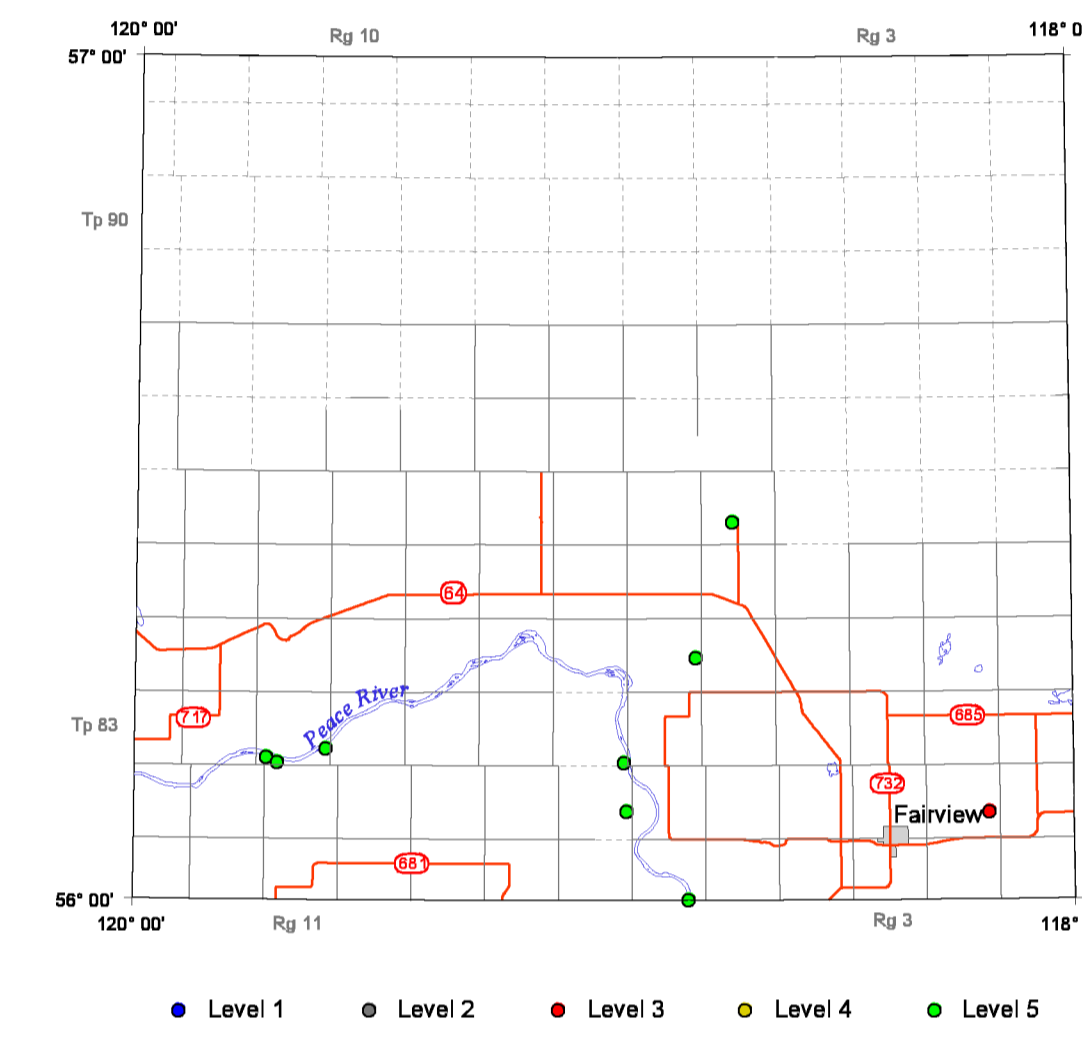
GRAVEL deposit: contains greater than 75% gravel.  
 sandy GRAVEL deposit: contains 50% to 75% gravel.  
 gravelly SAND deposit: contains 25% to 50% gravel.  
 SAND deposit: contains less than 25% gravel.  
 UNKNOWN deposit: amount of gravel unknown.  
 clean deposit: contains less than 3% silt and clay.  
 dirty deposit: contains 3% to 10% silt and clay.  
 very dirty deposit: contains greater than 10% silt and clay.  
 unknown: contains unknown percentage of mixed silt and clay.

**BASE MAP LEGEND**

River and lake	(blue line)
River - intermittent	(dashed blue line)
Road - paved	(solid red line)
Road - gravel	(dashed red line)
Road - unimproved	(dotted red line)
Railway line	(black line with cross-ticks)
Trail	(dashed black line)
Park boundary - provincial/national	(green line with inward ticks)
City/town	(grey area)
Metis settlement	(pink area)
Indian reserve	(purple area)
Township/range - surveyed	(dashed black line)
Township/range - unsurveyed	(dotted black line)
UTM, zone 11 grid	(dotted black line)

This is a common map legend. Not all units may be present on this map.

**Study Level**



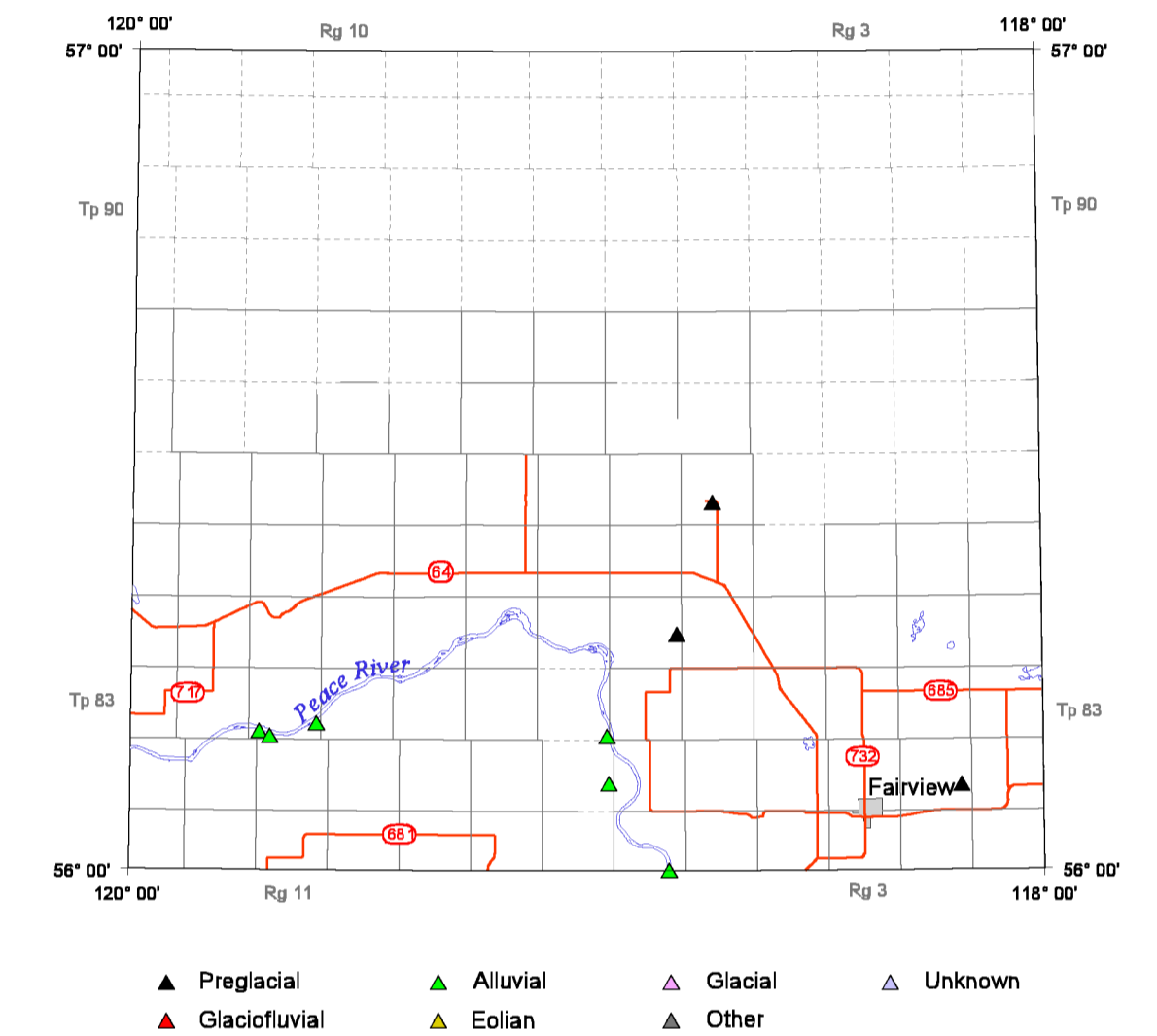
**Study Level Definitions:**

Level 1 Aggregate reserves confirmed by grid testing and sampling.  
 Level 2 Aggregate resources confirmed by multiple test holes and sampling.  
 Level 3 Sand and/or gravel confirmed by Alberta Geological Survey site investigation and limited sampling and testing.  
 Level 4 Sand and/or gravel areas assumed by Alberta Geological Survey investigation of associated sites, remote sensing and other sources of information.  
 Level 5 Potential sand and/or gravel areas identified from remote sensing and other sources of information without Alberta Geological Survey site investigation.

**References:**

Edwards, W.A.D. and Scafe, D.W. (1980): Sand and gravel resources of the Spirit River region bounded by the Peace River, Alberta-B.C. border, Smoky River and southern boundaries of map sheets 83W/13-83W/16 and 83N/13, Alberta Research Council, Alberta Geological Survey, OFR 1991-04, 29 p.  
 Jones, J.F. (1968): Geology and groundwater resources of the Peace River district, northwestern Alberta, Alberta Research Council, Bulletin 16, 143 p.

**Genesis or Geological Feature**



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GIS/Database/Cartography by:  
 M.C. Price, D.K. Chao, Z.A. Amer  
 and N.L. Clarke.

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 Information Sales  
 Alberta Geological Survey  
 Telephone: (780) 422-3767  
 Website: www.ags.gov.ab.ca

**Map 317**

**Sand and Gravel Deposits with Aggregate Potential  
 Clear Hills, Alberta (NTS 84D)**

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