

**FEATURES LEGEND**

Site investigated	△
Drillhole	○
Deposit Type	
clean	GRAVEL (Red), sandy GRAVEL (Orange), gravelly SAND (Green), SAND (Blue)
dirty/very dirty	(Light Red), (Yellow), (Light Green), (Light Blue)
unknown	(Pink), (Light 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.

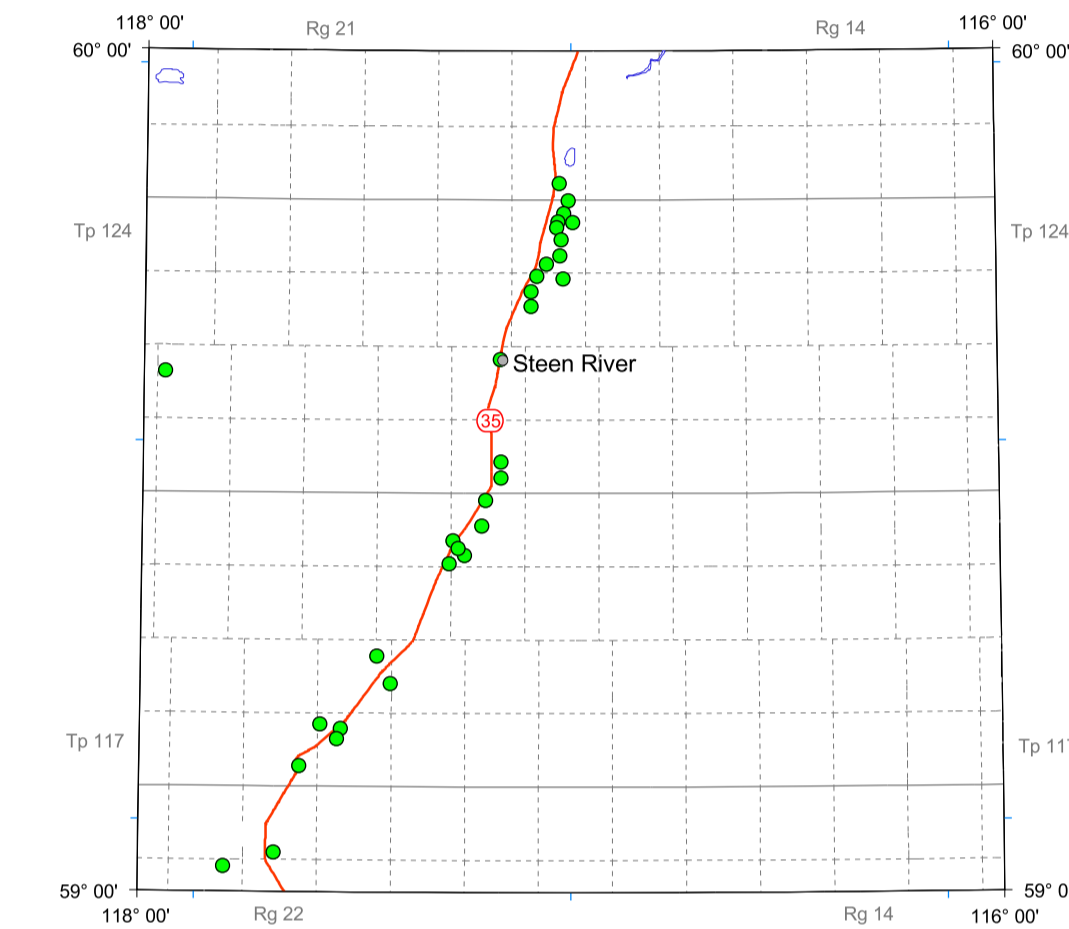
clean deposit: contains less than 3% silt and clay.  
 dirty deposit: contains 3% to 10% silt and clay.  
 very dirty deposit: contains greater than 10% silt and clay.  
 unknown: contains unknown percentage of mixed silt and clay.

**BASE MAP LEGEND**

River and lake	(Blue line)
River - intermittent	(Dashed blue line)
Road - paved	(Red line)
Road - gravel	(Orange line)
Road - unimproved	(Dashed orange line)
Railway line	(Black line with cross-ticks)
Trail	(Dashed black line)
Park boundary - provincial/national	(Green line with inward ticks)
Citytown	(Grey polygon)
Metis settlement	(Pink polygon)
Indian reserve	(Purple polygon)
Township/range - surveyed	(Black dashed line)
Township/range - unsurveyed	(Grey dashed line)
UTM, zone 11 grid	(Blue crosshair)

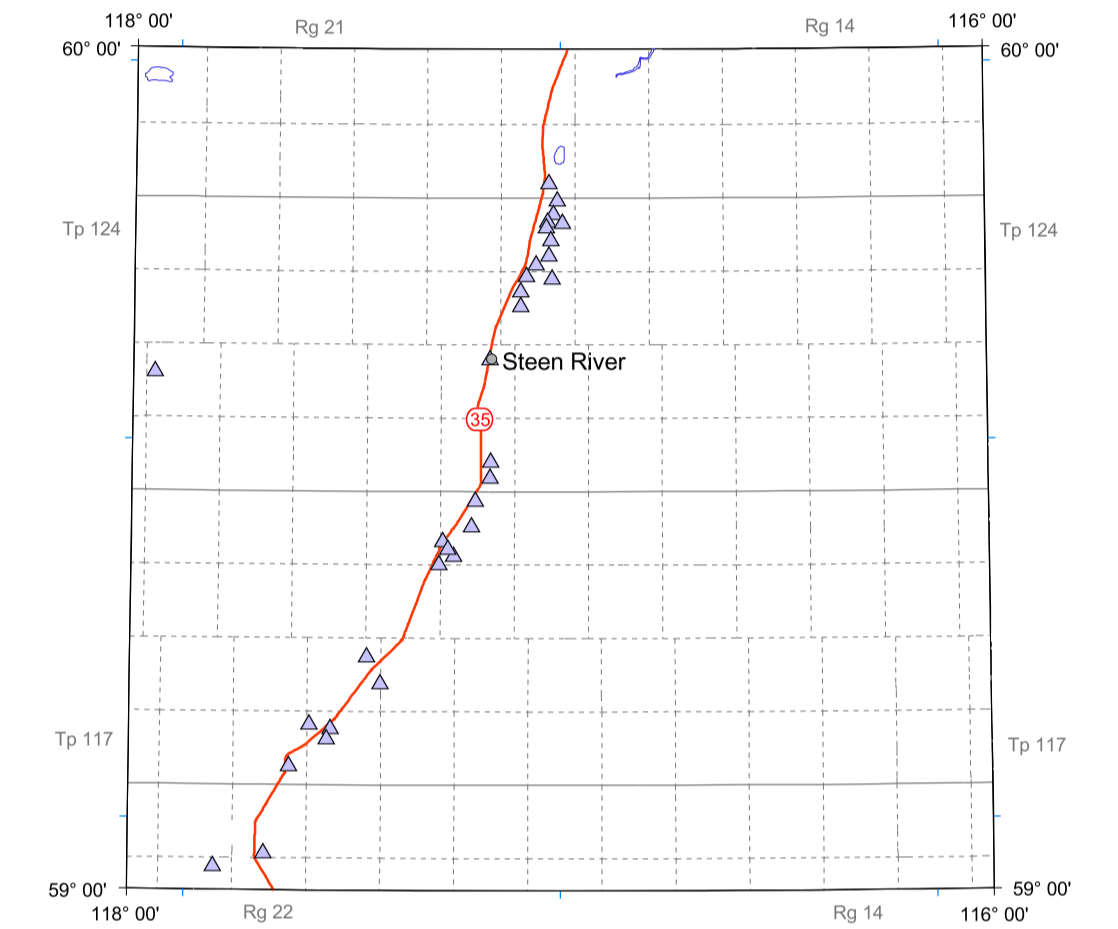
This is a common map legend. Not all units may be present on this map.

**Study Level**



● Level 1 ● Level 2 ● Level 3 ● Level 4 ● Level 5

**Genesis or Geological Feature**



▲ Preglacial ▲ Alluvial ▲ Glacial ▲ Unknown  
 ▲ Glaciofluvial ▲ Eolian

**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.

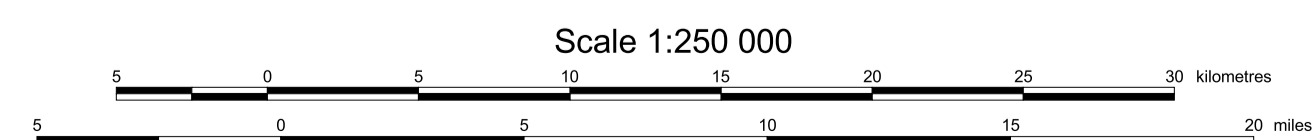
**References:**

Fox, J.C. (1986); Aggregate resources of the Steen River map area, NTS 84N; Alberta Research Council, Map A84N, scale 1:250 000.

Published 2004  
 Copies of this map may be obtained from:  
 Information Sales  
 Alberta Geological Survey  
 Telephone: (780) 422-3767  
 Web site: www.ags.gov.ab.ca

**Map 311**  
**Sand and Gravel Deposits with Aggregate Potential**  
**Steen River, Alberta (NTS 84N)**

Geology compiled by: W.A.D. Edwards, H.D. Budney, T. Berezniuk and L. Butkovic



Projection: Universal Transverse Mercator, Zone 11  
 Datum: North American Datum, 1983



**Acknowledgement:**

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

Digital base map provided by:  
 Spatial Data Warehouse

**Disclaimer:**

The Alberta Geological Survey and its employees and contractors make no warranty, guarantee or representation, express or implied, or assume any legal liability regarding the correctness, accuracy, completeness, or reliability of this publication. When using information from this publication in other publications or presentations, due acknowledgement should be given to the Alberta Energy and Utilities Board/Alberta Geological Survey.