

**FEATURES LEGEND**

Site investigated	△			
Drillhole	○			
Deposit Type	GRAVEL	sandy GRAVEL	gravelly SAND	SAND
	clean	[Red]	[Orange]	[Green]
	dirty/ very dirty	[Pink]	[Yellow]	[Cyan]
	unknown	[Light Pink]	[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.

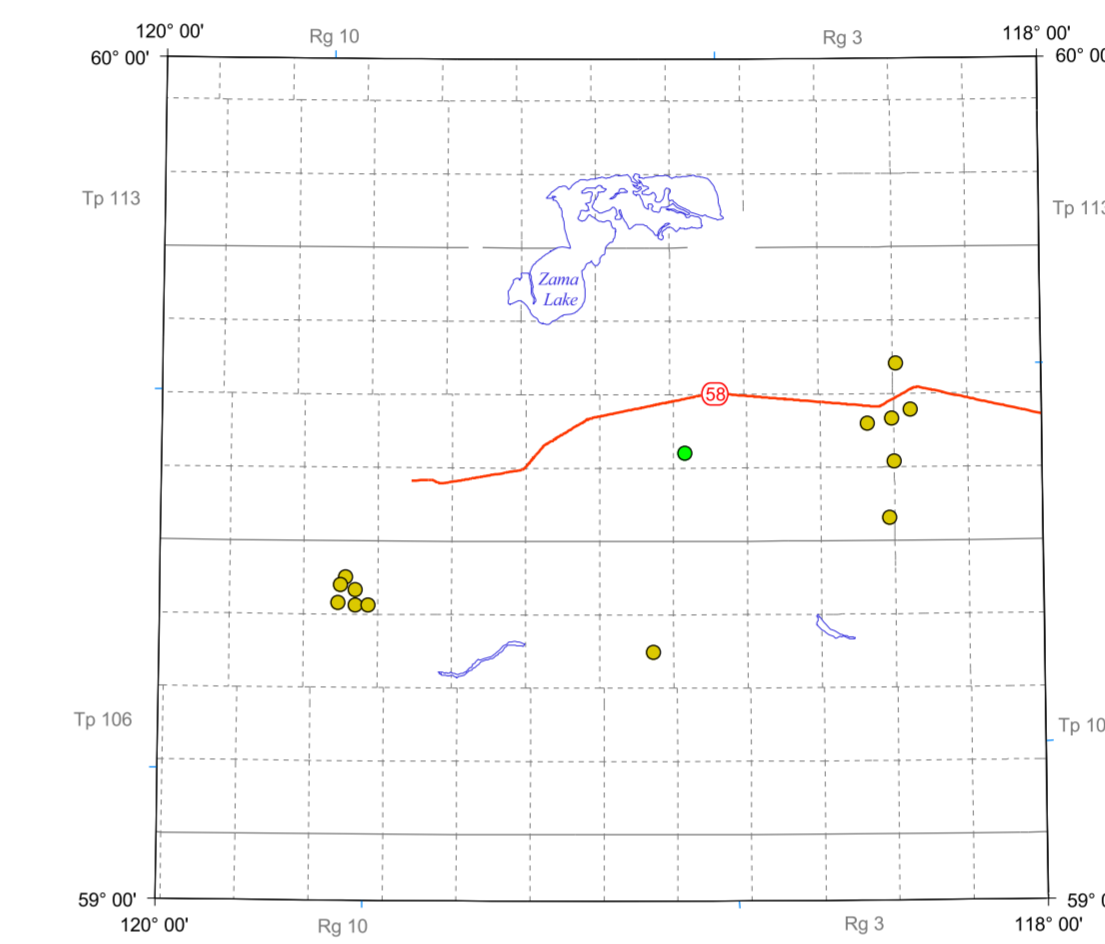
clean deposit: contains less than 3% silt and clay.  
 dirty deposit: contains 3% to 10% silt and clay.  
 very dirty deposit: contains greater than 10% silt and clay.  
 unknown: contains unknown percentage of mixed silt and clay.

**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 dashed line]
City/town	[Grey polygon]
Metis settlement	[Purple polygon]
Indian reserve	[Pink polygon]
Township/range - surveyed	[Solid black line]
Township/range - unsurveyed	[Dashed black 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

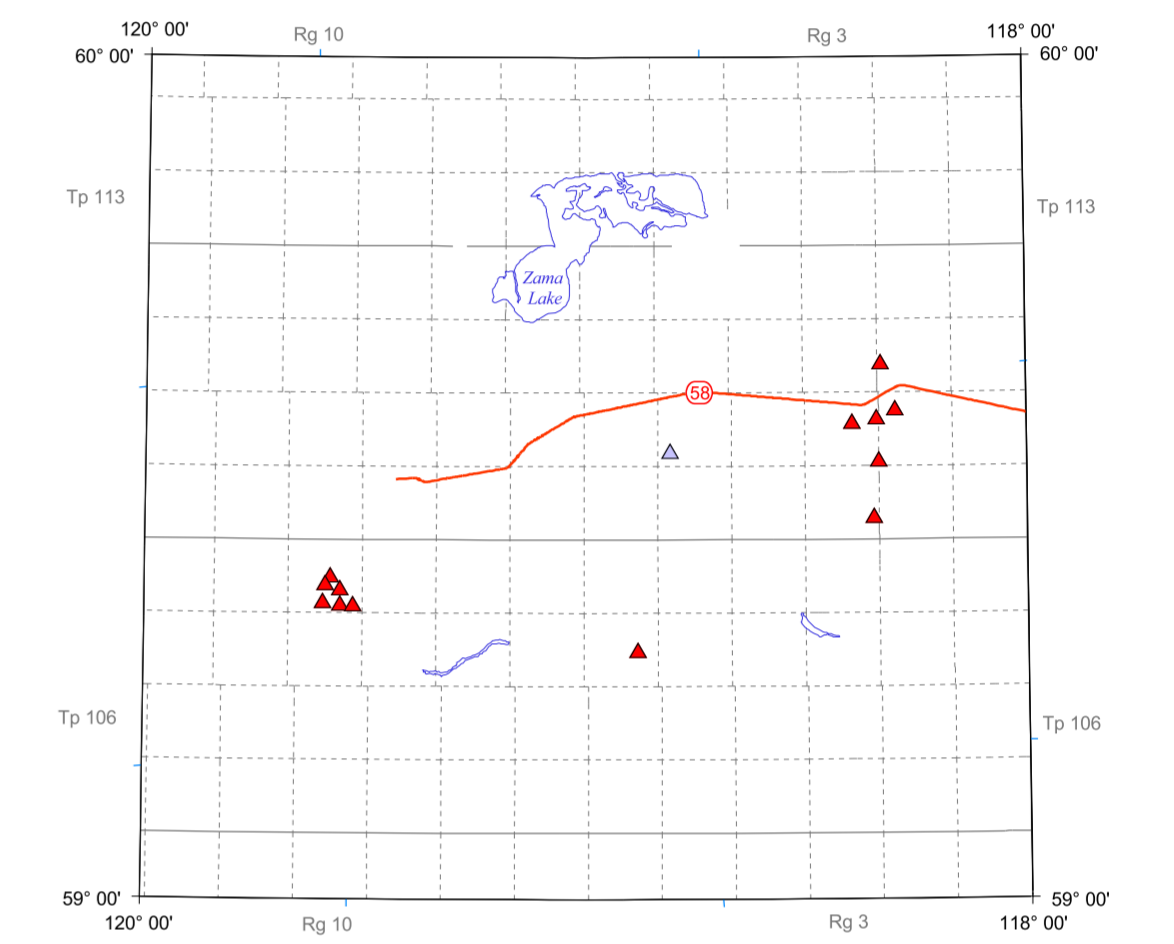
**Study Level Definitions:**

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., Richardson, R.J.H. and Sham, P.C. (1987): Aggregate resource potential by geological ranking and reserve estimates, Peace River-High Level area, Alberta; Alberta Research Council, Map 210, scale 1:500 000.  
 Fox, J.C., Richardson, R.J.H., Gowan, R. and Sham, P.C. (1987): Surficial geology of the Peace River-High Level Area, Alberta; Alberta Research Council, Map 205, scale 1:500 000.  
 Richardson, R.J.H. (1985): Aggregate resources of the Zama Lake map area, NTS 84L; Alberta Research Council, Map A84L, scale 1:250 000.

**Genesis or Geological Feature**



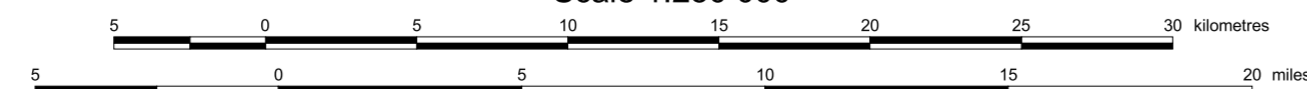
- ▲ Preglacial
- ▲ Alluvial
- ▲ Glacial
- ▲ Unknown
- ▲ Glaciofluvial
- ▲ Eolian

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

**Map 309**  
**Sand and Gravel Deposits with Aggregate Potential**  
**Zama Lake, Alberta (NTS 84L)**

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

Scale 1:250 000



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



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