

**GRANULAR-AGGREGATE RESOURCES  
OF NTS MAP AREA 13B/11**



MAP 2011-16

**LEGEND**

- Sample types (based on laboratory sieve analysis - see Table 1)
- Commonly gravel or sand, having silt-clay content < 5 percent. Deposits are commonly graded and stratified
  - Commonly silty, poorly graded and of variable grain size, having a silt-clay content (> 5 and < 15 percent) and stone size exceeding allowable limits for most geotechnical purposes (except subgrade uses) without processing (i.e., washing, screening or crushing)
  - Commonly silty silt, silt or clay samples, having silt-clay content > 15 percent

Multiple samples taken from the same site in different years are listed in order from oldest to youngest. Multiple samples taken at the same site in the same year are listed in order, from the top of the exposure to bottom.

**Note**  
This is a composite legend for all granular-aggregate resource maps. All aggregate zones, study areas, and sample types shown in the legend may not appear on this map. Aggregate zone classification is based on airphoto interpretation, field investigation and sieve analysis. Areas outside the colored zones have no known potential for granular materials; however, silty fills, rock rubble suitable for fill, and bedrock suitable for aggregate may be present. Classification criteria used on this map do not consider current or conflicting land uses, nor do they guarantee either access to, or the quality of, the material located within these zones.

**ZONES OF AGGREGATE POTENTIAL**

- Contains granular materials; probability of locating economic deposits is moderate to high
- Contains thin (less than 3 m) or discontinuous granular materials; also includes areas where extent of thicker deposits could not be determined by field investigation; probability of locating economic deposits is moderate to low
- May contain granular materials but deposits are not substantiated by field investigation; probability of locating economic deposits is moderate to low
- Material of granular composition (e.g., sandy fills and colluvium) that generally contains up to 8 percent silt-clay, but could be improved for higher grade uses by washing or screening
- Contains sand-size granular materials; high potential for economic exploitation of sand; low to moderate potential for coarse granular materials
- Eskers; sinuous ridges of granular materials; moderate to high potential for economic exploitation
- Till ridge 5-20 m high and 100-3000 m long, perpendicular to ice flow
- Till and bedrock ridge < 150 m high and 10-3000 m long, parallel to ice flow
- Study area within the dashed outline

In addition to this map data, a granular-aggregate database is accessible in the Geoscience Atlas of Newfoundland and Labrador (<http://gis.gov.nl.ca>) for all granular-aggregate maps and sample data. The database provides information on more than 13,000 samples collected from 250, 1:50,000-scale map areas in Newfoundland and Labrador.

This map was produced from airphoto interpretation and field work conducted in 2010 (Ricketts, 2011).  
GIS / digital cartography by T. Patrawaga.

The location of roads added to topographic map base are approximate.  
Elevation in metres above mean sea level. Contour interval 10 metres.

This map is subject to review and revision. Comments to the author concerning errors or omissions are invited.  
Base from maps published by Surveys and Mapping Branch, Department of Natural Resources, Ottawa, Canada.

**OPEN FILE 13B/11/0033**  
This map supersedes Map 82-197, Open File LAB067  
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**References**  
Kirby, P.T., Ricketts, R.J. and Vandenweert, D.C.  
1983. Inventory of aggregate resources in Newfoundland and Labrador: information report and index maps. Newfoundland Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, Canada, A1B 4J8.

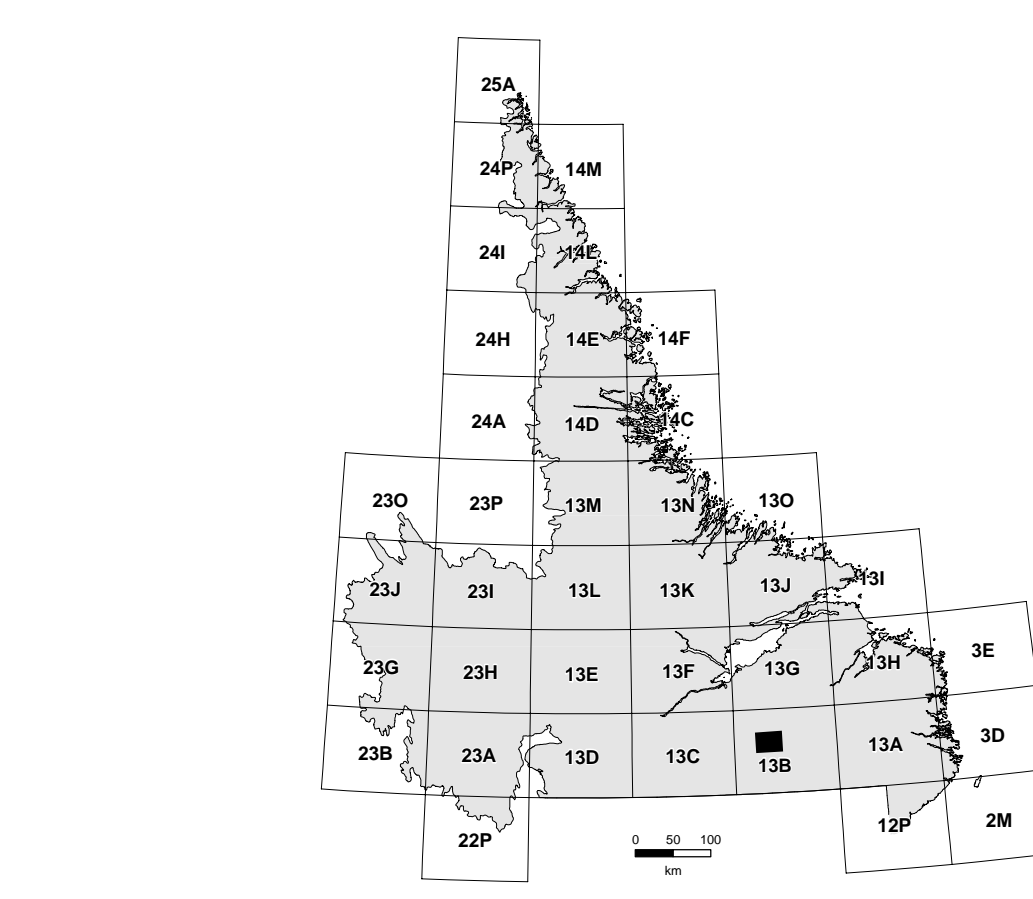
**Recommended citation**  
Ricketts, M.J.  
2011. Granular aggregate mapping along the Trans Labrador Highway from Cartwright Junction to the Churchill River, in Current Research, Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, pages 69-84.

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**Table 1. Exposure thickness (Exp), estimated deposit thickness (Dep), porosity number (PN), grain-size percentages (based on percent retained on the 63 mm sieve to the <0.075 mm mesh sieve) and gravel (Gr), sand and silt-clay (S-C) content of sample material collected in NTS area 13B/11.**

Sample	Exp (m)	Dep (m)	PN	Percent retained through sieve opening (mm/meshes)										Gr (%)	Sand (%)	S-C (%)		
				63	30	16	8	4	2	1	0.85	0.425	0.25				0.075	
100000	7.0	7.0	151	3.2	12.2	6.6	6.9	5.6	5.3	6.8	15.6	11.5	7.5	8.6	32.2	57.0	10.0	
100001	5.0	5.0	123	58.9	10.8	1.5	2.7	3.6	5.7	6.2	5.3	3.1	1.2	0.6	0.4	76.7	22.8	0.5
100002	2.0	2.0	213	23.7	27.1	17.8	9.0	5.5	4.8	4.2	3.9	2.2	1.8	0.5	0.2	81.8	17.9	0.3
100003	3.0	4.0	206	51.5	9.3	6.3	4.0	2.9	5.1	8.5	6.5	3.6	1.5	0.5	0.3	73.3	26.3	0.4
100004	2.0	2.0	202	37.8	14.5	7.8	6.1	5.8	8.4	8.2	6.1	3.1	1.3	0.6	0.4	70.5	28.9	0.5
100005	4.0	7.0	152	11.3	12.0	7.8	9.1	5.0	7.1	7.1	6.7	8.5	7.8	5.3	9.2	44.0	46.5	10.5
100006	5.0	6.0	203	25.3	6.7	4.9	6.3	6.5	5.5	5.5	7.4	7.9	6.4	5.1	1.5	48.0	38.2	13.8
100007	2.0	2.0	140	19.8	11.1	7.1	6.4	3.3	4.6	6.6	7.1	6.4	4.4	4.2	18.7	46.9	33.4	19.7
100008	4.0	4.0	143	3.9	29.8	14.3	10.0	8.4	10.7	9.9	9.2	5.2	2.2	1.4	0.8	58.4	40.3	1.2
100009	8.0	9.0	138	11.5	6.4	6.3	5.7	5.3	5.0	6.8	9.7	12.6	11.6	8.1	11.0	33.8	53.1	13.0
100010	3.0	3.0	154	27.1	15.5	11.4	9.5	10.5	9.4	8.7	5.4	1.7	0.5	0.2	0.2	71.4	28.4	0.2
100011	2.0	2.0	170	23.7	22.9	8.5	4.3	4.7	8.7	9.9	7.4	8.6	3.4	1.4	0.5	61.0	38.2	0.8
100104	1.3	1.1	110				4.5	5.1	6.6	12.0	20.3	32.4	13.8	3.6	1.8	8.9	89.1	2.7
100105	1.4	9.0	154	6.0	18.4	21.5	14.2	7.9	8.0	6.4	5.8	5.4	3.8	1.7	1.0	65.9	32.6	1.4
100106	1.5	8.5	136	0.0	3.3	19.3	25.1	20.5	13.4	8.4	5.8	2.0	0.9	0.9	0.4	63.0	36.3	0.7
100107	1.0	1.4	180	0.0	5.6	10.4	23.8	24.5	25.6	6.1	0.9	1.3	0.8	0.5	0.5	58.1	41.3	0.6
100116	5.0	5.0	157	11.6	8.8	9.4	8.7	3.6	5.8	6.1	8.7	12.4	9.8	6.7	10.3	39.2	48.8	12.0
100117	7.0	7.0	145	22.3	16.8	6.6	5.9	3.9	4.1	4.9	6.6	8.8	7.2	5.3	7.6	54.5	36.5	9.0
100118	1.5	1.5	179	9.8	3.0	6.0	6.8	5.4	6.1	8.8	12.4	14.3	10.7	7.0	9.8	29.6	58.9	11.5
100119	1.4	1.4	235	36.0	12.1	10.0	6.3	3.5	6.1	9.9	7.9	3.7	1.5	0.9	3.0	65.0	30.7	3.2
100120	1.4	1.4	14				1.5	2.5	7.7	16.7	24.0	38.2	9.3	1.6	0.6	3.4	95.7	1.0
100121	1.4	1.4	159	22.2	23.8	7.1	6.4	6.5	10.6	10.9	5.4	3.6	1.7	0.8	0.9	64.5	34.5	1.1
100126	1.3	8.0	118	10.5	19.7	10.3	13.2	13.7	14.7	3.3	2.8	1.4	0.6	1.6	54.9	43.4	1.7	
100127	4.0	5.0	164	19.1	5.7	3.5	3.8	4.4	3.8	4.7	8.4	13.3	11.0	9.2	13.1	35.4	49.2	15.4
100128	10.0	11.0	120	5.9	21.9	14.2	11.3	7.3	12.4	14.8	9.0	1.9	0.6	0.3	0.4	58.8	40.8	0.5
100129	10.0	11.0	111	0.0	7.2	6.1	6.9	11.2	13.4	18.8	15.6	11.8	4.1	2.0	1.0	30.5	69.0	1.5
100130	2.0	4.0	147	12.1	13.9	7.9	7.7	4.6	5.7	6.6	7.9	9.5	8.0	5.4	10.6	45.2	42.9	11.9
100131	4.0	4.0		10.1	2.2	5.8	4.8	2.4	4.2	5.5	7.3	11.3	10.7	9.4	26.3	24.6	46.7	28.7
100132	2.5	3.0	288	1.8	4.2	4.8	4.6	2.9	3.2	5.6	9.6	16.1	15.0	11.7	20.5	17.6	68.9	23.4
100133	2.0	2.0		0.9	1.0	1.1	1.9	8.3	27.2	39.7	20.0	0.7	0.6	0.4	69.4	29.9		
100134	2.0	2.0	268	3.8	5.7	6.4	9.6	6.1	5.0	4.0	7.1	11.5	12.3	11.7	16.8	30.1	50.2	19.7
100135	1.6	6.0	196	22.2	21.3	9.8	6.0	6.3	5.7	8.5	9.5	6.2	2.3	1.3	0.7	64.2	34.8	1.1
100136	1.1	3.0	265	21.3	18.6	10.3	8.4	5.1	6.4	6.3	6.5	6.7	4.6	2.4	2.3	63.4	33.6	2.9
100137	0.8	3.0	362	18.9	15.9	12.2	12.6	10.2	9.6	7.4	6.6	4.3	1.5	0.6	0.2	67.3	32.4	0.4
100138	4.0	2.0	32	6.3	6.3	5.4	4.0	5.3	5.4	7.5	9.5	9.3	9.0	28.7	24.2	44.8	31.0	
100139	2.0	2.0	296	23.9	2.9	5.0	7.5	2.5	5.0	5.8	6.5	8.3	7.7	6.1	18.8	41.1	38.6	20.3
100140	3.0	17.0	190	4.1	5.9	4.8	3.3	4.2	4.6	6.6	8.1	7.8	7.5	24.6	36.3	37.8	25.9	
100141	1.5	2.0	172	13.4	12.7	11.7	12.2	10.5	14.2	12.7	7.4	3.5	0.9	0.3	0.5	58.0	41.7	0.3
100192	1.1	1.99	0.0	12.4	16.6	13.3	9.9	10.2	9.9	9.9	8.5	3.5	1.8	3.9	49.6	45.9	4.3	
100193	1.0	21.0	39.8	11.3	6.3	5.7	4.5	8.5	9.2	6.8	4.6	1.8	0.8	0.5	66.6	32.6	0.7	
100194	1.0	25.4	0.0	9.5	8.6	8.9	4.7	6.6	6.4	7.0	9.3	7.9	6.6	24.5	30.6	43.3	26.1	
100195	1.8	28.0	0.0	0.3	0.7	6.8	32.4	42.8	15.2	2.3	0.0	0.4	0.2	0.0	44.2	5.8		
100196	1.8	23.2	11.3	5.6	3.8	2.9	3.5	4.6	7.0	7.7	6.4	21.4	45.7	31.1	23.2			
100197	1.0	24.9	6.7	15.0	11.8	9.2	5.2	8.8	10.7	13.3	13.6	2.9	0.6	0.3	48.5	51.0	0.4	
793380	1.0	8.0	32.5	8.3	14.3	18.3	12.6	6.2	3.8	2.0	2.0	38.7	58.8	2.5				
793381	1.0	10.0	36.9	14.0	14.7	11.0	9.0	9.0	8.7	4.3	2.1	1.3	4.7	4.0	50.7	1.9		
793382	1.0	10.0	13.4	8.8	12.5	17.0	21.0	14.3	6.5	2.8	3.7	20.1	75.5	4.4				
793383	1.0	10.0	22.7	6.9	15.9	20.9	13.0	9.0	4.6	4.2	24.8	69.8	5.4					
793384	1.0	10.0	0.0	0.2	3.1	19.3	41.9	31.0	4.1	0.4	0.0	98.5	1.5					
793385	1.0	10.0	55.3	7.6	4.0	5.2	7.5	8.2	6.0	3.8	2.6	60.9	35.6	3.5				
793384	1.0	10.0	19.1	15.0	12.1	11.2	19.1	13.3	4.8	2.8	3.6	30.4	65.3	4.2				
793395	8.0	10.0	0.0	0.6	0.2	0.3	0.5	2.3	25.3	37.0	33.8	0.4	0.6	0.4	56.6	43.0		
793396	8.0	10.0	0.0	0.9	4.9	14.3	18.3	24.4	25.9	8.5	2.8	0.7	94.4	4.9				



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