



**GRANULAR-AGGREGATE RESOURCES
OF THE BRIG BAY & NEW FEROLLE POINT
MAP SHEETS (NTS 12P/02 & 12P/03)**

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MAP 2009-11

LEGEND

- Sample types (based on laboratory sieve analysis - see Table 1)
- Symbol Definition**
- Commonly gravel or sand, having silt-clay content < 5 percent. Deposits are commonly graded and stratified.
 - ▲ Commonly silt, 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 analyses. Areas outside the coloured zones have no known potential for granular materials; however silt, silty, 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 2 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 silt and siltstone) that generally contains up to 8 percent silt-clay content, 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 coarser granular materials
 - Eskers: sinuous ridges of granular materials; moderate to high potential for economic exploitation
 - Study Area within the dashed outline

GRAN-SIZE ANALYSES

Grain-size results from the 63, 32, 16 and 8 mm mesh sieves were obtained at the sample site location by sieving between 10 and 15 kg of material. A 500 to 1000 gm split of the <8 mm material (sand-silt-clay) was retained for laboratory sieve analysis. Laboratory sieve analyses included the use of seven sieves with mesh openings of 4, 2, 1, 0.5, 0.25, 0.125, 0.062 and the <0.062 mm pan fraction. Samples were wet and/or dry sieved (Kitty et al., 1983) depending on silt-clay content and consolidation of particles.

<BCL>Table 1 </BCL> Exposure thickness (Exp), estimated deposit thickness (Dep), petrographic number (PN), grain-size percentages (based on percent retained on the 63 mm down to the <0.062 mm mesh sieve) and gravel (Grv), sand and silt-clay (SL-CL) content of sample material collected in NTS area 12P/02 & 03.

Sample	Exp (m)	Dep (m)	PN	63	32	16	8	4	2	1	0.5	0.25	0.125	<0.062	Grv	Sand	SL-CL			
783635	2.5	30	5.1	18.2	28.7	13.4	10.0	9.2	2.6	0.6	0.4	0.5	0.8	0.5	29.5	0.9	0.9			
783637	2.0	20	30	10.7	10.7	14.7	17.4	10.1	8.4	15.2	10.3	1.1	0.5	0.4	0.4	61.2	38.3	0.5		
783639	1.0	2.0	0	1.9	27.0	21.3	13.5	7.3	9.6	10.3	5.0	1.3	0.8	0.9	1.1	62.4	29.4	1.3		
783640	3.0	30	8.0	14.2	20.4	16.0	9.8	11.5	9.2	4.8	1.7	0.9	1.2	2.5	65.9	31.3	2.8			
783641	2.0	10	17.4	6.6	9.9	16.5	4.9	5.4	4.6	4.0	3.6	2.9	2.9	21.4	54.1	23.6	22.9			
783642	5.0	6.0	31	14.8	8.7	19.1	20.9	13.3	9.3	5.6	2.7	1.4	2.4	1.1	0.8	73.5	25.5	1.0		
783643	3.0	5.0	30	7.4	11.1	14.8	15.8	12.5	10.1	8.9	5.5	6.0	5.2	1.4	1.2	58.6	39.9	1.5		
783644	7.0	9.0	30	7.8	4.9	20.6	24.5	6.8	10.8	7.2	3.3	2.3	3.7	3.1	4.8	63.0	31.4	5.8		
783645	2.0	2.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4	22.3	47.0	22.4	2.7	1.9	0.0	97.4	2.6
783739	1.0	1.0	30	18.1	21.7	9.9	13.6	3.3	4.5	5.3	6.0	6.2	4.9	2.8	3.9	65.7	29.7	4.5		
783742	0.5	1.0	42	30.3	4.7	3.9	20.6	3.8	5.1	4.1	3.2	3.2	5.1	4.8	11.1	62.4	25.3	12.3		
783743	0.5	1.0	42	3.6	13.7	8.9	23.1	5.2	6.1	4.9	4.1	3.4	3.0	3.1	20.9	53.2	25.1	21.7		
783744	2.0	5.7	8.4	10.6	9.6	15.6	4.8	9.3	10.4	8.8	4.5	4.0	3.7	10.2	68.0	40.9	11.1			
783745	3.5	4.8	8.4	15.5	11.0	10.3	6.2	9.1	8.9	8.3	9.4	6.3	0.8	5.7	68.9	44.2	5.9			
783746	2.0	4.0	37	17.1	23.1	7.7	11.1	3.0	5.0	5.7	7.4	11.2	6.4	1.6	0.8	61.2	37.6	1.2		
783747	1.5	3.0	37	10.3	21.1	21.5	10.3	6.0	3.5	4.1	5.2	3.5	1.4	2.0	78.6	24.0	2.4			
783748	3.0	4.0	30	29.8	16.6	14.9	16.6	8.1	5.8	3.6	0.7	0.3	0.5	0.8	25.5	63.8	13.5	2.7		
783749	1.0	2.0	30	10.4	41.5	25.1	12.1	3.7	3.1	1.6	0.6	0.4	0.4	0.6	0.6	91.8	7.5	0.9		
783751	1.0	1.0	28	18.7	3.4	18.7	18.9	10.2	10.8	7.1	4.1	1.5	0.9	0.7	1.0	71.4	27.4	1.2		
783752	1.0	2.0	30	6.6	15.9	29.2	25.2	8.3	8.2	3.9	1.8	0.5	0.8	0.6	1.1	83.1	15.7	1.2		
783753	1.0	1.0	30	27.2	41.2	16.3	7.8	2.7	0.9	0.3	0.2	0.3	0.6	1.1	1.2	94.6	3.9	1.5		
783754	1.5	1.0	31	5.0	11.0	16.0	18.0	7.3	6.6	5.1	2.1	2.0	4.2	8.1	14.7	55.5	27.8	16.9		
783755	1.0	1.0	0	17.4	10.0	16.6	8.3	6.2	5.8	4.9	4.6	7.4	6.7	4.8	7.1	57.0	34.7	8.3		
783756	1.0	1.0	30	14.9	11.7	22.7	11.0	3.8	5.1	4.1	3.3	2.9	4.2	6.6	9.6	63.1	25.5	11.3		
783757	1.5	1.5	30	17.2	8.3	24.6	14.6	5.5	4.6	4.0	0.7	0.7	1.2	7.6	20.1	4.4	2.4			
783758	4.0	5.0	30	14.0	21.3	23.2	23.2	5.3	3.1	3.3	3.2	0.6	0.5	0.8	1.5	55.6	12.7	1.7		
783759	1.0	1.0	0	0.0	0.0	0.0	0.0	0.0	1.8	1.1	7.7	31.2	34.7	2.2	0.8	0.5	1.3	98.0	0.0	
783760	1.0	3.0	35	19.6	7.0	17.2	14.1	5.0	10.1	12.4	10.6	2.4	0.8	0.4	0.4	61.7	37.9	0.5		
783762	2.0	2.0	30	13.7	18.3	16.7	12.2	7.2	8.1	8.1	5.8	5.9	1.8	1.1	1.6	63.3	32.3	1.4		
783763	3.0	3.0	30	9.0	18.1	18.1	20.6	9.1	9.3	7.8	6.4	1.2	0.9	0.8	1.0	72.6	26.2	1.2		
783764	4.0	5.0	30	13.7	24.7	14.3	9.1	5.8	8.3	6.6	5.8	3.0	1.7	1.9	3.0	68.2	30.4	3.5		
783765	2.0	2.0	30	10.5	17.4	17.4	16.7	8.2	12.4	9.0	5.2	1.9	0.6	0.4	0.2	68.2	31.5	4.3		
783766	4.0	4.0	30	3.8	14.4	31.0	23.5	9.3	4.5	2.2	1.0	1.0	2.2	1.9	79.9	17.7	2.5			
783767	1.5	1.5	30	24.8	14.3	12.8	14.3	7.6	9.0	5.4	2.2	1.6	2.0	1.8	4.4	71.8	23.4	4.8		
783768	1.0	1.0	0	0.0	0.0	0.0	0.0	23.8	4.5	7.4	16.3	19.3	11.2	8.8	6.1	71.9	71.2	10.9		
783769	1.0	4.0	29	20.4	24.3	13.6	14.8	5.6	5.6	2.3	1.5	1.8	1.7	3.3	74.4	21.9	3.7			
783779	3.0	3.0	0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	5.5	3.3	7.9	22.8	17.0	33.2	3.9	98.7	37.4	
783781	2.0	34	13.3	23.2	22.1	18.8	2.4	2.0	1.8	2.2	2.5	2.5	2.3	3.3	6.7	79.3	13.4	7.3		
783782	2.0	3.0	0	0.0	0.0	0.0	0.0	2.9	2.7	2.1	0.9	0.8	1.2	1.3	2.7	84.5	12.5	3.0		
783784	3.0	12.6	8.4	16.8	23.1	11.1	11.5	6.8	2.5	1.2	1.3	1.6	3.2	69.2	27.3	3.6				
783785	0.5	0.5	30	20.4	14.5	16.0	23.3	8.7	7.8	3.7	0.8	0.8	0.7	1.4	1.7	60.7	12.2	2.1		
783786	1.0	1.5	28	9.9	13.3	14.1	14.1	12.8	13.0	11.3	5.7	2.5	1.1	0.8	1.4	61.0	37.4	1.6		
783787	3.0	8.9	13.3	21.3	13.3	8.3	4.9	3.8	3.0	3.0	4.3	5.0	10.6	63.1	26.0	11.9				
783788	1.0	1.5	30	8.4	22.7	17.8	14.6	5.5	1.4	0.3	0.1	0.2	0.4	0.6	96.6	3.8	0.2			
783789	1.0	1.5	30	4.0	16.2	19.2	12.1	10.6	9.2	8.9	7.5	4.4	3.2	2.4	2.4	59.5	37.6	3.0		
783790	3.0	3.0	30	5.8	45.1	30.9	10.3	2.4	1.6	0.9	0.3	0.1	0.2	0.6	1.7	93.9	4.2	1.9		
783791	3.5	3.5	30	12.6	21.5	12.6	14.3	11.7	11.4	8.8	3.0	0.4	0.3	0.5	2.9	69.8	27.2	3.0		
783792	3.0	2.8	15.1	21.7	18.9	11.1	9.3	7.8	6.4	4.1	1.8	0.9	1.5	66.8	31.4	1.7				
783797	0.5	4.5	39	32.5	19.7	8.1	16.0	4.7	2.1	1.5	2.2	4.5	3.0	2.9	2.7	79.9	16.7	3.4		
783798	2.0	3.0	30	19.9	17.0	23.4	14.2	5.3	5.4	3.9	4.0	3.8	1.5	0.9	0.7	78.5	20.6	0.9		
783799	1.5	4.0	30	12.6	11.8	15.0	15.8	9.5	9.7	14.5	8.4	0.8	0.4	0.5	0.8	62.6	36.5	0.9		
783800	1.0	2.5	30	6.0	21.2	24.9	23.4	8.8	7.0	3.6	1.4	0.7	0.8	1.5	0.7	1.4	82.2	16.3	1.5	
783801	2.0	5.0	30	3.8	28.5	21.8	17.3	6.3	6.6	6.3	5.3	1.9	0.9	0.6	0.7	70.0	23.1	0.9		
783802	2.0	4.0	30	17.0	17.7	14.4	15.0	5.3	6.7	10.7	7.8	2.8	7.0	0.6	1.2	61.1	30.6	1.4		
783803	2.0	5.0	34	14.8	11.3	28.3	21.2	6.7	5.3	4.9	1.5	0.5	0.5	1.0	1.0	80.7	18.3	1.1		
783804	3.0	4.0	30	19.8	11.7	11.1	4.3	6.1	6.2	5.6	2.0	0.4	0.5	0.6	0.7	75.5	21.7	0.8		
783807	1.0	1.0	30	22.3	20.5	10.2	10.2	8.4	4.9	4.2	3.0	2.4	2.6	3.0	8.1	68.6	21.5	8.9		
783808	1.0	1.0	36	3.1	9.4	11.7	13.3	11.1	11.1	7.7	6.1	6.6	9.1	5.0	7.7	45.9	45.2	8.0		
783810	5.0	5.0	30	12.8	23.5	13.8	13.8	7.3	7.3	6.0	4.2	2.1	1.5	1.9	5.8	60.4	24.3	6.3		
852011	4.0	6.0	31	2.5	2.3	2.8	0.0	12.1	6.6	2.6	0.9	0.9	4.6	15.1	43.4	16.6	29.8	53.6		
852012	1.0	5.0	28	1.6	0.9	1.4	0.0	20.1	30.5	24.7	6.7	0.8	0.9	2.7	3.2	19.1	70.7	10.3		
852013	0.8	4.0	24	12.6	29.7	19.9	13.9	6.8	5.4	4.8	2.4	1.2	0.9	1.5	2.8	79.5	17.3	3.2		
852014	1.4	5.0	31	0.0	15.6	18.9	24.7	9.8	7.8	5.8	4.2	2.9	2.1	1.9	6.3	66.5	26.7	6.8		
852015	0.6	6.0	13	23.0	8.9	11.2	17.1	5.8	6.6	6.2	5.3	4.2	2.7	2.8	6.2	64.6	28.5	6.9		
852016	4.0	5.0	27	12.6	31.7	17.5	9.8	4.5	3.8	5.0	4.8	3.0	1.6	2.0	3.8	75.0	20.7	4.3		
852017	1.0	5.0	17	13.1	11.5	16.4	18.0	9.9	5.4	4.4	3.3	2.5	2.4	3.1	9.6	64.4	22.9	10.7		
852018	3.8	6.0	17																	