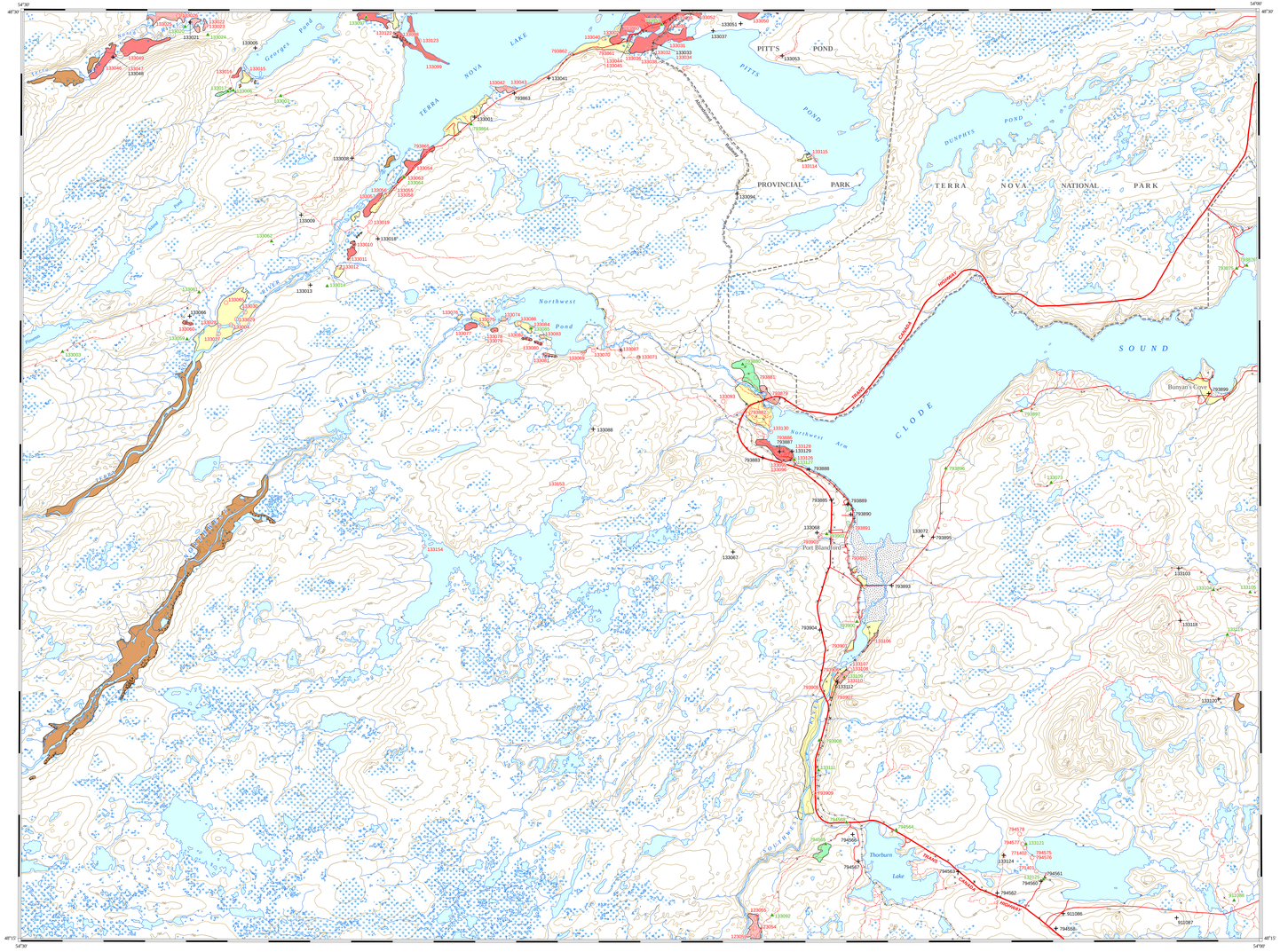
Newfoundland Labrador

Natural Resources



MAP 2014-03

PORT BLANDFORD

NEWFOUNDLAND AND LABRADOR

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Kilometres

GRANULAR-AGGREGATE RESOURCES OF THE PORT BLANDFORD MAP AREA (NTS 2D/08)

MAP 2014-03

LEGEND

Sample types (based on laboratory sieve analysis - see Table 1)

Sample Symbol	Definition
○	Commonly gravel or sand, having silt-clay content < 5 percent. Deposits are commonly graded and stratified
▲	Commonly till, 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 till, silt or clay samples, having silt-clay content > 15 percent
×	Site observation – no sample collected

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 silty tills, 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 tills 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 coarser granular materials
- Eskers: sinuous ridges of granular materials; moderate to high potential for economic exploitation

In addition to this map data an aggregate database is accessible in the Geoscience Atlas of Newfoundland and Labrador (http://gis.geosurv.gov.nl.ca) for all granular-aggregate maps and sample data. The database provides information on more than 13 000 samples collected from 230, 1:50 000-scale-map areas in Newfoundland and Labrador.

This map was produced from airphoto interpretation and field work (Environmental Geological Section, 1983; Ricketts, 2006).

The location of roads added to topographic map base are approximate.

Elevation in feet above mean sea level. Contour interval 50 feet.

Digital Cartography by T. Pattanavage.

Copies of this map may be obtained from the Geoscience Publication and Information Section, Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, Canada, A1B 4J6.

This map is subject to revision 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 002D/08/0806

This map supercedes Map 2006-09, Open File 002D/08/0639

PUBLISHED 2014

Department: http://www.nr.gov.nl.ca/nr/
Geological Survey: http://www.nr.gov.nl.ca/nr/mines/geoscience/
E-mail: pub@gov.nl.ca

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Environmental Geology Section

1983: 1:50 000 scale aggregate resource maps outlining zones of aggregate potential within a 6-km-wide corridor in Newfoundland. Newfoundland Department of Mines and Energy, Mineral Development Division, Map 82-117, Open File NFLD/1300.

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Ricketts, M.J.

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Recommended citation

Ricketts, M.J.

2014: Granular-aggregate resources of the Port Blandford Map Area (NTS 2D/08). Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, Map 2014-03, Open File 002D/08/0806.

Note

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INDEX MAP

GRAIN-SIZE ANALYSES

Grain-size results from the 63, 32, 16 and 8 mm mesh sieves were obtained at the sample site location by sieving approximately 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 (Kirby *et al.*, 1983) depending on silt-clay content and consolidation of particles.

Table 1: 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 sieves) and gravel (Grv), sand and silt-clay (SL-CL) content of sample material collected in NTS map area 2D/08.

	⊢Metres→			⊢Percent retained through sieve opening (millimetres)→												⊢Percent→		
Sample	Exp	Dep	PN	63	32	16	8	4	2	1	0.5	0.25	0.125	0.062	-0.062	Grv	Sand	SL-CL
132904	12.0	12.0	146			0.50	14.50	8.17	10.85	8.18	12.43	14.41	15.66	9.00	2.90	0.71	40.95	57.35
132905	10.0	10.0					0.00	0.00	0.04	0.27	2.63	40.76	45.79	9.42	1.07	0.00	96.58	3.42
132906	4.0	6.0			3.17	18.69	17.55	17.55	9.91	9.90	7.84	8.33	5.28	1.36	0.51	0.09	64.41	35.41
132907	2.0	3.0	118	0.00	1.72	8.62	17.12	8.80	8.66	9.34	6.70	6.46	5.44	19.44	34.07	45.08	20.85	
132908	0.8	3.0	103	0.00	1.01	2.78	4.99	6.13	13.88	18.13	22.69	27.74	1.85	0.44	0.31	13.88	86.42	0.42
132909	1.5	3.0	121	8.10	7.71	9.13	9.35	8.35	7.80	7.35	9.10	11.05	10.98	7.38	8.15	38.37	51.64	9.99
132910	1.0	2.0	113	18.62	21.06	13.17	11.08	8.24	7.43	7.76	6.64	3.60	1.27	0.66	0.29	70.10	29.45	0.45
132911	3.0	3.0	126	4.41	10.27	2.12	4.25	4.25	5.31	8.46	9.66	12.22	17.94	11.87	15.14	24.06	57.80	18.10
132912	1.0	3.0	117	27.98	3.87	4.17	4.73	2.71	3.05	3.98	5.76	11.54	14.76	8.39	9.10	42.79	46.01	11.20
132913	2.0	2.0	122	8.30	16.07	10.24	10.01	4.77	4.80	6.81	6.79	7.25	6.64	5.33	10.90	49.19	39.88	10.93
132914	1.2	4.0	129	11.46	4.24	4.77	4.00	0.79	3.02	3.27	4.40	5.78	6.67	10.41	41.20	25.05	31.14	43.81
132915	3.0	3.0	131	12.66	1.22	6.07	3.65	7.07	7.29	7.74	7.86	8.14	9.36	8.46	18.27	32.18	49.42	18.39
132916	1.0	3.0	121	5.16	11.79	14.22	13.55	11.58	18.32	17.69	5.71	0.98	0.36	0.29	0.40	53.34	46.18	0.47
132917	1.0	5.0	124	17.07	30.51	16.70	11.24	6.22	6.87	7.04	3.52	0.45	0.12	0.12	0.13	80.18	19.65	0.16
132918	1.0	3.5	132	13.51	18.54	11.70	13.32	9.82	9.20	10.94	2.18	0.22	0.12	0.12	0.48	62.29	37.21	0.51
132919	1.0	5.0					18.03	4.19	3.24	3.30	3.90	9.87	25.58	15.52	16.37	21.17	58.58	20.25
132920	0.8	4.0	128	19.67	7.94	9.61	12.22	5.87	7.59	6.54	7.75	6.45	4.39	4.14	9.82	51.85	37.29	10.86
132921	1.0	1.0	118	0.00	0.74	3.78	11.84	5.57	10.41	14.26	28.23	22.46	2.40	0.24	0.06	20.54	79.34	0.12
132922	1.4	3.5	122	0.00	3.31	6.29	7.45	13.98	15.81	17.48	17.05	8.30	2.72	1.46	1.91	30.54	67.20	2.26
132923	0.8	4.0	118	15.57	4.55	11.22	12.98	9.61	7.27	6.16	7.10	8.53	9.81	0.02	6.98	53.68	41.33	4.99
132924	1.5	4.0	132	30.81	5.46	5.27	5.14	1.75	4.93	4.95	10.87	0.01	7.85	8.02	15.81	46.62	34.17	17.82
132925	1.0	2.0					0.00	0.82	3.19	16.43	53.42	23.33	2.14	0.48	0.18	0.62	99.08	0.30
132926	0.8						0.00	23.66	7.68	7.41	11.84	19.72	12.55	5.19	11.92	17.76	69.02	13.22
132931	1.0	6.0					0.00	0.00	0.02	0.01	0.54	27.02	44.99	27.37	0.00	61.39	38.61	
132932	1.2	6.0					0.00	10.32	14.52	19.53	27.00	17.72	7.61	2.01	1.29	7.74	90.47	1.79
132933	1.2	6.0					0.00	27.42	17.60	18.01	19.54	13.22	2.81	0.87	1.14	20.57	76.64	1.38
132934	1.5	3.0	113	22.05	9.67	8.55	10.02	7.09	6.54	6.54	7.19	7.47	5.46	3.11	6.30	55.61	37.33	7.08
132935	1.5	3.0	126	0.02	2.27	4.94	6.42	8.43	20.64	29.49	24.94	6.68	0.62	0.48	0.02	11.07	89.24	0.29
132936	1.5	8.0	100	0.00	5.98	4.78	3.64	2.57	4.63	9.17	22.56	31.20	11.19	3.44	0.88	16.32	81.94	1.74
132937	1.0	2.0	225	9.35	14.18	17.61	18.95	11.67	12.63	8.94	4.19	1.51	0.34	0.15	0.10	69.15	30.75	0.10
132938	1.0	2.0	157	6.87	16.09	17.76	15.02	10.98	10.48	10.38	8.07	2.72	1.01	0.40	0.22	63.97	35.71	0.32
132939	2.0	2.0	117	0.00	11.34	17.83	13.79	11.60	9.57	15.83	14.38	4.34	0.92	0.29	0.10	51.66	48.17	0.18
132940	1.5	2.0	167	0.00	1.75	18.89	22.29	10.39	12.49	9.19	11.28	9.07	4.53	1.60	0.38	48.68	50.53	0.79
132941	2.0	3.0					0.00	8.90	12.52	29.53	25.40	16.81	5.80	0.85	0.19	8.67	92.92	0.40
132942	2.0	3.0					0.00	2.36	1.97	4.51	20.37	52.70	7.87	1.47	0.30	1.79	97.54	0.67
132943	3.0	1.0					0.00	2.75	1.74	2.23	8.38	26.72	9.71	20.22	28.23	2.07	64.88	33.20
132944	2.0	2.0	122	0.00	2.65	8.15	14.42	24.08	17.84	14.75	4.55	1.20	0.36	0.20	0.06	44.88	55.01	0.11
132945	2.0	3.0	117	0.00	13.81	23.17	17.75	8.10	5.27	5.90	4.10	8.31	8.34	3.81	1.44	60.80	36.81	2.39
132946	1.7	4.0	118	0.00	2.96	3.33	4.25	5.35	8.84	18.13	22.82	17.60	8.39	3.65	0.10	14.76	84.98	0.27
132947	1.2	3.0	148	5.04	4.50	5.49	11.24	5.75	6.40	6.40	8.12	8.74	8.12	7.33	22.88	30.57	44.72	24.71
132948	1.5	3.0					0.00	0.47	0.08	1.13	20.25	62.12	13.42	2.02	0.29	0.50	98.70	0.80
132949	3.0	3.0	113	12.89	20.61	11.27	9.49	8.39	8.84	6.41	12.91	7.68	0.28	0.06	0.06	60.35	39.50	0.15
132950	1.0	1.0	126	0.00	0.00	3.18	9.84	10.04	11.16	15.55	11.00	17.74	0.86	0.26	0.28	20.66	79.01	0.34
132951	3.0	4.0	168	21.42	1.16	3.70	6.17	4.08	5.23	6.62	7.21	10.11	8.88	6.67	20.56	45.38	19.07	
132952	3.0	4.0	102	0.00	0.00	1.15	12.76	19.45	18.65	19.10	8.64	11.20	6.17	2.35	0.52	50.56	70.39	1.11
132953	4.0	6.0					2.01	2.21	1.33	2.47	48.27	41.27	2.47	0.71	1.26	1.68	97.38	0.68
132954	5.0	2.5	126	3.29	5.52	13.34	15.63	13.39	13.84	18.94	12.17	3.06	0.62	0.16	0.04	47.62	52.10	0.08
132955	2.0	2.5	176				0.00	10.02	12.62	17.69	17.11	13.74	5.36	0.45	0.06	52.43	47.51	0.07
132956	5.0	5.0	102	5.52	20.13	16.55	12.56	8.02	7.36	8.84	13.73	6.28	0.74	0.18	0.08	60.77	39.10	0.13
132957	5.0	2.0	131	0.00	16.65	15.57	11.15	5.86	7.35	10.77	20.40	10.35	1.21	0.27	0.38	47.56	52.06	0.38
132958	1.0	2.0	191				0.00	0.00	0.22	0.27	1.38	20.71	41.34	22.75	13.33	0.00	80.98	19.02
132959	7.0	7.0	114	0.00	3.22	16.42	14.70	14.42	12.20	13.57	18.22	8.10	0.88	0.21	0.07	45.15	54.73	0.12
132960	1.3	3.0	113	0.00	5.97	5.76	9.86	16.53	20.71	16.97	13.97	7.61	0.61	0.15	0.02	33.98	66.00	0.13
132961	1.3		110	11.57	4.83	4.63	3.70	3.63	5.13	6.44	18.01	0.01	9.93	8.94	23.39	27.26	47.12	25.62
132962	2.0	5.0		0.00	8.35	10.04	10.05	6.67	11.61	22.66	25.85	5.62	0.40	0.17	0.08	31.76	68.11	0.12
132963	1.0		114				18.85	12.17	11.16	9.28	8.80	8.62	7.49	7.41	16.23	27.97	53.94	18.09
132964	2.2	4.0	181	0.00	5.69	6.29	4.15	3.78	14.24	30.94	25.61	7.87	0.67	0.20	0.09	16.14	80.73	0.13
132965	2.0	4.0	138	22.72	4.82	16.68	18.91	13.69	12.56	7.55	2.31	0.60	0.11	0.04	0.01	73.39	26.59	0.02
132966	2.0	4.0	118	5.12	10.33	14.92	11.54	8.40	10.45	21.01	12.75	4.06	0.80	0.61	0.24	46.21	51.49	0.30
132967	1.2	3.0	131	8.29	10.18	20.14	13.50	10.04	11.18	12.48	8.60	4.38	0.88	0.24	0.09	59.65	40.21	0.14
132968	2.0	4.0		22.72	4.82	16.68	18.91	13.69	12.56	7.55	2.31	0.60	0.11	0.04	0.01	73.39	26.59	0.02
132969	3.0	5.0	148	20.79	11.36	11.42	9.80	7.38	4.55	5.91	5.84	5.54	5.52	4.10	6.29	58.80	33.78	7.32
132970	1.2	5.0	157	0.00	0.74	2.90	7.63	10.94	16.86	25.33	25.44	6.74	1.75	0.99	0.44	18.68	79.63	0.69
132971	3.0	3.0	175	16.49	18.20	12.66	11.06	9.15	6.67	5.32	3.65	2.86	2.28	2.20	6.67	24.71	68.42	6.87
132972	2.5	3.0	120	12.61	3.14	7.72	8.13	3.85	6.32	7.74	9.67	11.94	11.25	7.43	10.20	34.48	53.45	12.06
132973	2.0	1.0	147	0.04	11.76	19.00	15.58	10.21	20.36	16.66	5.86	1.12	0.42	0.29	0.09	38.14	61.67	0.19
132974	1.0						0.00	13.88	15.64	23.42	21.41	10.26	6.16	4.74	4.49	10.41	83.91	5.68
132975	2.0	2.0	113	5.71	19.59	17.56	13.53	6.06	9.70	10.96	4.46	4.30	3.84	2.77	4.46	40.86	38.40	3.66
132976	1.0	5.0	123	11.54	8.86	13.70	9.62	0.53	1.07	1.89	3.38	3.77	6.30	5.50	33.85	44.12	20.85	25.23
132977	2.0	3.0	131	0.00	10.09	5.11	6.40	5.97	5.17	5.12	5.70	7.79	9.33	10.47	28.85	26.08	42.45	31.47
132978	1.0	1.5	146	0.00	14.16	6.70	12.58	4.90	6.12	6.74	8.12	9.66	8.84	8.65	13.33	39.12	45.83	15.05
132979	1.5	3.0	120	17.21	25.97	17.15	13.13	8.01	7.49	6.21	3.41	0.72	0.25	0.22	0.24	79.46	20.25	0.29
132980	1.5	1.5	129	27.68	19.07	16.74	14.23	7.31	6.84	3.26	2.61	2.05	0.54	0.27	0.17	83.24	16.52	0.24
132981	1.5	1.5	125	10.29	15.19	16.93	12.94	9.25	10.23	12.35	8.72	2.50	0.77	0.41	0.43	62.28	37.18	0.53
132982	1.5		154	19.79	13.45	6.05	5.64	4.12	4.48	4.63	5.57	7.00	7.39	6.54	15.16	48.21	34.86	16.80
132983	1.0	2.0	143	4.32	30.95	18.04	13.84	6.32	7.65	9.45	5.16	1.70	1.24	0.58	0.78	71.88	27.20	0.92
132984	1.7	2.0					0.00	1.14	2.84	7.36	16.59	45.72	19.60	4.04	2.68	0.86	95.45	3.69
132985	1.7	2.0					0.00	0.00	0.04	0.22	14.88	55.21	24.17	5.56	0.00	88.40	11.60	
132986	1.2	2.5	134	4.29	26.42	16.27	11.63	9.10	7.43	10.84	9.72	2.64	0.54	0.34	0.42	65.43	33.67	0.90
132987	1.5	2.0	126	3.01	7.55	11.05	11.27	9.66	8.95	18.80	23.94	4.92	0.56	0.19	0.09	40.12	59.74	0.14
132988	2.0	1.0					16.07	8.36	7.72	6.85	7.15	8.15	10.54	12.61	23.54	22.58	51.47	26.10
132989	2.0	4.0	140	0.00	12.32	18.69	19.42	6.99	8.78	8.24	6.64	5.67	4.62	3.42	8.02	52.67	38.46	8.87
132990	2.7	1.0	124	17.16	12.74	9.10	13.11	7.30	10.98	13.19	8.62	3.97	1.42	0.51	0.42	71.39	27.62	0.99
132991	1.0	2.0	144	0.00	4.09	8.99	5.71	3.66	3.27	4.24	5.87	8.04	9.57	10.20	36.36	21.54	39.55	38.91
132992	3.0	4.0					7.87	10.58	12.01	18.52	20.58	15.68	3.02	1.78	1.94	15.82	81.79	2.39
132993	3.0	4.0					1.30	0.35	1.30	4.87	29.16	59.17	3.86	0.16	0.03	1.56	98.37	0.07
132994	1.2	6.0	120	7.50	19.21	9.36	7.37	8.35	14.80	23.98	7.16	1.09	0.40	0.29	0.51	49.70	49.72	0.59
132995	5.0	3.0	107	3.42	0.88	7.42	10.14	11.05	17.34	20.11	16.46	7.95	2.67	1.04	1.51	30.15	68.08	1.77
132996	3.0	10.0	124	5.85	6.08	7.60	8.31	3.07	4.28	5.50	10.47	12.77	14.71	16.16	28.34	51.83	19.83	
132997	4.0	5.0	110	4.35	13.75	9.28	9.64	5.76	7.53	7.51	8.12	10.53	9.64	5.15	8.75	41.33	49.63	10.04
132998	3.0	3.0	153	12.21	7.41	10.31	8.45	5.87	8.54	9.58	10.58	8.96	5.74	4.52	8.20	42.87	47.80	9.33
132999	2.0	3.0	235	0.00	0.85	5.74	8.24	6.12	11.17	16.19	19.38	17.11	10.53	3.81	0.86	19.42	78.77	1.81
133000	1.0	5.0					0.00	0.00	0.12	0.34	9.55	49.66	31.02	7.71	1.57	0.00	96.51	3.49
133001	4.0	4.0	183	3.03	7.16	10.97	11.49	16.36	9.49	10.84	10.15	7.94	4.41	2.72	5.64	44.62	49.76	5.62
133002	2.0	4.0					0.00	0.00	0.00	0.10	5.74	46.19	47.91	0.00	0.00	45.54	59.46	
133003	2.0	2.0	138	21.58	14.29	14.70	10.17	7.17	8.60	5.84	7.77	6.91	3.14	1.20	0.63	66.12	32.95	0.93
133004	2.0	2.0	111	7.30	4.43	6.55	11.36	8.07	11.49	15.24	12.58	9.18	5.62	3.62	2.17	37.79	59.14	3.07
133005	1.0	3.0	136	0.00	2.44	8.98	10.63	11.82	9.20	8.74	7.24	7.35	6.25	5.69	21.65	30.92	46.01	23.07
133006	1.8	3.0	117	0.00	21.60	20.56	10.36	7.17	4.70	7.03	4.60	7.41	2.86	2.26	7.46	59.90	32.58	8.02
133007	2.0	3.5	130	7.80	6.11	7.27	10.41	7.94	7.32	7.34	7.31	8.27	7.83	6.71	15.70	37.55	45.67	17.38
133008	1.5	3.0	121	9.72	8.18	8.73	10.56	8.66	9.91	10.42	8.39	5.23	2.27	1.35	4.13	49.13	46.72	9.15
133009	1.0	1.0					11.88	8.07	12.08	9.19	22.54	32.10	3.69	0.37	0.07	17.94	81.90	0.16
133010	4.0		112	0.00	0.00	2.75	5.80	9.18	14.72	27.52	33.22	5.50	0.81	0.24	0.26	15.44	84.24	0.32
133011	5.0	5.0	126	6.30	9.21	10.66	10.12	7.07	6.20	6.04	4.44	6.93	8.23	6.48	16.32	41.58	37.72	20.69
133012	1.0	3.0	110	13.44	15.87	6.35	8.54	8.64	6.61	6.06	6.47	5.99	4.94	4.93	12.14	50.66	35.94	13.38
133013	3.0	3.0					10.76	6.19	10.18	18.21	18.61	14.02	5.02	0.50	0.51	15.34	84.35	0.26
133014	1.0	5.0	153	15.96	14.72	11.71	14.17	6.60	7.36	7.19	7.31	6.76	2.87	2.54	3.61	61.21	34.68	4.12
771401							0.00	34.30	15.70	11.60	10.60	14.40	16.90	5.00	2.00	75.70	24.20	

GRAIN-SIZE ANALYSES

	⊢Metres→			⊢Percent retained through sieve opening (millimetres)→												⊢Percent→		
Sample	Exp	Dep	PN	63	32	16	8	4	2	1	0.5	0.25	0.125	0.062	-0.062	Grv	Sand	SL-CL
771402							0.00	18.40	10.90	12.70	10.50	12.50	9.50	3.10	0.00	10.00	88.30	1.70
790859	2.0	4.0					0.00	0.00	0.50	0.70	24.90	53.20	16.00	4.00	0.00	91.70	8.30	
790860	0.8	6.0					5.00	15.70	18.80	27.40	18.40	9.40	1.70	0.70	1.90	18.80	81.10	2.10
790861	1.5	5.0					10.90	8.90	10.20	23.50	24.60	13.20	2.40	0.30	0.20	18.00	81.70	0.30
790862	0.7	3.0					1.90	1.50	4.10	12.80	43.20	28.70	5.30	1.10	1.50	3.00	95.20	3.70
790863	3.0	5.0					0.00	9.40	8.50	9.20	10.60	12.50	12.60	12.10	23.60	7.10	68.30	26.60
790864	2.0						0.00	0.00	1.10	6.10	13.50	35.30	32.30	7.90	3.80	0.00	94.20	5.80
790865	3.5						0.00	0.70	2.50	8.30	32.20	46.40	7.50	0.20	0.10	0.50	96.40	3.10
790875	2.0						8.80	19.80	16.10	10.40	6.10	5.60	13.30	8.60	8.20	23.70	65.90	10.40
790876	0.8						13.20	14.70	14.50	10.20	8.90	8.90	8.60	8.60	12.60	24.20	63.20