

Institute of Geological Sciences

IMAU borehole log form

NN 80 NW 8	8269 0877	Glassick, Ardoch	Block E ₁
Surface level	+127.98m (+419.9 ft)	Summary	Thickness (m)
Water struck at	+111.7m	Overburden	0.2m
250mm and 200mm percussion		Mineral	14.6m
August 1981		Waste	1.5m
		Bedrock	0.6m+
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LOG

Geological classification	Lithology	Thickness m	Depth m
	Soil	0.2	0.2
	'Clayey' sandy gravel	6.3	6.5
Glacial sand and gravel	Gravel: fine with coarse, subangular to rounded, sandstones, conglomerate, siltstone, grit, andesite, gabbro, psammite, schist and vein-quartz		
	Sand: medium, fine and coarse, angular to sub-rounded, quartz with rock fragments and feldspar, moderate brown (5 YR 3/4)		
	Fines: silt and clay, disseminated and in seams		
	'Clayey' pebbly sand	6.2	12.7
	Gravel: fine with some coarse, as above in shape and composition		
	Sand: fine and medium with coarse, as above in shape and composition, pale brown (5 YR 5/2)		
	Fines: silt, disseminated and in seams		
	'Very clayey' sand	2.1	14.8
	Gravel: fine, mainly subangular, as above in composition		
	Sand: fine with rare medium and coarse, sub-rounded to rounded, quartz, pale brown (5 YR 5/2)		
	Fines: silt and clay, in laminated seams and disseminated		
Till	Clay, sandy, gravelly, light brown	1.5	16.3
Lower Devonian (Dunblane Formation)	Sandstone, medium to coarse grained, feldspathic, containing siltstone pebbles, finely bedded	0.6+	16.9

IGS IMAU borehole log form grading and composition

GRADING

Mean for deposit percentages			Depth below surface (m)		percentages / mm range								
Fines	Sand	Gravel			Fines				Sand			Gravel	
					from	to	-1/16	+1/16-1/4	+1/4-1	+1-4	+4-16	+16-64	+64
a	10	66	24	0.2	1.3	7	8	17	24	31	13	0	
				1.3	2.3	11	12	31	30	12	4	0	
				2.3	3.2	13	14	25	23	19	6	0	
				3.2	4.4	14	51	30	4	1	0	0	
				4.4	5.5	9	24	25	11	15	16	0	
				5.5	6.5	6	21	31	17	16	9	0	
				Mean		10	22	26	18	16	8	0	
b	11	77	12	6.5	7.5	9	29	31	17	12	2	0	
				7.5	8.5	9	36	29	14	10	2	0	
				8.5	9.5	10	36	29	14	11	0	0	
				9.5	10.7	9	31	30	12	14	4	0	
				10.7	11.7	11	55	31	2	1	0	0	
				11.7	12.7	18	32	22	14	13	1	0	
				Mean		11	36	29	12	10	2	0	
c	27	71	2	12.7	13.7	25	58	10	4	3	0	0	
				13.7	14.8	29	68	3	0	0	0	0	
				Mean		27	63	6	2	2	0	0	
a+b	10	72	18	Mean		10	29	28	15	13	5	0	
at 0c	13	71	16	Mean		13	34	24	13	12	4	0	

COMPOSITION

[illegible]