

GRAIN SIZE ANALYSIS -
AVERAGE GRAIN SIZE
BY MOMENT METHOD

PROFILE LINE, DATE: T-87, 7/24/91

SAMPLE ELEVATION: +8

SCREEN OPENING		PHI	WT RETAINED	WEIGHT	CUMM	WEIGHTED		PHI 16	PHI 84
mm	phi	MID POINT "D"	GRAMS "W"	%	WEIGHT %COARSER	MOMENT D*W	%FINER	interpolated	interpolated
4.000	-2.00	-2.00	2.85	4.80	4.80	-5.70	95.20	0.00	0.00
2.828	-1.50	-1.75	1.68	2.83	7.63	-2.94	92.37	0.00	0.00
2.000	-1.00	-1.25	2.15	3.62	11.25	-2.69	88.75	0.00	0.00
1.414	-0.50	-0.75	2.52	4.24	15.49	-1.89	84.51	0.00	0.00
1.000	0.00	-0.25	5.38	9.06	24.55	-1.35	75.45	-0.47	0.00
0.707	0.50	0.25	8.71	14.67	39.22	2.18	60.78	0.00	0.00
0.500	1.00	0.75	7.46	12.56	51.79	5.60	48.21	0.00	0.00
0.354	1.50	1.25	10.09	16.99	68.78	12.61	31.22	0.00	0.00
0.250	2.00	1.75	6.55	11.03	79.81	11.46	20.19	0.00	0.00
0.177	2.50	2.25	5.45	9.18	88.99	12.26	11.01	0.00	2.23
0.125	3.00	2.75	3.50	5.89	94.88	9.63	5.12	0.00	0.00
0.088	3.50	3.25	2.23	3.76	98.64	7.25	1.36	0.00	0.00
0.063	4.00	3.75	0.49	0.83	99.46	1.84	0.54	0.00	0.00
PAN		12.00	0.32	0.54	100.00	3.84	0.00	0.00	0.00
SUMS =			59.38	100		52.0975		-0.47	2.23
			AVERAGE PHI =	0.877		0.87816			
			AVERAGE mm =	0.544		0.544			

GRAIN SIZE ANALYSIS -
AVERAGE GRAIN SIZE
BY MOMENT METHOD

PROFILE LINE, DATE: T-87, 7/24/91

SAMPLE ELEVATION: +4

SCREEN OPENING		PHI	WT RETAINED	WEIGHT	CUMM	WEIGHTED		PHI 16	PHI 84
mm	phi	MID POINT "D"	GRAMS "W"	%	WEIGHT %COARSER	MOMENT D*W	%FINER	interpolated	interpolated
4.000	-2.00	-5.00	0.00	0.00	0.00	0.00	100.00		
2.828	-1.50	-1.75	0.09	0.12	0.12	-0.16	99.88		0.00
2.000	-1.00	-1.25	0.12	0.16	0.29	-0.15	99.71	0.00	0.00
1.414	-0.50	-0.75	0.33	0.45	0.74	-0.25	99.26	0.00	0.00
1.000	0.00	-0.25	3.20	4.38	5.12	-0.80	94.88	0.00	0.00
0.707	0.50	0.25	13.25	18.14	23.26	3.31	76.74	0.30	0.00
0.500	1.00	0.75	17.24	23.60	46.86	12.93	53.14	0.00	0.00
0.354	1.50	1.25	24.72	33.84	80.70	30.90	19.30	0.00	0.00
0.250	2.00	1.75	9.47	12.96	93.66	16.57	6.34	0.00	1.63
0.177	2.50	2.25	3.81	5.22	98.88	8.57	1.12	0.00	0.00
0.125	3.00	2.75	0.62	0.85	99.73	1.71	0.27	0.00	0.00
0.088	3.50	3.25	0.11	0.15	99.88	0.36	0.12	0.00	0.00
0.063	4.00	3.75	0.03	0.04	99.92	0.11	0.08	0.00	0.00
PAN		5.00	0.06	0.08	100.00	0.30	0.00	0.00	0.00
SUMS =			73.05	100.000		73.408		0.30	1.63
			AVERAGE PHI =	1.005		0.964			
			AVERAGE mm =	0.498		0.513			

GRAIN SIZE ANALYSIS -
AVERAGE GRAIN SIZE
BY MOMENT METHOD

PROFILE LINE, DATE: T-87, 7/24/91

SAMPLE ELEVATION: 0

SCREEN OPENING		PHI	WT RETAINED	WEIGHT	CUMM	WEIGHTED		PHI 16	PHI 84
mm	phi	MID POINT "D"	GRAMS "W"	%	WEIGHT %COARSER	MOMENT D*W	%FINER	interpolated	interpolated
4.000	-2.00	-2.64	2.98	5.86	5.86	-7.87	94.14		
2.828	-1.50	-1.75	1.95	3.84	9.70	-3.41	90.30	0.00	0.00
2.000	-1.00	-1.25	3.27	6.44	16.14	-4.09	83.86	-1.01	0.00
1.414	-0.50	-0.75	4.70	9.25	25.39	-3.53	74.61	0.00	0.00
1.000	0.00	-0.25	11.31	22.26	47.65	-2.83	52.35	0.00	0.00
0.707	0.50	0.25	13.67	26.90	74.55	3.42	25.45	0.00	0.00
0.500	1.00	0.75	8.12	15.98	90.53	6.09	9.47	0.00	0.80
0.354	1.50	1.25	3.98	7.83	98.37	4.98	1.63	0.00	0.00
0.250	2.00	1.75	0.52	1.02	99.39	0.91	0.61	0.00	0.00
0.177	2.50	2.25	0.15	0.30	99.69	0.34	0.31	0.00	0.00
0.125	3.00	2.75	0.07	0.14	99.82	0.19	0.18	0.00	0.00
0.088	3.50	3.25	0.05	0.10	99.92	0.16	0.08	0.00	0.00
0.063	4.00	3.75	0.02	0.04	99.96	0.08	0.04	0.00	0.00
PAN		5.00	0.02	0.04	100.00	0.10	0.00	0.00	0.00
SUMS =			50.81	100		-5.4597		-1.01	0.80
			AVERAGE PHI =	-0.107		-0.107587			
			AVERAGE mm =	1.077		1.077			

GRAIN SIZE ANALYSIS -
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PROFILE LINE, DATE: T-87, 7/24/91

SAMPLE ELEVATION: -4

SCREEN OPENING		PHI MID POINT "D"	WT RETAINED GRAMS "W"	WEIGHT %	CUMM WEIGHT %COARSER	WEIGHTED MOMENT D*W	%FINER	PHI 16 interpolated	PHI 84 interpolated
mm	phi								
4.000	-2.00	-2.00	0.00	0.00	0.00	0.00	100.00		
2.828	-1.50	-1.75	0.00	0.00	0.00	0.00	100.00		
2.000	-1.00	-1.25	0.05	0.09	0.09	-0.06	99.91	0.00	0.00
1.414	-0.50	-0.75	0.14	0.24	0.33	-0.11	99.67	0.00	0.00
1.000	0.00	-0.25	0.35	0.60	0.93	-0.09	99.07	0.00	0.00
0.707	0.50	0.25	0.70	1.21	2.14	0.18	97.86	0.00	0.00
0.500	1.00	0.75	1.27	2.19	4.33	0.95	95.67	0.00	0.00
0.354	1.50	1.25	4.33	7.47	11.81	5.41	88.19	0.00	0.00
0.250	2.00	1.75	7.23	12.48	24.29	12.65	75.71	1.67	0.00
0.177	2.50	2.25	14.81	25.57	49.85	33.32	50.15	0.00	0.00
0.125	3.00	2.75	18.24	31.49	81.34	50.16	18.66	0.00	0.00
0.088	3.50	3.25	9.62	16.61	97.95	31.27	2.05	0.00	3.08
0.063	4.00	3.75	1.09	1.88	99.83	4.09	0.17	0.00	0.00
PAN		5.00	0.10	0.17	100.00	0.50	0.00	0.00	0.00
SUMS =			57.93	100		138.273		1.67	3.08
			AVERAGE PHI =	2.387		2.37404			
			AVERAGE mm =	0.191		0.193			

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SAMPLE ELEVATION: -8

SCREEN OPENING		PHI MID POINT "D"	WT RETAINED GRAMS "W"	WEIGHT %	CUMM WEIGHT %COARSER	WEIGHTED MOMENT D*W	%FINER	PHI 16 interpolated	PHI 84 interpolated
mm	phi								
4.000	-2.00	-4.80	0.00	0.00	0.00	0.00	100.00		
2.828	-1.50	-1.75	0.00	0.00	0.00	0.00	100.00		
2.000	-1.00	-1.25	0.01	0.02	0.02	-0.01	99.98	0.00	0.00
1.414	-0.50	-0.75	0.05	0.08	0.09	-0.04	99.91	0.00	0.00
1.000	0.00	-0.25	0.07	0.11	0.20	-0.02	99.80	0.00	0.00
0.707	0.50	0.25	0.21	0.33	0.53	0.05	99.47	0.00	0.00
0.500	1.00	0.75	0.46	0.71	1.24	0.35	98.76	0.00	0.00
0.354	1.50	1.25	2.39	3.71	4.96	2.99	95.04	0.00	0.00
0.250	2.00	1.75	6.04	9.38	14.34	10.57	85.66	0.00	0.00
0.177	2.50	2.25	16.45	25.56	39.89	37.01	60.11	2.03	0.00
0.125	3.00	2.75	21.39	33.23	73.12	58.82	26.88	0.00	0.00
0.088	3.50	3.25	13.94	21.66	94.78	45.31	5.22	0.00	3.25
0.063	4.00	3.75	2.78	4.32	99.10	10.43	0.90	0.00	0.00
PAN		8.00	0.58	0.90	100.00	4.64	0.00	0.00	0.00
SUMS =			64.37	100		170.0925		2.03	3.25
			AVERAGE PHI =	2.642		2.6418016			
			AVERAGE mm =	0.160		0.160			