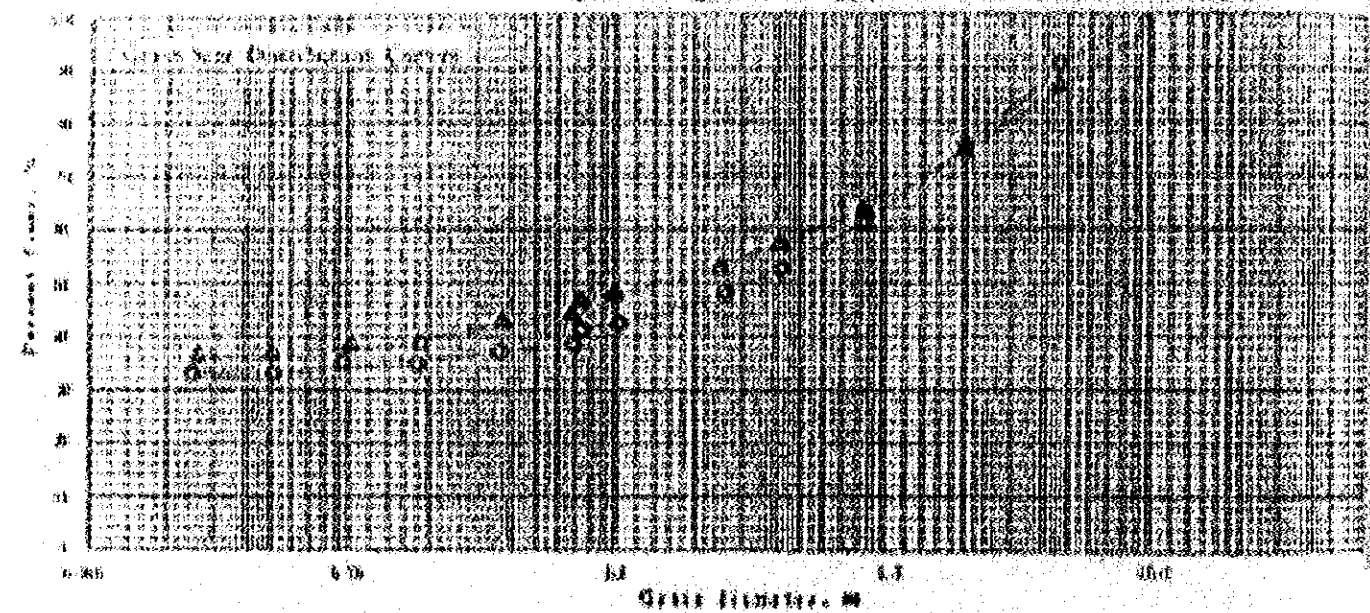


GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Development Project of the Industrial Port.

Location of Project on land River No. No. 4
 Date of Testing 3/3

Sample No.	Depth	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
1	0.00 - 0.05	100	100	100	100	100	100	100	100	100	100	100
2	0.05 - 0.10	100	100	100	100	100	100	100	100	100	100	100
3	0.10 - 0.15	100	100	100	100	100	100	100	100	100	100	100
4	0.15 - 0.20	100	100	100	100	100	100	100	100	100	100	100
5	0.20 - 0.25	100	100	100	100	100	100	100	100	100	100	100
6	0.25 - 0.30	100	100	100	100	100	100	100	100	100	100	100
7	0.30 - 0.35	100	100	100	100	100	100	100	100	100	100	100
8	0.35 - 0.40	100	100	100	100	100	100	100	100	100	100	100
9	0.40 - 0.45	100	100	100	100	100	100	100	100	100	100	100
10	0.45 - 0.50	100	100	100	100	100	100	100	100	100	100	100
11	0.50 - 0.55	100	100	100	100	100	100	100	100	100	100	100
12	0.55 - 0.60	100	100	100	100	100	100	100	100	100	100	100
13	0.60 - 0.65	100	100	100	100	100	100	100	100	100	100	100
14	0.65 - 0.70	100	100	100	100	100	100	100	100	100	100	100
15	0.70 - 0.75	100	100	100	100	100	100	100	100	100	100	100
16	0.75 - 0.80	100	100	100	100	100	100	100	100	100	100	100
17	0.80 - 0.85	100	100	100	100	100	100	100	100	100	100	100
18	0.85 - 0.90	100	100	100	100	100	100	100	100	100	100	100
19	0.90 - 0.95	100	100	100	100	100	100	100	100	100	100	100
20	0.95 - 1.00	100	100	100	100	100	100	100	100	100	100	100



Grain Size	0.075	0.15	0.3	0.6	1.2	2.5
Percentage Passing	50	50	50	50	50	100

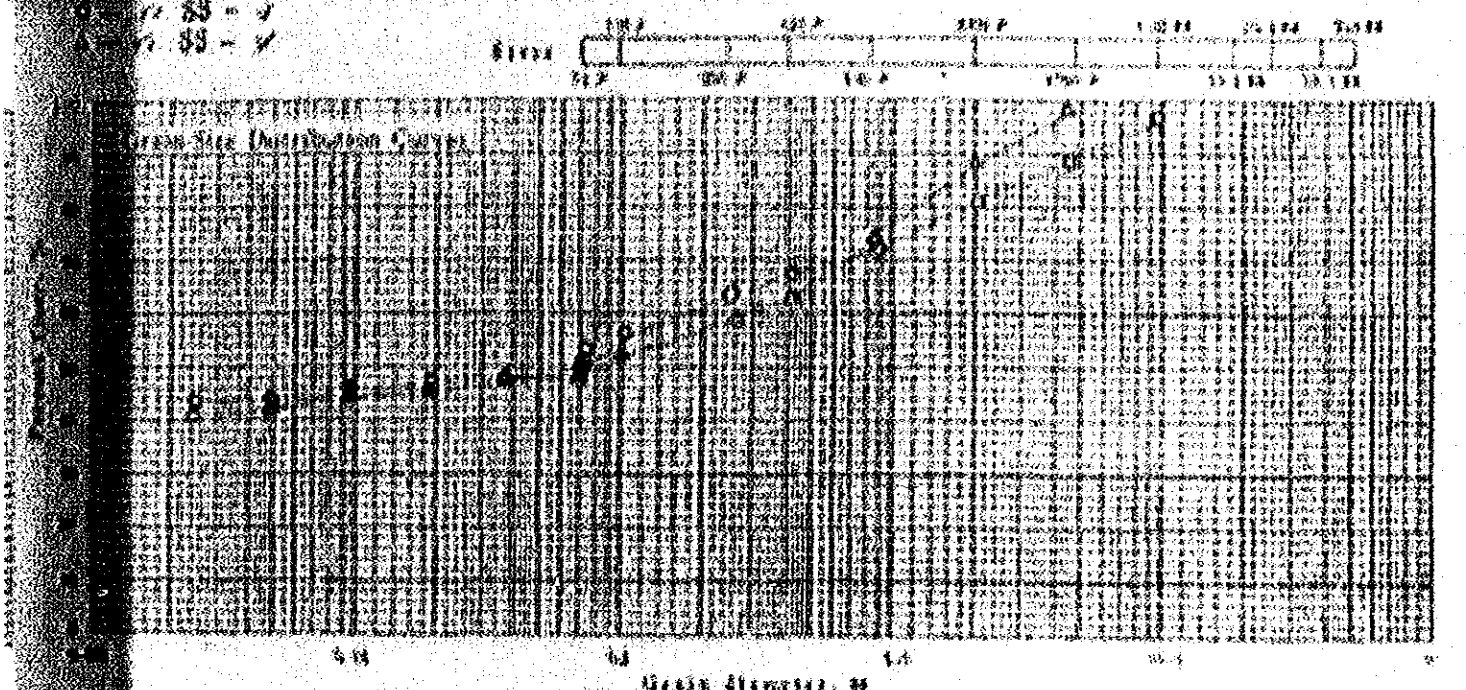
Sample No.	Depth	No.	No.	Sample No.	Depth	No.	No.
1	0.00 - 0.05	100	100	1	0.00 - 0.05	100	100
2	0.05 - 0.10	100	100	2	0.05 - 0.10	100	100
3	0.10 - 0.15	100	100	3	0.10 - 0.15	100	100
4	0.15 - 0.20	100	100	4	0.15 - 0.20	100	100
5	0.20 - 0.25	100	100	5	0.20 - 0.25	100	100
6	0.25 - 0.30	100	100	6	0.25 - 0.30	100	100
7	0.30 - 0.35	100	100	7	0.30 - 0.35	100	100
8	0.35 - 0.40	100	100	8	0.35 - 0.40	100	100
9	0.40 - 0.45	100	100	9	0.40 - 0.45	100	100
10	0.45 - 0.50	100	100	10	0.45 - 0.50	100	100
11	0.50 - 0.55	100	100	11	0.50 - 0.55	100	100
12	0.55 - 0.60	100	100	12	0.55 - 0.60	100	100
13	0.60 - 0.65	100	100	13	0.60 - 0.65	100	100
14	0.65 - 0.70	100	100	14	0.65 - 0.70	100	100
15	0.70 - 0.75	100	100	15	0.70 - 0.75	100	100
16	0.75 - 0.80	100	100	16	0.75 - 0.80	100	100
17	0.80 - 0.85	100	100	17	0.80 - 0.85	100	100
18	0.85 - 0.90	100	100	18	0.85 - 0.90	100	100
19	0.90 - 0.95	100	100	19	0.90 - 0.95	100	100
20	0.95 - 1.00	100	100	20	0.95 - 1.00	100	100

GRAIN SIZE DISTRIBUTION The Natural Conduco Survey on the Industrial Port Development Project of the Industrial Port,

Location of Project on land Boring No. No 4

Date of Testing Date of Testing

Sample No. 01918 : No. 35 - 1												
Grain Size	100	75	60	45	30	15	7.5	4.75	2.5	1.18	0.6	0.25
Weight %	100	98.1	96.1	93.1	88.7	81.6	700	541	317	185	91.5	99.1
Grain Size	100	75	60	45	30	15	7.5	4.75	2.5	1.18	0.6	0.25
Weight %	100	98.1	96.1	93.1	88.7	81.6	700	541	317	185	91.5	99.1



Grain Size	100	75	60	45	30	15	7.5	4.75	2.5	1.18	0.6	0.25
Weight %	100	98.1	96.1	93.1	88.7	81.6	700	541	317	185	91.5	99.1
Grain Size	100	75	60	45	30	15	7.5	4.75	2.5	1.18	0.6	0.25
Weight %	100	98.1	96.1	93.1	88.7	81.6	700	541	317	185	91.5	99.1

●●●●●

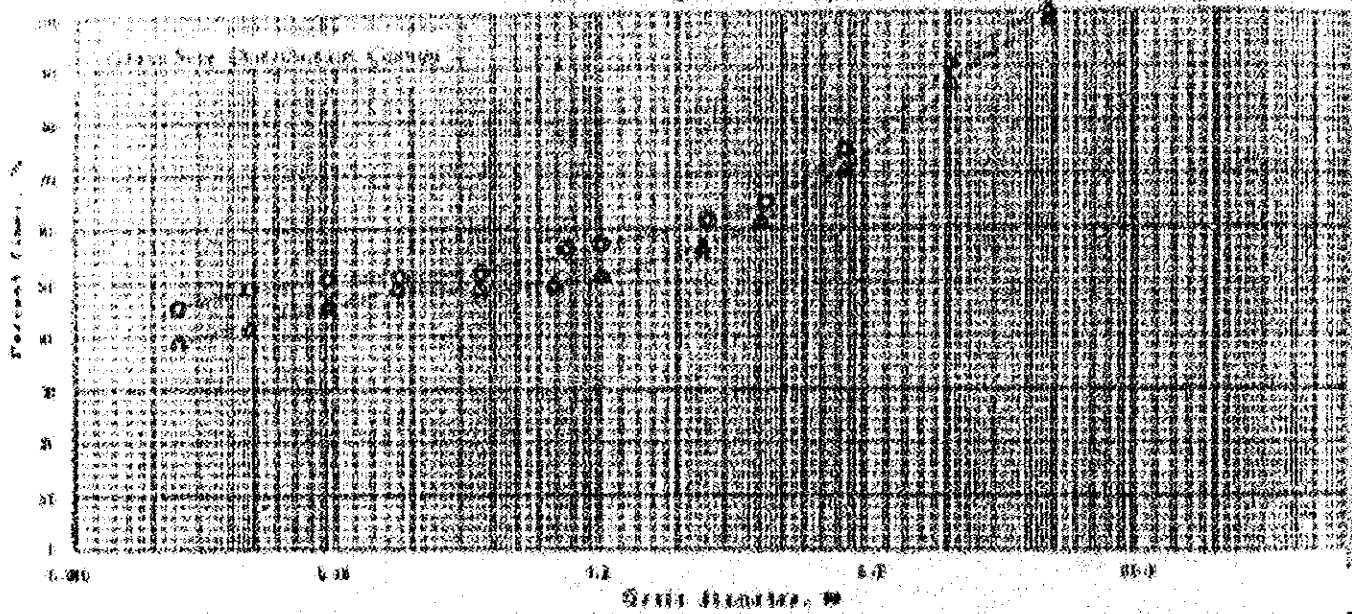
Letter to the Editor

on land

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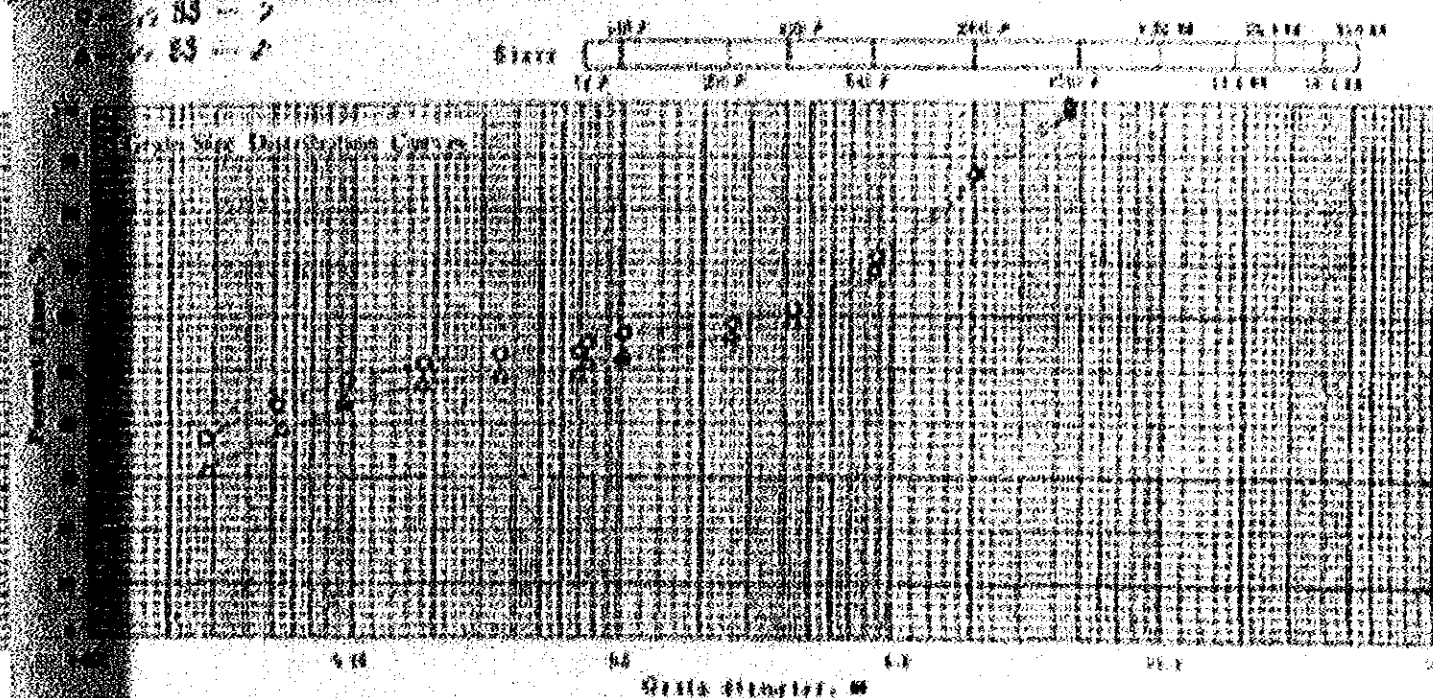
Sample No. (Depth)	No. 1	No. 2	No. 3	Sample No. (Depth)	No. 1	No. 2	No. 3
Sample 10 (Depth)				Sample 10 (Depth)			
Approx. diam. 120mm	✓	✓	✓	Max. diam.	✓	✓	✓
100 ~ 200	✓	✓	✓	Diam. at 10%	✓	✓	✓
2 ~ 0.0200	✓	✓	✓	Diam. at 10%	✓	✓	✓
0.02 ~ 0.0200	✓	✓	✓	Diam. at 10%	✓	✓	✓
0.02 ~ 0.0200	✓	✓	✓	Continued at 10%	✓	✓	✓
0.02 ~ 0.0200	✓	✓	✓	Continued at 10%	✓	✓	✓
Smaller than 0.0200	✓	✓	✓	Continued at 10%	✓	✓	✓
Smaller than 0.0200	✓	✓	✓	Continued at 10%	✓	✓	✓
0.0200 Sieve Passing	✓	✓	✓				
0.0200 Sieve Passing	✓	✓	✓				
0.0200 Sieve Passing	✓	✓	✓				
0.0200 Sieve Passing	✓	✓	✓				
0.0200 Sieve Passing	✓	✓	✓				

GRAIN SIZE DISTRIBUTION The Natural Conditions Survey on the River Development Project of the Industrial Port,

Location of Project on land Station No. **Na 4**

Tested by **B.D.** Date of Testing

Sample No.	Depth: No. 83	2	1	1	1	1	1	1	1	1	1	1	1
1	300	311	321	331	341	351	361	371	381	391	401	411	421
2	330	340	350	360	370	380	390	400	410	420	430	440	450
3	360	370	380	390	400	410	420	430	440	450	460	470	480
4	390	400	410	420	430	440	450	460	470	480	490	500	510
5	420	430	440	450	460	470	480	490	500	510	520	530	540
6	450	460	470	480	490	500	510	520	530	540	550	560	570
7	480	490	500	510	520	530	540	550	560	570	580	590	600
8	510	520	530	540	550	560	570	580	590	600	610	620	630
9	540	550	560	570	580	590	600	610	620	630	640	650	660
10	570	580	590	600	610	620	630	640	650	660	670	680	690
11	600	610	620	630	640	650	660	670	680	690	700	710	720
12	630	640	650	660	670	680	690	700	710	720	730	740	750
13	660	670	680	690	700	710	720	730	740	750	760	770	780
14	690	700	710	720	730	740	750	760	770	780	790	800	810
15	720	730	740	750	760	770	780	790	800	810	820	830	840
16	750	760	770	780	790	800	810	820	830	840	850	860	870
17	780	790	800	810	820	830	840	850	860	870	880	890	900
18	810	820	830	840	850	860	870	880	890	900	910	920	930
19	840	850	860	870	880	890	900	910	920	930	940	950	960
20	870	880	890	900	910	920	930	940	950	960	970	980	990

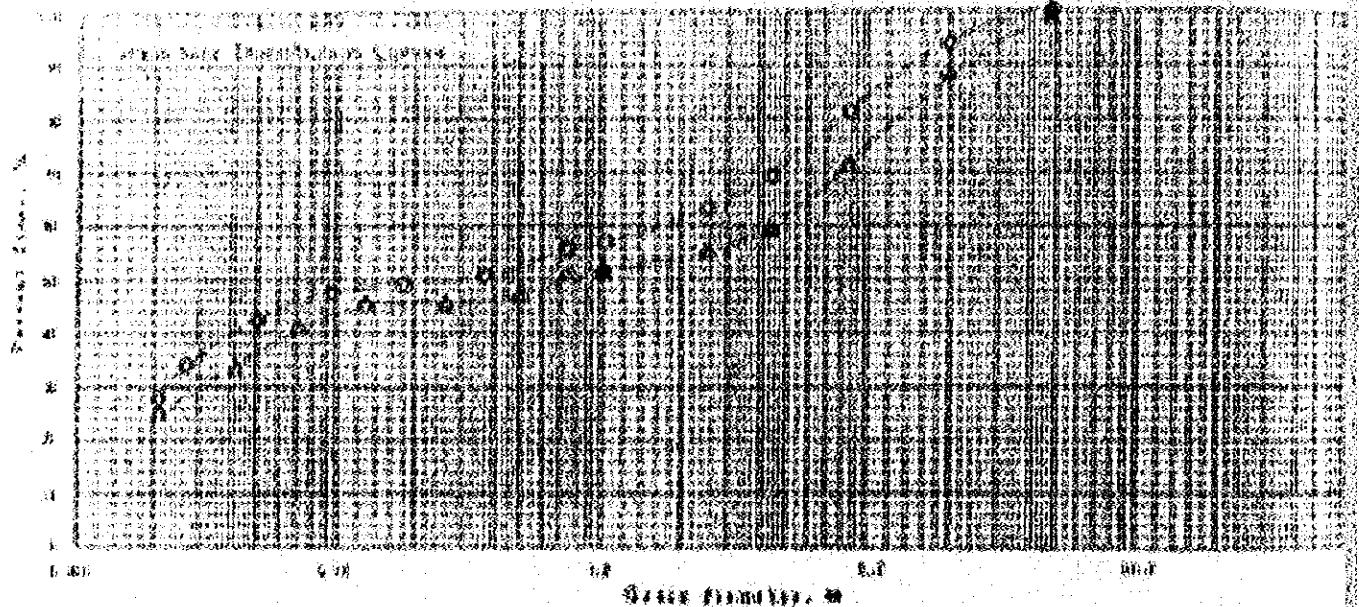


Sample No.	Depth	No. 83	No. 83	No. 83	No. 83
1	1700	100	100	100	100
2	1700	100	100	100	100
3	1700	100	100	100	100
4	1700	100	100	100	100
5	1700	100	100	100	100
6	1700	100	100	100	100
7	1700	100	100	100	100
8	1700	100	100	100	100
9	1700	100	100	100	100
10	1700	100	100	100	100
11	1700	100	100	100	100
12	1700	100	100	100	100
13	1700	100	100	100	100
14	1700	100	100	100	100
15	1700	100	100	100	100
16	1700	100	100	100	100
17	1700	100	100	100	100
18	1700	100	100	100	100
19	1700	100	100	100	100
20	1700	100	100	100	100

GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Port Development Project of the Industrial Port.

Location of Project on land No. 4
Project No. 30 Date of Survey

Sample No.	Grain Size	SS - 2	SS - 4	SS - 10	SS - 20	SS - 40	SS - 60	SS - 80	SS - 100	SS - 200	SS - 400	SS - 600	SS - 800	SS - 1000
1	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
2	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
3	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
4	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
5	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
6	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
7	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
8	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
9	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
10	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00



Sample No.	Grain Size	SS - 2	SS - 4	SS - 10	SS - 20	SS - 40	SS - 60	SS - 80	SS - 100	SS - 200	SS - 400	SS - 600	SS - 800	SS - 1000
1	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
2	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
3	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
4	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
5	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
6	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
7	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
8	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
9	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00
10	Grain Size	1.0	0.85	0.75	0.65	0.55	0.45	0.35	0.25	0.15	0.05	0.01	0.00	0.00

GRAIN SIZE DISTRIBUTION The Naval Conditions Survey on the Development Project of the Industrial Port.

Location of Project: on land Station No. Na 4

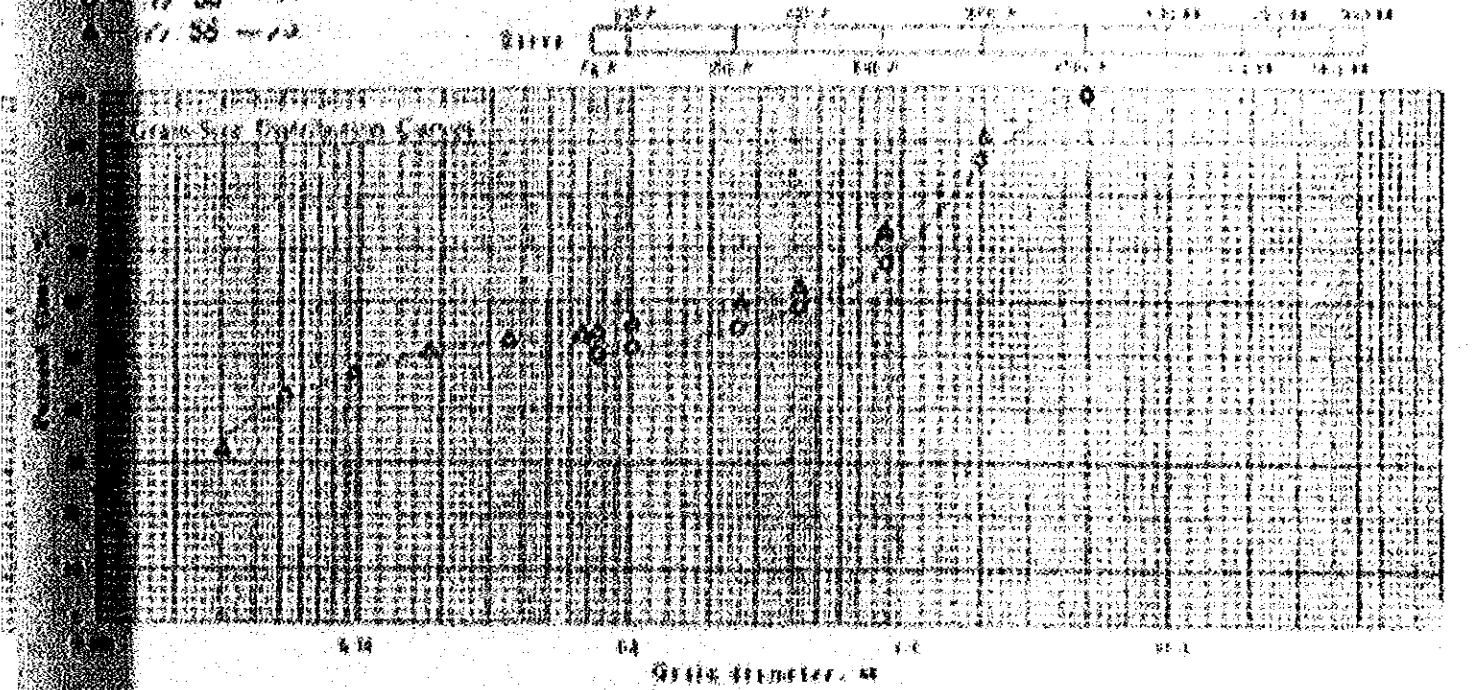
Project No. H D Date of Testing

Sample No. Depth: No. 89 cm 11

Grain Size	4.75	7.5	15	30	60	106	200	425	850	1060	2000	4250	7500	15000	30000	60000	105
Weight %	12.0	14.4	12.1	11.6	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	10.0

Sample No. Depth: No. 88 cm 12

Grain Size	4.75	7.5	15	30	60	106	200	425	850	1060	2000	4250	7500	15000	30000	60000	105
Weight %	14.7	14.8	14.1	14.2	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	10.0



Grain Size	4.75	7.5	15	30	60	106	200	425	850	1060	2000	4250	7500	15000	30000	60000	105
Sample No. Depth																	
Max. perm.																	
Perm. at 10%																	
Perm. at 10%																	
Perm. at 10%																	
Coefficient of uniformity																	
Coefficient of skewness																	
100% Fine																	
75% Fine																	
50% Fine																	
25% Fine																	

THE NATURAL CONDITIONS SURVEY ON THE DEVELOPMENT PROJECT OF THE INDUSTRIAL PORT.

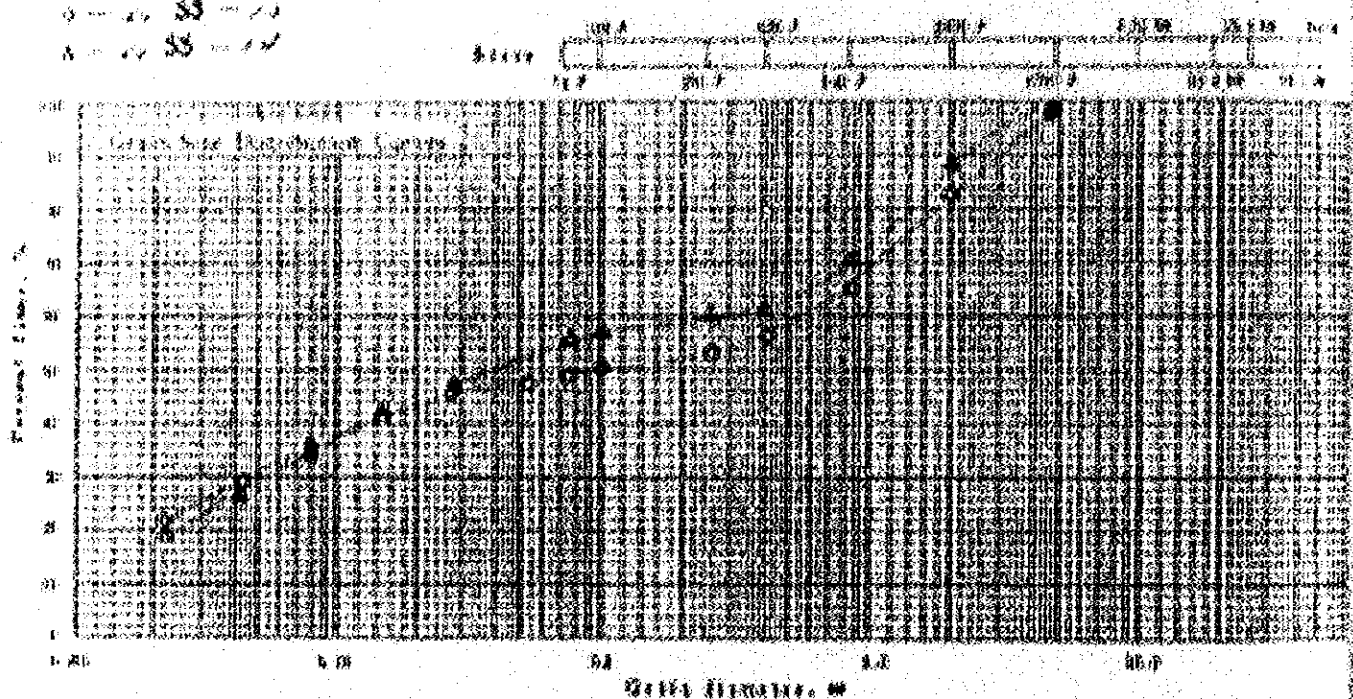
on land

Abstract

No. 4

2000

THE UNIVERSITY OF CHICAGO

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Category	Size	Unit	Size	Unit	Category
Sample No. Depth	No. 10	10	No. 10	10	Sample No. Depth
Larger than 250µ	1.0	%	2.4	%	Larger than 250µ
250 - 200µ	1.0	%	2.2	%	250 - 200µ
200 - 150µ	2.2	%	2.4	%	200 - 150µ
150 - 100µ	1.0	%	1.0	%	150 - 100µ
100 - 75µ	1.0	%	1.0	%	100 - 75µ
75 - 50µ	1.0	%	1.0	%	75 - 50µ
50 - 25µ	1.0	%	1.0	%	50 - 25µ
Smaller than 25µ	1.0	%	1.0	%	Smaller than 25µ
2000 Sieve Passing	1.0	%	1.0	%	2000 Sieve Passing
400 Sieve Passing	1.0	%	1.0	%	400 Sieve Passing
100 Sieve Passing	1.0	%	1.0	%	100 Sieve Passing
40 Sieve Passing	1.0	%	1.0	%	40 Sieve Passing
20 Sieve Passing	1.0	%	1.0	%	20 Sieve Passing
10 Sieve Passing	1.0	%	1.0	%	10 Sieve Passing
5 Sieve Passing	1.0	%	1.0	%	5 Sieve Passing
2.5 Sieve Passing	1.0	%	1.0	%	2.5 Sieve Passing
1.25 Sieve Passing	1.0	%	1.0	%	1.25 Sieve Passing
0.6 Sieve Passing	1.0	%	1.0	%	0.6 Sieve Passing
0.3 Sieve Passing	1.0	%	1.0	%	0.3 Sieve Passing
0.15 Sieve Passing	1.0	%	1.0	%	0.15 Sieve Passing
0.075 Sieve Passing	1.0	%	1.0	%	0.075 Sieve Passing
0.04 Sieve Passing	1.0	%	1.0	%	0.04 Sieve Passing
0.02 Sieve Passing	1.0	%	1.0	%	0.02 Sieve Passing
0.01 Sieve Passing	1.0	%	1.0	%	0.01 Sieve Passing
0.0075 Sieve Passing	1.0	%	1.0	%	0.0075 Sieve Passing
0.004 Sieve Passing	1.0	%	1.0	%	0.004 Sieve Passing
0.002 Sieve Passing	1.0	%	1.0	%	0.002 Sieve Passing
0.001 Sieve Passing	1.0	%	1.0	%	0.001 Sieve Passing
0.0005 Sieve Passing	1.0	%	1.0	%	0.0005 Sieve Passing
0.0002 Sieve Passing	1.0	%	1.0	%	0.0002 Sieve Passing
0.0001 Sieve Passing	1.0	%	1.0	%	0.0001 Sieve Passing
0.00005 Sieve Passing	1.0	%	1.0	%	0.00005 Sieve Passing
0.00002 Sieve Passing	1.0	%	1.0	%	0.00002 Sieve Passing
0.00001 Sieve Passing	1.0	%	1.0	%	0.00001 Sieve Passing
0.000005 Sieve Passing	1.0	%	1.0	%	0.000005 Sieve Passing
0.000002 Sieve Passing	1.0	%	1.0	%	0.000002 Sieve Passing
0.000001 Sieve Passing	1.0	%	1.0	%	0.000001 Sieve Passing
0.0000005 Sieve Passing	1.0	%	1.0	%	0.0000005 Sieve Passing
0.0000002 Sieve Passing	1.0	%	1.0	%	0.0000002 Sieve Passing
0.0000001 Sieve Passing	1.0	%	1.0	%	0.0000001 Sieve Passing
0.00000005 Sieve Passing	1.0	%	1.0	%	0.00000005 Sieve Passing
0.00000002 Sieve Passing	1.0	%	1.0	%	0.00000002 Sieve Passing
0.00000001 Sieve Passing	1.0	%	1.0	%	0.00000001 Sieve Passing
0.000000005 Sieve Passing	1.0	%	1.0	%	0.000000005 Sieve Passing
0.000000002 Sieve Passing	1.0	%	1.0	%	0.000000002 Sieve Passing
0.000000001 Sieve Passing	1.0	%	1.0	%	0.000000001 Sieve Passing
0.0000000005 Sieve Passing	1.0	%	1.0	%	0.0000000005 Sieve Passing
0.0000000002 Sieve Passing	1.0	%	1.0	%	0.0000000002 Sieve Passing
0.0000000001 Sieve Passing	1.0	%	1.0	%	0.0000000001 Sieve Passing
0.00000000005 Sieve Passing	1.0	%	1.0	%	0.00000000005 Sieve Passing
0.00000000002 Sieve Passing	1.0	%	1.0	%	0.00000000002 Sieve Passing
0.00000000001 Sieve Passing	1.0	%	1.0	%	0.00000000001 Sieve Passing
0.000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000005 Sieve Passing
0.000000000002 Sieve Passing	1.0	%	1.0	%	0.000000000002 Sieve Passing
0.000000000001 Sieve Passing	1.0	%	1.0	%	0.000000000001 Sieve Passing
0.0000000000005 Sieve Passing	1.0	%	1.0	%	0.0000000000005 Sieve Passing
0.0000000000002 Sieve Passing	1.0	%	1.0	%	0.0000000000002 Sieve Passing
0.0000000000001 Sieve Passing	1.0	%	1.0	%	0.0000000000001 Sieve Passing
0.00000000000005 Sieve Passing	1.0	%	1.0	%	0.00000000000005 Sieve Passing
0.00000000000002 Sieve Passing	1.0	%	1.0	%	0.00000000000002 Sieve Passing
0.00000000000001 Sieve Passing	1.0	%	1.0	%	0.00000000000001 Sieve Passing
0.000000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000000005 Sieve Passing
0.000000000000002 Sieve Passing	1.0	%	1.0	%	0.000000000000002 Sieve Passing
0.000000000000001 Sieve Passing	1.0	%	1.0	%	0.000000000000001 Sieve Passing
0.0000000000000005 Sieve Passing	1.0	%	1.0	%	0.0000000000000005 Sieve Passing
0.0000000000000002 Sieve Passing	1.0	%	1.0	%	0.0000000000000002 Sieve Passing
0.0000000000000001 Sieve Passing	1.0	%	1.0	%	0.0000000000000001 Sieve Passing
0.00000000000000005 Sieve Passing	1.0	%	1.0	%	0.00000000000000005 Sieve Passing
0.00000000000000002 Sieve Passing	1.0	%	1.0	%	0.00000000000000002 Sieve Passing
0.00000000000000001 Sieve Passing	1.0	%	1.0	%	0.00000000000000001 Sieve Passing
0.000000000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000000000005 Sieve Passing
0.000000000000000002 Sieve Passing	1.0	%	1.0	%	0.000000000000000002 Sieve Passing
0.000000000000000001 Sieve Passing	1.0	%	1.0	%	0.000000000000000001 Sieve Passing
0.0000000000000000005 Sieve Passing	1.0	%	1.0	%	0.0000000000000000005 Sieve Passing
0.0000000000000000002 Sieve Passing	1.0	%	1.0	%	0.0000000000000000002 Sieve Passing
0.0000000000000000001 Sieve Passing	1.0	%	1.0	%	0.0000000000000000001 Sieve Passing
0.00000000000000000005 Sieve Passing	1.0	%	1.0	%	0.00000000000000000005 Sieve Passing
0.00000000000000000002 Sieve Passing	1.0	%	1.0	%	0.00000000000000000002 Sieve Passing
0.00000000000000000001 Sieve Passing	1.0	%	1.0	%	0.00000000000000000001 Sieve Passing
0.000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000000000000005 Sieve Passing
0.000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.000000000000000000002 Sieve Passing
0.000000000000000000001 Sieve Passing	1.0	%	1.0	%	0.000000000000000000001 Sieve Passing
0.0000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.0000000000000000000005 Sieve Passing
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0.000000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000000000000000005 Sieve Passing
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0.000000000000000000000001 Sieve Passing	1.0	%	1.0	%	0.000000000000000000000001 Sieve Passing
0.0000000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.0000000000000000000000005 Sieve Passing
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0.00000000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.00000000000000000000000002 Sieve Passing
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0.000000000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000000000000000000005 Sieve Passing
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0.0000000000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.0000000000000000000000000002 Sieve Passing
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0.00000000000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.00000000000000000000000000002 Sieve Passing
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0.0000000000000000000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.0000000000000000000000000000000000002 Sieve Passing
0.0000000000000000000000000000000000001 Sieve Passing	1.0	%	1.0	%	0.0000000000000000000000000000000000001 Sieve Passing
0.00000000000000000000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.00000000000000000000000000000000000005 Sieve Passing
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0.00000000000000000000000000000000000001 Sieve Passing	1.0	%	1.0	%	0.00000000000000000000000000000000000001 Sieve Passing
0.000000000000000000000000000000000000005 Sieve Passing	1.0	%	1.0	%	0.000000000000000000000000000000000000005 Sieve Passing
0.000000000000000000000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.000000000000000000000000000000000000002 Sieve Passing
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0.0000000000000000000000000000000000000002 Sieve Passing	1.0	%	1.0	%	0.0000000000000000000000000000000000000002 Sieve Passing
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0.005 Sieve Passing	1.0	%	1.0	%	0.005 Sieve Passing
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GRAIN-SIZE DISTRIBUTION

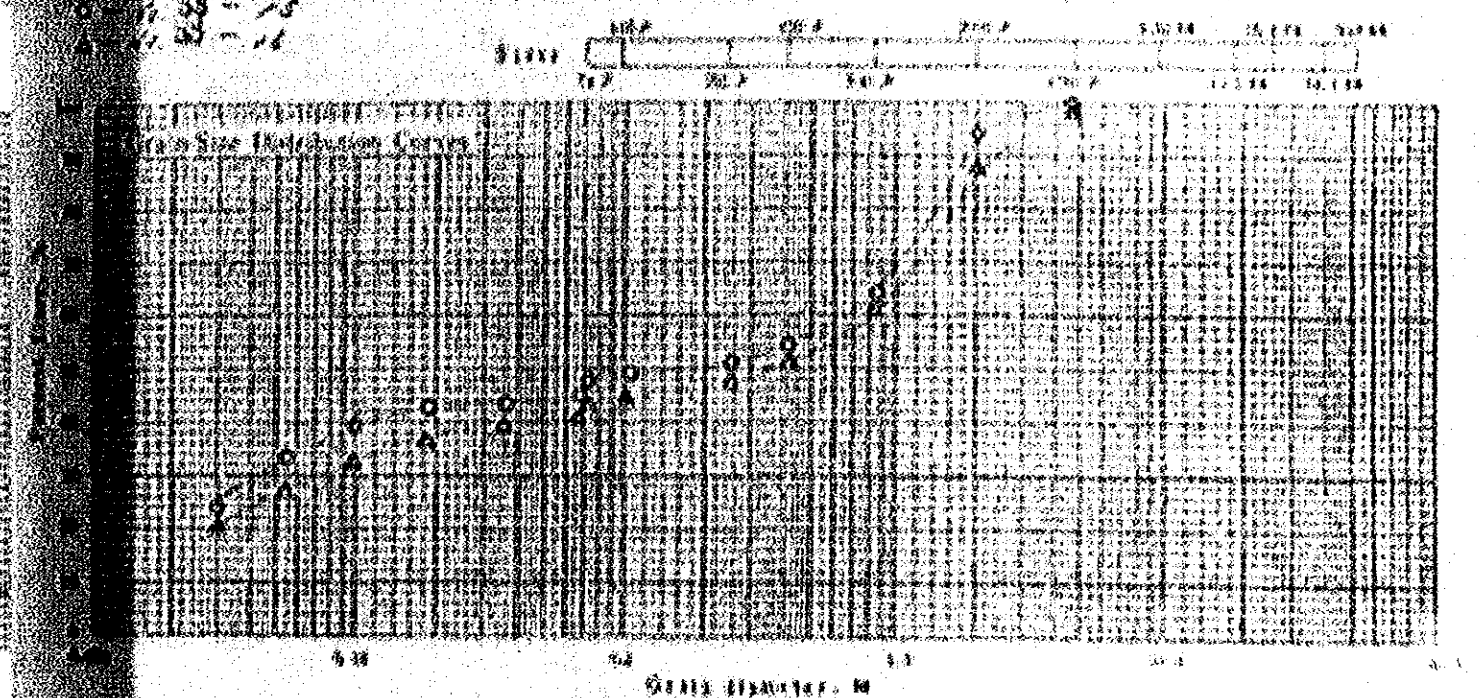
The Natural Conditions Survey on the
Port Development Project of the Industrial Port.

Location of Project on land Harter Mt.

DATE: 1/17/2018

[illegible]

Depth : 10. 55	501	502	503	504	505	506	507	508	509	510	511	512	513	514
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591	592	593	594	595	596	597	598	599	600	601	602	603	604	605
606	607	608	609	610	611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630	631	632	633	634	635
636	637	638	639	640	641	642	643	644	645	646	647	648	649	650
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726	727	728	729	730	731	732	733	734	735	736	737	738	739	740
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771	772	773	774	775	776	777	778	779	780	781	782	783	784	785
786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815
816	817	818	819	820	821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840	841	842	843	844	845
846	847	848	849	850	851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870	871	872	873	874	875
876	877	878	879	880	881	882	883	884	885	886	887	888	889	890
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906	907	908	909	910	911	912	913	914	915	916				



Case No.	Case No.	Case No.	Case No.	Case No.
1744	1745	1746	1747	1748
1749	1750	1751	1752	1753
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1759	1760	1761	1762	1763
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1769	1770	1771	1772	1773
1774	1775	1776	1777	1778
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1789	1790	1791	1792	1793
1794	1795	1796	1797	1798
1799	1800	1801	1802	1803
1804	1805	1806	1807	1808
1809	1810	1811	1812	1813
1814	1815	1816	1817	1818
1819	1820	1821	1822	1823
1824	1825	1826	1827	1828
1829	1830	1831	1832	1833
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1844	1845	1846	1847	1848
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1869	1870	1871	1872	1873
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1879	1880	1881	1882	1883
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1894	1895	1896	1897	1898
1899	1900	1901	1902	1903
1904	1905	1906	1907	1908
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1954	1955	1956	1957	1958
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1969	1970	1971	1972	1973
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1989	1990	1991	1992	1993
1994	1995	1996	1997	1998
1999	2000	2001	2002	2003

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the Project Development Project of the Industrial Port

Location of Project on land

Station No.

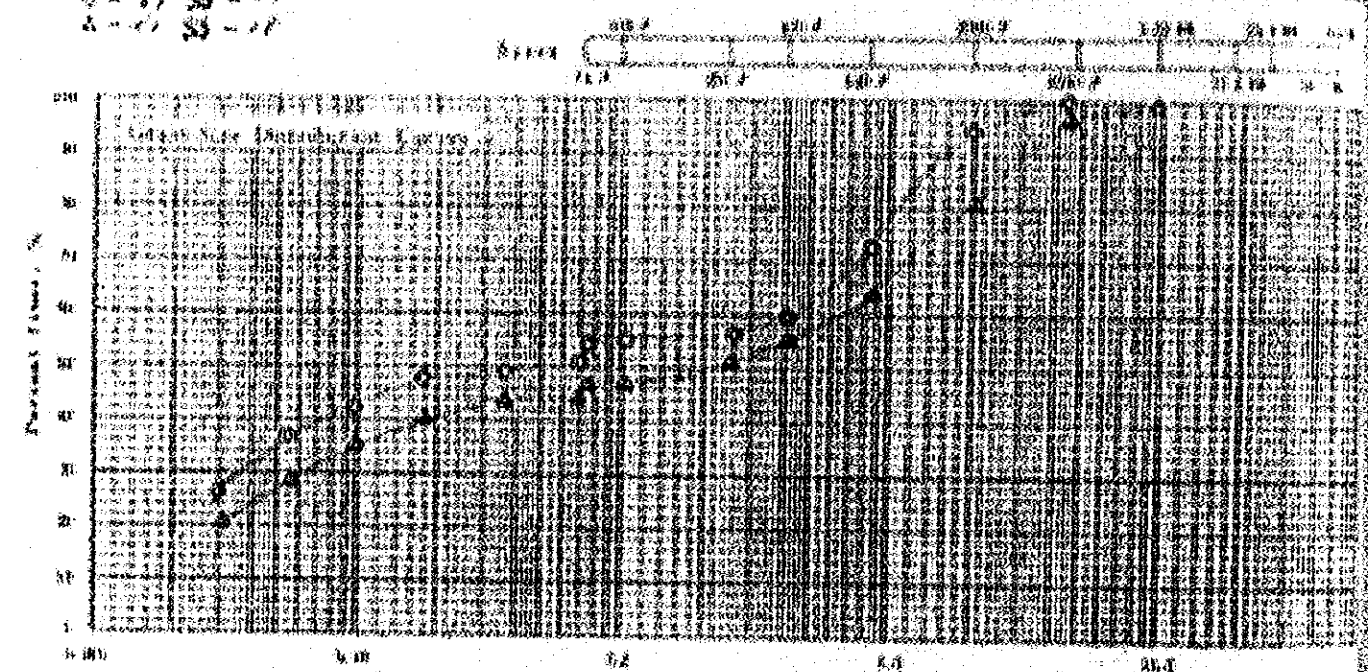
No. 4

Section No.

A. D.

Date of Filling

Sample No.	Depth	No.	SS	SP	SL	CL	CH	SH	SH	SH	SH	SH
1	0.00 ~ 0.05m	101	101	101	101	101	101	101	101	101	101	101
2	0.05 ~ 0.10m	102	102	102	102	102	102	102	102	102	102	102
3	0.10 ~ 0.15m	103	103	103	103	103	103	103	103	103	103	103
4	0.15 ~ 0.20m	104	104	104	104	104	104	104	104	104	104	104
5	0.20 ~ 0.25m	105	105	105	105	105	105	105	105	105	105	105
6	0.25 ~ 0.30m	106	106	106	106	106	106	106	106	106	106	106
7	0.30 ~ 0.35m	107	107	107	107	107	107	107	107	107	107	107
8	0.35 ~ 0.40m	108	108	108	108	108	108	108	108	108	108	108
9	0.40 ~ 0.45m	109	109	109	109	109	109	109	109	109	109	109
10	0.45 ~ 0.50m	110	110	110	110	110	110	110	110	110	110	110



Sample No.	Depth	No.	SS	SP	SL	CL	CH	SH	SH	SH	SH	SH
101	0.00 ~ 0.05m	101	101	101	101	101	101	101	101	101	101	101
102	0.05 ~ 0.10m	102	102	102	102	102	102	102	102	102	102	102
103	0.10 ~ 0.15m	103	103	103	103	103	103	103	103	103	103	103
104	0.15 ~ 0.20m	104	104	104	104	104	104	104	104	104	104	104
105	0.20 ~ 0.25m	105	105	105	105	105	105	105	105	105	105	105
106	0.25 ~ 0.30m	106	106	106	106	106	106	106	106	106	106	106
107	0.30 ~ 0.35m	107	107	107	107	107	107	107	107	107	107	107
108	0.35 ~ 0.40m	108	108	108	108	108	108	108	108	108	108	108
109	0.40 ~ 0.45m	109	109	109	109	109	109	109	109	109	109	109
110	0.45 ~ 0.50m	110	110	110	110	110	110	110	110	110	110	110

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the
Project Development Project of the Industrial Port,

on land

Location of Project

Boring No.

No 4

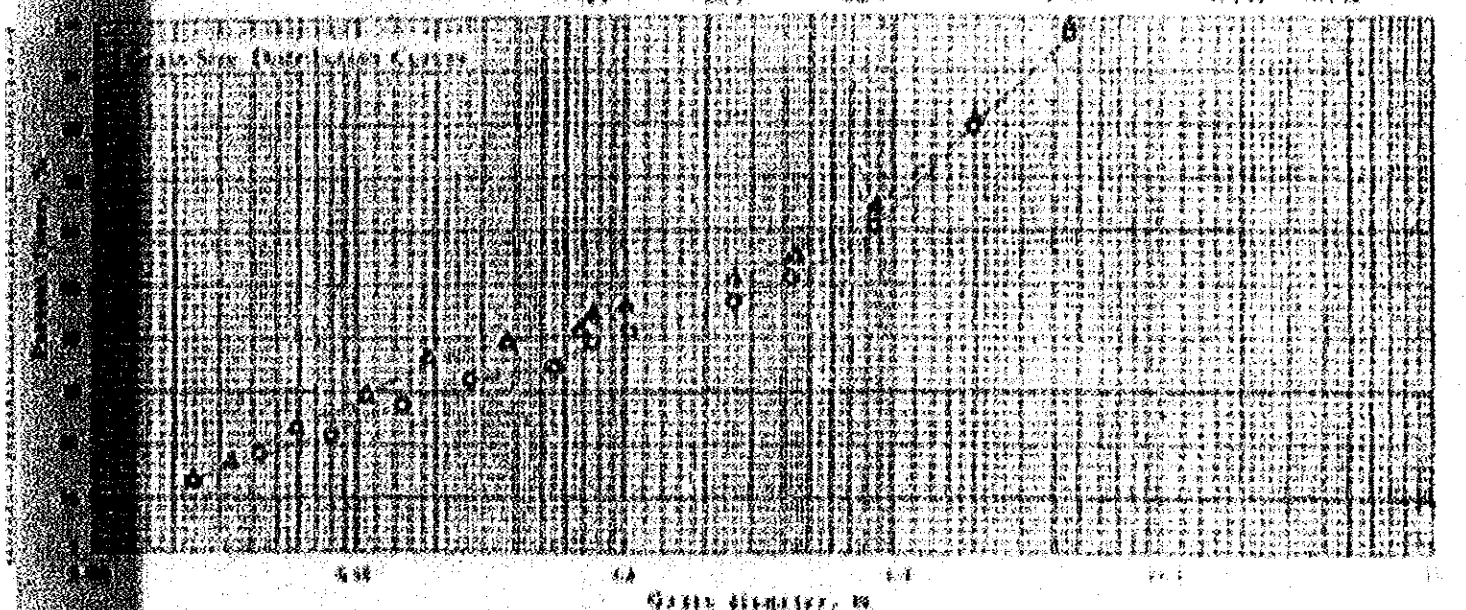
Project No.

B.D.

Date of Testing

Sample No.	Depth : No. 88 - 19	(n) Specific Gravity : 2.65									
Grain Size	500	250	125	63	31.5	15.75	7.9	3.95	1.975	0.9875	0.49375
Weight %	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Percent	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Grain Size	500	250	125	63	31.5	15.75	7.9	3.95	1.975	0.9875	0.49375
Weight %	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Percent	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3

Sample No.	Depth : No. 88 - 20	(n) Specific Gravity : 2.65									
Grain Size	500	250	125	63	31.5	15.75	7.9	3.95	1.975	0.9875	0.49375
Weight %	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Percent	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Grain Size	500	250	125	63	31.5	15.75	7.9	3.95	1.975	0.9875	0.49375
Weight %	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Percent	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3



Grain Size	500	250	125	63	31.5	15.75	7.9	3.95	1.975	0.9875	0.49375
Weight %	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Percent	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Grain Size	500	250	125	63	31.5	15.75	7.9	3.95	1.975	0.9875	0.49375
Weight %	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3
Percent	22.4	22.6	16.7	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3

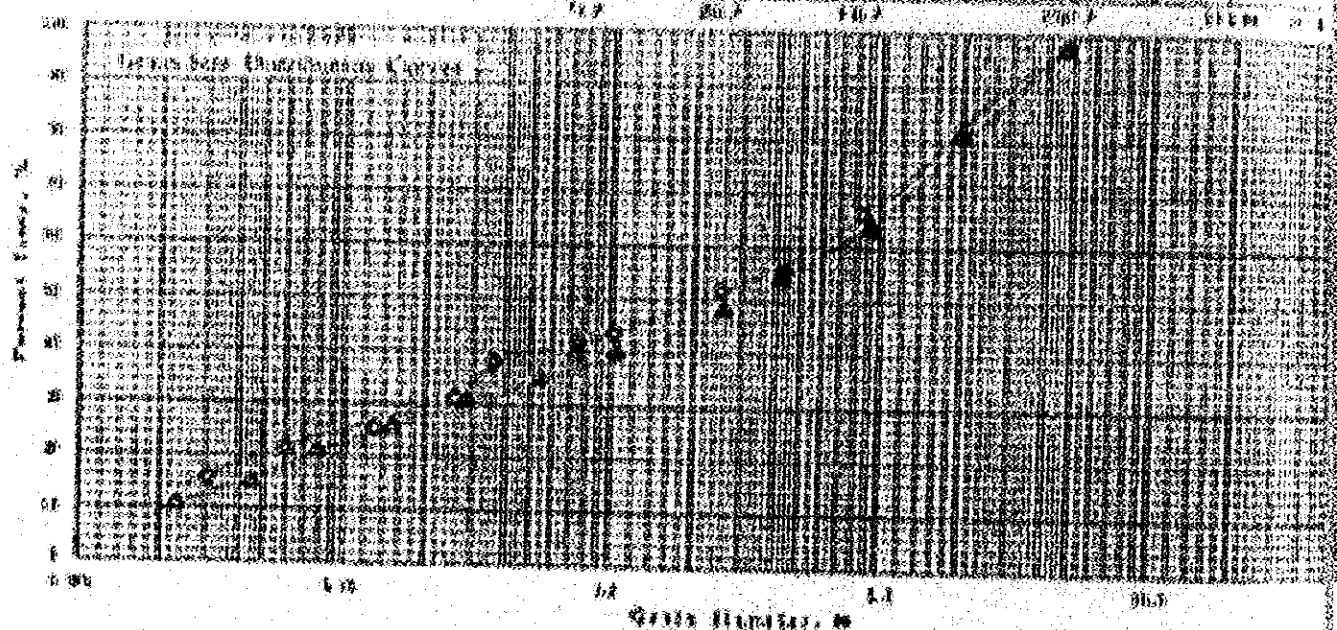
The Natural Conditions Survey on the Development Project of the Industrial Port.

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No. 9

Abstract

40

[illegible][illegible]

Sample No. 1	Sample No. 2	Sample No. 3	Sample No. 4	Sample No. 5
Large 100%	Large 100%	Large 100%	Large 100%	Large 100%
476 ~ 200	476 ~ 200	476 ~ 200	476 ~ 200	476 ~ 200
2 ~ 200	2 ~ 200	2 ~ 200	2 ~ 200	2 ~ 200
100 ~ 1000	100 ~ 1000	100 ~ 1000	100 ~ 1000	100 ~ 1000
1001 ~ 10000	1001 ~ 10000	1001 ~ 10000	1001 ~ 10000	1001 ~ 10000
Smaller than 10000	Smaller than 10000	Smaller than 10000	Smaller than 10000	Smaller than 10000
Smaller than 10000	Smaller than 10000	Smaller than 10000	Smaller than 10000	Smaller than 10000
2000 ~ 10000	2000 ~ 10000	2000 ~ 10000	2000 ~ 10000	2000 ~ 10000
1000 ~ 10000	1000 ~ 10000	1000 ~ 10000	1000 ~ 10000	1000 ~ 10000
100 ~ 10000	100 ~ 10000	100 ~ 10000	100 ~ 10000	100 ~ 10000
10 ~ 10000	10 ~ 10000	10 ~ 10000	10 ~ 10000	10 ~ 10000
1 ~ 10000	1 ~ 10000	1 ~ 10000	1 ~ 10000	1 ~ 10000

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the

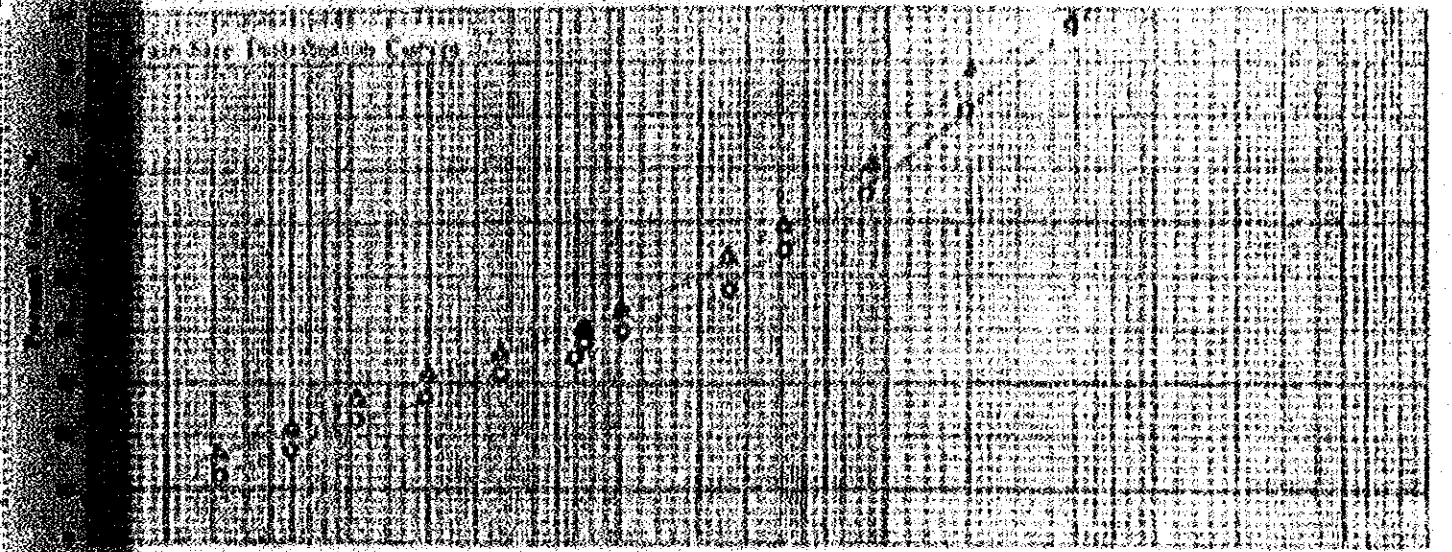
Development Project of the Industrial Port,

Location of Project on land Survey No. **No 4**

Station **B. D** Date of Testing

Depth: 1.0m SS - 20											
100	614	381	251	131	322	114	292	341	411	275	0105
200	614	381	251	131	322	114	292	341	411	275	0105
300	614	381	251	131	322	114	292	341	411	275	0105
400	614	381	251	131	322	114	292	341	411	275	0105
500	614	381	251	131	322	114	292	341	411	275	0105
600	614	381	251	131	322	114	292	341	411	275	0105
700	614	381	251	131	322	114	292	341	411	275	0105
800	614	381	251	131	322	114	292	341	411	275	0105
900	614	381	251	131	322	114	292	341	411	275	0105
1000	614	381	251	131	322	114	292	341	411	275	0105

Depth: 1.0m SS - 20											
100	614	381	251	131	322	114	292	341	411	275	0105
200	614	381	251	131	322	114	292	341	411	275	0105
300	614	381	251	131	322	114	292	341	411	275	0105
400	614	381	251	131	322	114	292	341	411	275	0105
500	614	381	251	131	322	114	292	341	411	275	0105
600	614	381	251	131	322	114	292	341	411	275	0105
700	614	381	251	131	322	114	292	341	411	275	0105
800	614	381	251	131	322	114	292	341	411	275	0105
900	614	381	251	131	322	114	292	341	411	275	0105
1000	614	381	251	131	322	114	292	341	411	275	0105



Grain Size Distribution Curve											
100	614	381	251	131	322	114	292	341	411	275	0105
200	614	381	251	131	322	114	292	341	411	275	0105
300	614	381	251	131	322	114	292	341	411	275	0105
400	614	381	251	131	322	114	292	341	411	275	0105
500	614	381	251	131	322	114	292	341	411	275	0105
600	614	381	251	131	322	114	292	341	411	275	0105
700	614	381	251	131	322	114	292	341	411	275	0105
800	614	381	251	131	322	114	292	341	411	275	0105
900	614	381	251	131	322	114	292	341	411	275	0105
1000	614	381	251	131	322	114	292	341	411	275	0105

GRAIN SIZE DISTRIBUTION

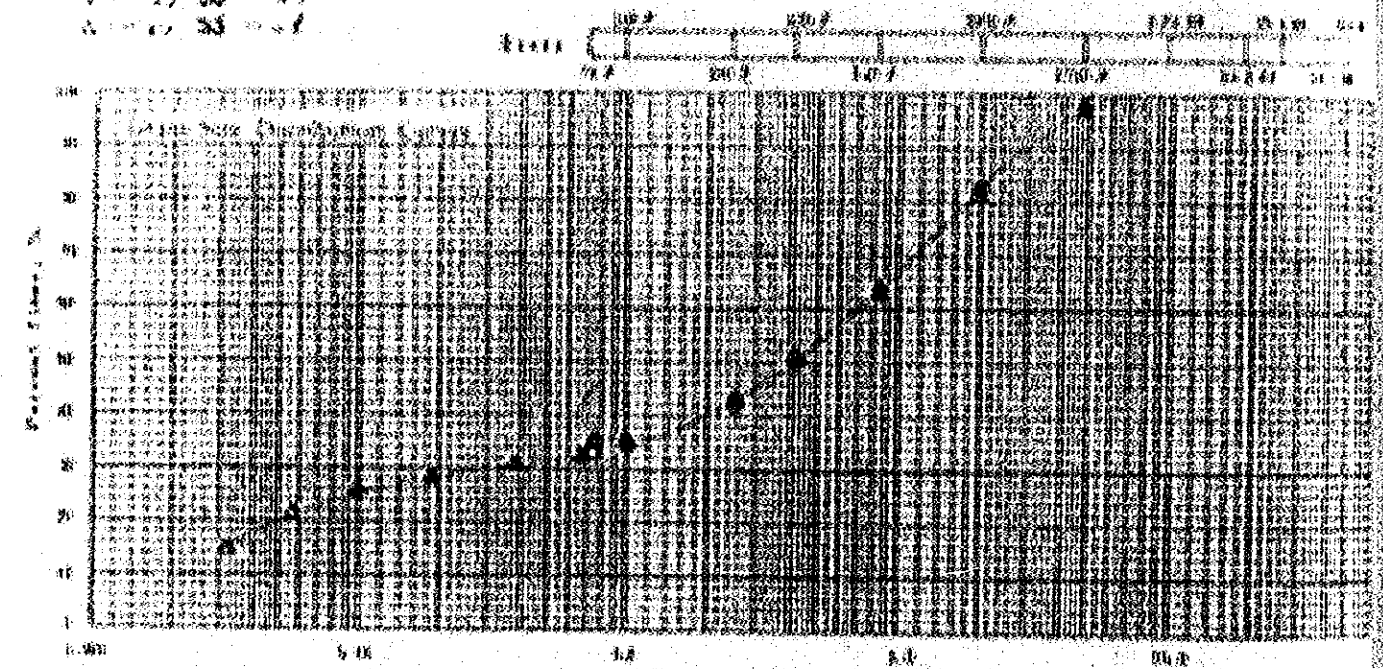
The Natural Conditions Survey on the
Federal Development Project of the Industrial Port.

LOCATION OF PROJECT on land, Station No.,

No. 4

Section No. 33, Date of Testing

Sample No. & Depth	No. 33	No. 34	No. 35	No. 36	No. 37	No. 38	No. 39	No. 40	No. 41	No. 42	No. 43	No. 44
Grain No.	100	100	100	100	100	100	100	100	100	100	100	100
% Passing												
Grain No.	100	100	100	100	100	100	100	100	100	100	100	100
% Passing												



Grain Size, mm	0.075	0.15	0.3	0.6	1.18	2.5	5.0	7.5	15	30	60	100
Grain No.	20	60	100	200	300	60	30	20	10	5	2.5	1.18
% Passing												

Sample No. & Depth	No. 33	No. 34	Sample No. & Depth	No. 35	No. 36
Larger than 4.75mm	100	100	Larger than 4.75mm	100	100
4.75 - 7.5mm	100	100	4.75 - 7.5mm	100	100
7.5 - 15mm	100	100	7.5 - 15mm	100	100
15 - 30mm	100	100	15 - 30mm	100	100
30 - 60mm	100	100	30 - 60mm	100	100
60 - 100mm	100	100	60 - 100mm	100	100
100 - 200mm	100	100	100 - 200mm	100	100
200 - 300mm	100	100	200 - 300mm	100	100
300 - 400mm	100	100	300 - 400mm	100	100
400 - 500mm	100	100	400 - 500mm	100	100
500 - 600mm	100	100	500 - 600mm	100	100
600 - 700mm	100	100	600 - 700mm	100	100
700 - 800mm	100	100	700 - 800mm	100	100
800 - 900mm	100	100	800 - 900mm	100	100
900 - 1000mm	100	100	900 - 1000mm	100	100
1000 - 1100mm	100	100	1000 - 1100mm	100	100
1100 - 1200mm	100	100	1100 - 1200mm	100	100
1200 - 1300mm	100	100	1200 - 1300mm	100	100
1300 - 1400mm	100	100	1300 - 1400mm	100	100
1400 - 1500mm	100	100	1400 - 1500mm	100	100
1500 - 1600mm	100	100	1500 - 1600mm	100	100
1600 - 1700mm	100	100	1600 - 1700mm	100	100
1700 - 1800mm	100	100	1700 - 1800mm	100	100
1800 - 1900mm	100	100	1800 - 1900mm	100	100
1900 - 2000mm	100	100	1900 - 2000mm	100	100
2000 - 2100mm	100	100	2000 - 2100mm	100	100
2100 - 2200mm	100	100	2100 - 2200mm	100	100
2200 - 2300mm	100	100	2200 - 2300mm	100	100
2300 - 2400mm	100	100	2300 - 2400mm	100	100
2400 - 2500mm	100	100	2400 - 2500mm	100	100
2500 - 2600mm	100	100	2500 - 2600mm	100	100
2600 - 2700mm	100	100	2600 - 2700mm	100	100
2700 - 2800mm	100	100	2700 - 2800mm	100	100
2800 - 2900mm	100	100	2800 - 2900mm	100	100
2900 - 3000mm	100	100	2900 - 3000mm	100	100
3000 - 3100mm	100	100	3000 - 3100mm	100	100
3100 - 3200mm	100	100	3100 - 3200mm	100	100
3200 - 3300mm	100	100	3200 - 3300mm	100	100
3300 - 3400mm	100	100	3300 - 3400mm	100	100
3400 - 3500mm	100	100	3400 - 3500mm	100	100
3500 - 3600mm	100	100	3500 - 3600mm	100	100
3600 - 3700mm	100	100	3600 - 3700mm	100	100
3700 - 3800mm	100	100	3700 - 3800mm	100	100
3800 - 3900mm	100	100	3800 - 3900mm	100	100
3900 - 4000mm	100	100	3900 - 4000mm	100	100
4000 - 4100mm	100	100	4000 - 4100mm	100	100
4100 - 4200mm	100	100	4100 - 4200mm	100	100
4200 - 4300mm	100	100	4200 - 4300mm	100	100
4300 - 4400mm	100	100	4300 - 4400mm	100	100
4400 - 4500mm	100	100	4400 - 4500mm	100	100
4500 - 4600mm	100	100	4500 - 4600mm	100	100
4600 - 4700mm	100	100	4600 - 4700mm	100	100
4700 - 4800mm	100	100	4700 - 4800mm	100	100
4800 - 4900mm	100	100	4800 - 4900mm	100	100
4900 - 5000mm	100	100	4900 - 5000mm	100	100
5000 - 5100mm	100	100	5000 - 5100mm	100	100
5100 - 5200mm	100	100	5100 - 5200mm	100	100
5200 - 5300mm	100	100	5200 - 5300mm	100	100
5300 - 5400mm	100	100	5300 - 5400mm	100	100
5400 - 5500mm	100	100	5400 - 5500mm	100	100
5500 - 5600mm	100	100	5500 - 5600mm	100	100
5600 - 5700mm	100	100	5600 - 5700mm	100	100
5700 - 5800mm	100	100	5700 - 5800mm	100	100
5800 - 5900mm	100	100	5800 - 5900mm	100	100
5900 - 6000mm	100	100	5900 - 6000mm	100	100
6000 - 6100mm	100	100	6000 - 6100mm	100	100
6100 - 6200mm	100	100	6100 - 6200mm	100	100
6200 - 6300mm	100	100	6200 - 6300mm	100	100
6300 - 6400mm	100	100	6300 - 6400mm	100	100
6400 - 6500mm	100	100	6400 - 6500mm	100	100
6500 - 6600mm	100	100	6500 - 6600mm	100	100
6600 - 6700mm	100	100	6600 - 6700mm	100	100
6700 - 6800mm	100	100	6700 - 6800mm	100	100
6800 - 6900mm	100	100	6800 - 6900mm	100	100
6900 - 7000mm	100	100	6900 - 7000mm	100	100
7000 - 7100mm	100	100	7000 - 7100mm	100	100
7100 - 7200mm	100	100	7100 - 7200mm	100	100
7200 - 7300mm	100	100	7200 - 7300mm	100	100
7300 - 7400mm	100	100	7300 - 7400mm	100	100
7400 - 7500mm	100	100	7400 - 7500mm	100	100
7500 - 7600mm	100	100	7500 - 7600mm	100	100
7600 - 7700mm	100	100	7600 - 7700mm	100	100
7700 - 7800mm	100	100	7700 - 7800mm	100	100
7800 - 7900mm	100	100	7800 - 7900mm	100	100
7900 - 8000mm	100	100	7900 - 8000mm	100	100
8000 - 8100mm	100	100	8000 - 8100mm	100	100
8100 - 8200mm	100	100	8100 - 8200mm	100	100
8200 - 8300mm	100	100	8200 - 8300mm	100	100
8300 - 8400mm	100	100	8300 - 8400mm	100	100
8400 - 8500mm	100	100	8400 - 8500mm	100	100
8500 - 8600mm	100	100	8500 - 8600mm	100	100
8600 - 8700mm	100	100	8600 - 8700mm	100	100
8700 - 8800mm	100	100	8700 - 8800mm	100	100
8800 - 8900mm	100	100	8800 - 8900mm	100	100
8900 - 9000mm	100	100	8900 - 9000mm	100	100
9000 - 9100mm	100	100	9000 - 9100mm	100	100
9100 - 9200mm	100	100	9100 - 9200mm	100	100
9200 - 9300mm	100	100	9200 - 9300mm	100	100
9300 - 9400mm	100	100	9300 - 9400mm	100	100
9400 - 9500mm	100	100	9400 - 9500mm	100	100
9500 - 9600mm	100	100	9500 - 9600mm	100	100
9600 - 9700mm	100	100	9600 - 9700mm	100	100
9700 - 9800mm	100	100	9700 - 9800mm	100	100
9800 - 9900mm	100	100	9800 - 9900mm	100	100
9900 - 10000mm	100	100	9900 - 10000mm	100	100

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the

Development Project of the Industrial Port,

Project: on land Survey No. No 4

Location: D.D. Date of Testing:

Sample No. Depth: 1 m. SS - 27

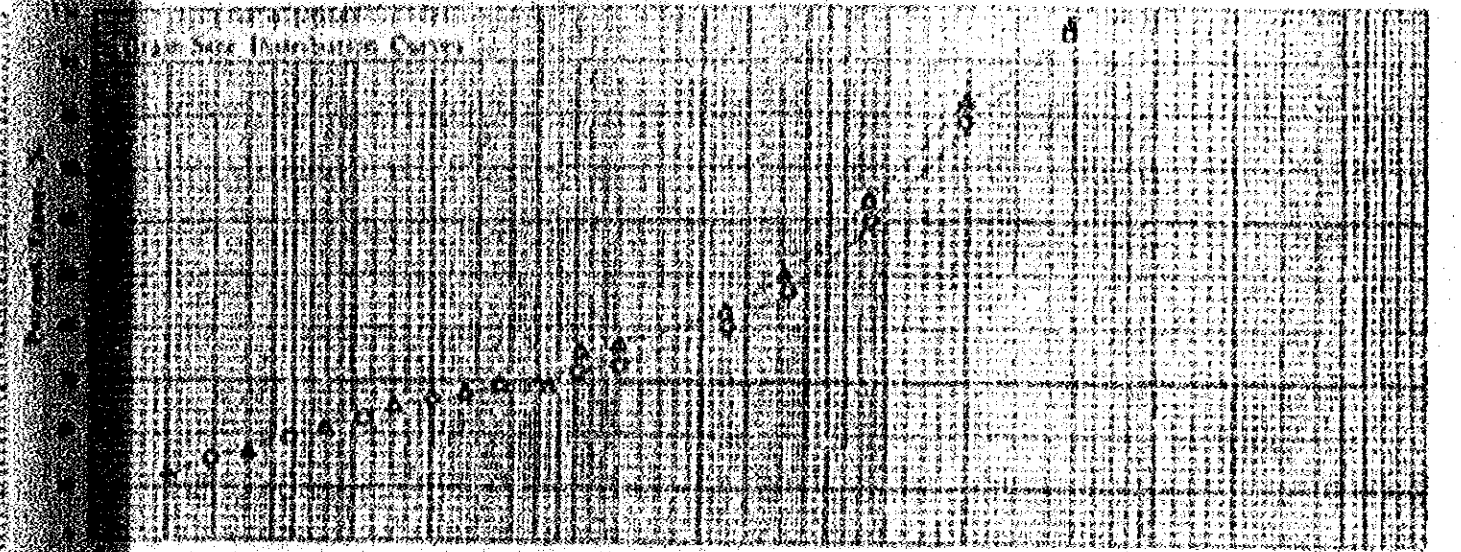
Grain Size	100	200	400	600	800	1000	1250	1500	1750	2000	2500	3000	3500	4000	4750	5500	6300	7500	8500	10000
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125

Sample No. Depth: 1 m. SS - 27

Grain Size	100	200	400	600	800	1000	1250	1500	1750	2000	2500	3000	3500	4000	4750	5500	6300	7500	8500	10000
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125

Sample No. Depth: 1 m. SS - 27

Grain Size	100	200	400	600	800	1000	1250	1500	1750	2000	2500	3000	3500	4000	4750	5500	6300	7500	8500	10000
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125



Grain Size Distribution Curve

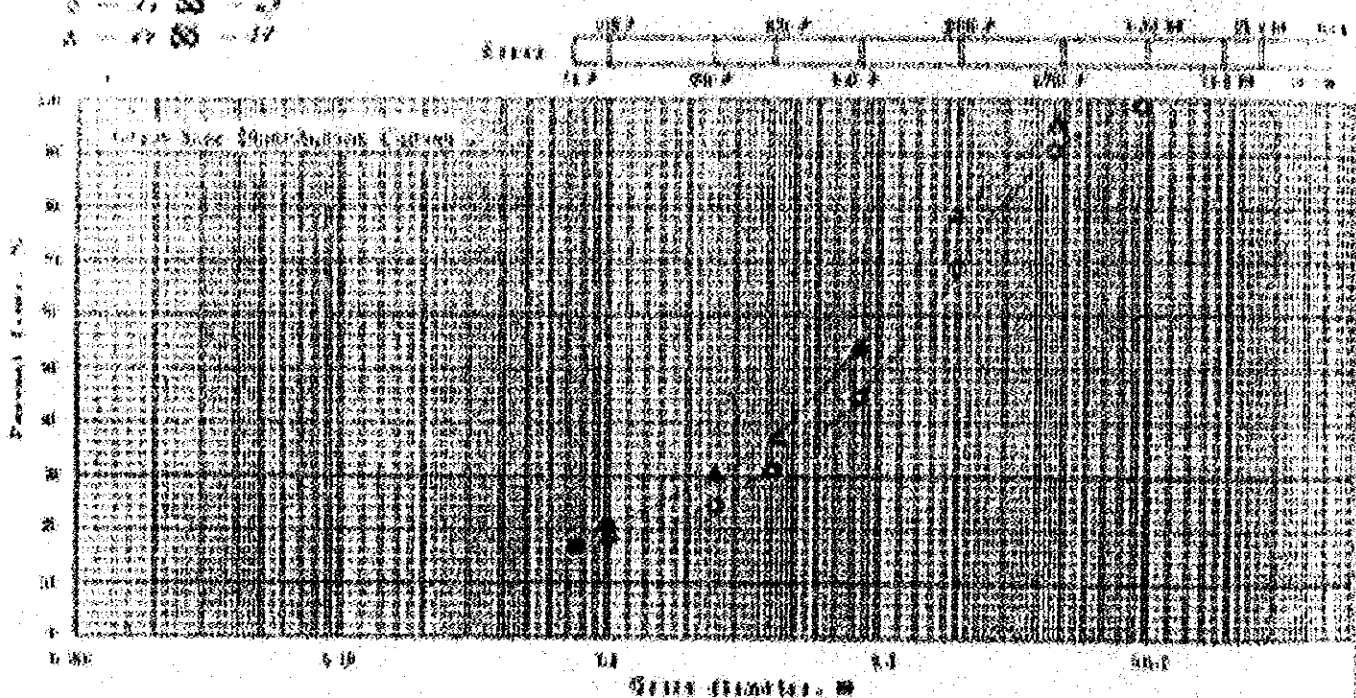
Grain Size	100	200	400	600	800	1000	1250	1500	1750	2000	2500	3000	3500	4000	4750	5500	6300	7500	8500	10000
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125
Weight %	100	98	95	90	85	75	65	55	45	35	25	15	10	5	3	2	1	0.5	0.25	0.125

The Natural Conditions Survey on the
Development Project of the Industrial Port.

on land

CONFIDENTIAL

No. 4

[illegible]

Channel	C112	C111	C113	C114
Sample No. Dryal	No. 88	No. 89	No. 90	No. 91
Larger than 4.75mm	1.2%	1.5%	1.5%	1.5%
4.75 to 2.0mm	22.6%	22.2%	22.2%	22.2%
2 to 0.85mm	42.6%	41.2%	41.2%	41.2%
0.85 to 0.425mm	24.9%	22.5%	22.5%	22.5%
0.425 to 0.25mm	10.4%	11.6%	11.6%	11.6%
Smaller than 0.075mm	1.3%	1.3%	1.3%	1.3%
Smaller than 0.0075mm	1.3%	1.3%	1.3%	1.3%
100% Sieve Passing	100%	100%	100%	100%
4.75mm Sieve Passing	100%	100%	100%	100%
0.075mm Sieve Passing	100%	100%	100%	100%

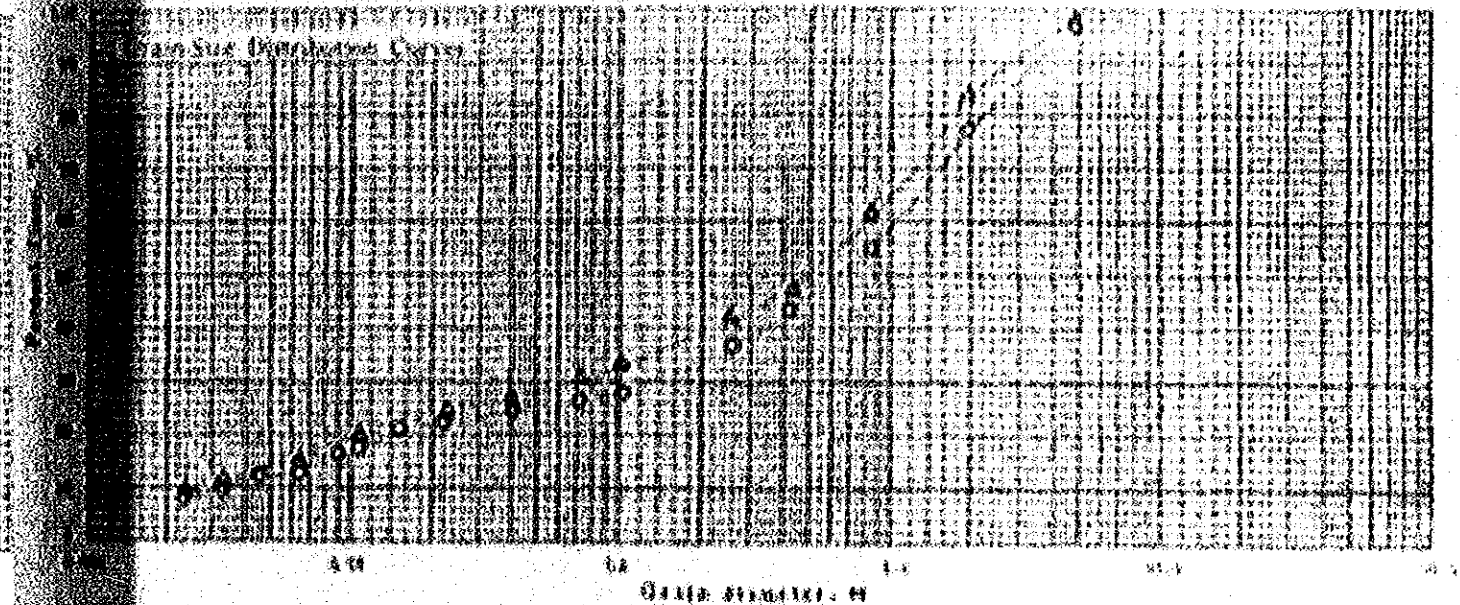
GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the Development Project of the Industrial Port.

Location of Project on land

Tested by B. D. Date of Testing

Dipole 1 No. 83 - 3/		Dipole 1 No. 83 - 3/		Dipole 1 No. 83 - 3/		Dipole 1 No. 83 - 3/		Dipole 1 No. 83 - 3/		Dipole 1 No. 83 - 3/		Dipole 1 No. 83 - 3/	
1	250	251	252	253	254	255	256	257	258	259	260	261	262
2	263	264	265	266	267	268	269	270	271	272	273	274	275
3	276	277	278	279	280	281	282	283	284	285	286	287	288
4	289	290	291	292	293	294	295	296	297	298	299	300	301
5	302	303	304	305	306	307	308	309	310	311	312	313	314
6	315	316	317	318	319	320	321	322	323	324	325	326	327
7	328	329	330	331	332	333	334	335	336	337	338	339	340
8	341	342	343	344	345	346	347	348	349	350	351	352	353
9	354	355	356	357	358	359	360	361	362	363	364	365	366
10	367	368	369	370	371	372	373	374	375	376	377	378	379
11	380	381	382	383	384	385	386	387	388	389	390	391	392
12	393	394	395	396	397	398	399	400	401	402	403	404	405
13	406	407	408	409	410	411	412	413	414	415	416	417	418
14	419	420	421	422	423	424	425	426	427	428	429	430	431
15	432	433	434	435	436	437	438	439	440	441	442	443	444
16	445	446	447	448	449	450	451	452	453	454	455	456	457
17	458	459	460	461	462	463	464	465	466	467	468	469	470
18	471	472	473	474	475	476	477	478	479	480	481	482	483
19	484	485	486	487	488	489	490	491	492	493	494	495	496
20	497	498	499	500	501	502	503	504	505	506	507	508	509
21	510	511	512	513	514	515	516	517	518	519	520	521	522
22	523	524	525	526	527	528	529	530	531	532	533	534	535
23	536	537	538	539	540	541	542	543	544	545	546	547	548
24	549	550	551	552	553	554	555	556	557	558	559	560	561
25	562	563	564	565	566	567	568	569	570	571	572	573	574
26	575	576	577	578	579	580	581	582	583	584	585	586	587
27	588	589	590	591	592	593	594	595	596	597	598	599	600
28	601	602	603	604	605	606	607	608	609	610	611	612	613
29	614	615	616	617	618	619	620	621	622	623	624	625	626
30	627	628	629	630	631	632	633	634	635				

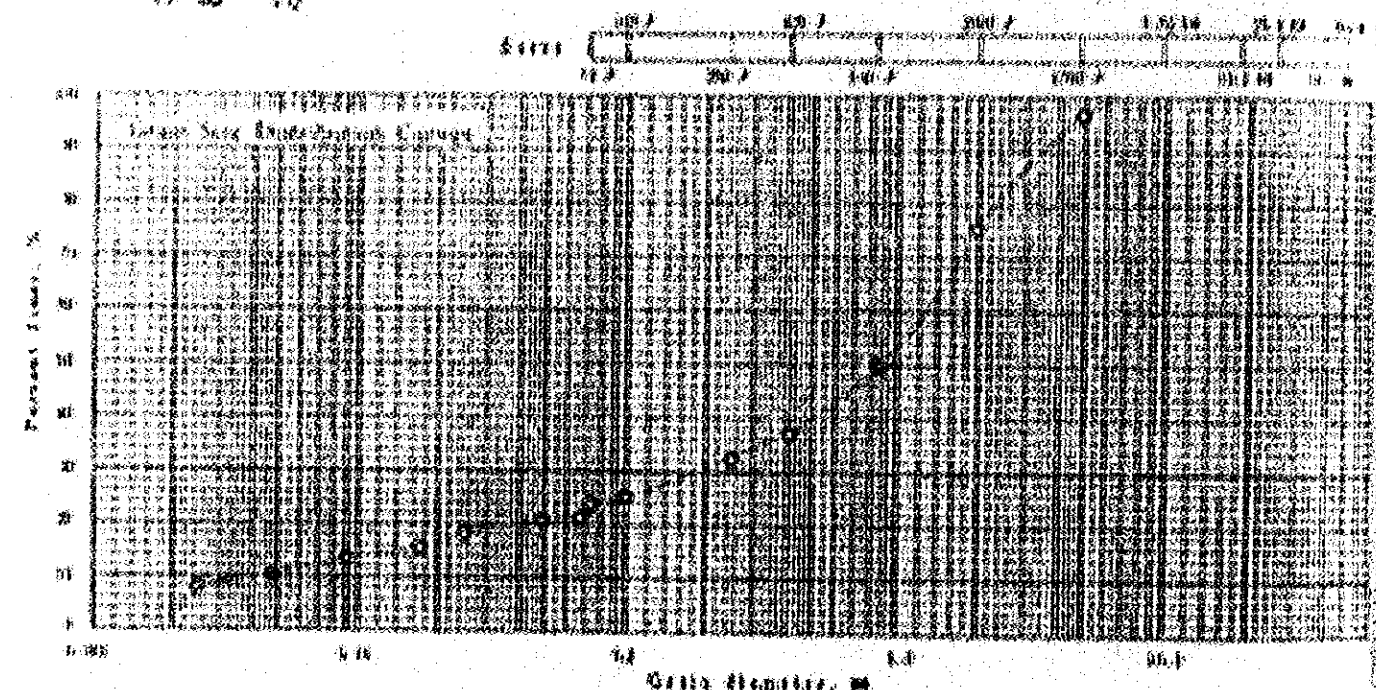
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GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Development Project of the Industrial Port.

Location of Sample on land No. 4

Point of D Date of Sampling 1954

Sample No.	Depth	10	20	30	40	50	60	70	80	90	100
1	0-10	100	100	100	100	100	100	100	100	100	100
2	10-20	100	100	100	100	100	100	100	100	100	100
3	20-30	100	100	100	100	100	100	100	100	100	100
4	30-40	100	100	100	100	100	100	100	100	100	100
5	40-50	100	100	100	100	100	100	100	100	100	100
6	50-60	100	100	100	100	100	100	100	100	100	100
7	60-70	100	100	100	100	100	100	100	100	100	100
8	70-80	100	100	100	100	100	100	100	100	100	100
9	80-90	100	100	100	100	100	100	100	100	100	100
10	90-100	100	100	100	100	100	100	100	100	100	100



Sample No.	Depth	No.	Grain Size	Percentage	Sample No.	Depth	No.	Grain Size	Percentage
1	0-10	1	Less than 0.075mm	100	1	0-10	1	Less than 0.075mm	100
2	10-20	2	0.075 - 0.15mm	100	2	10-20	2	0.075 - 0.15mm	100
3	20-30	3	0.15 - 0.3mm	100	3	20-30	3	0.15 - 0.3mm	100
4	30-40	4	0.3 - 0.6mm	100	4	30-40	4	0.3 - 0.6mm	100
5	40-50	5	0.6 - 1.18mm	100	5	40-50	5	0.6 - 1.18mm	100
6	50-60	6	1.18 - 2.0mm	100	6	50-60	6	1.18 - 2.0mm	100
7	60-70	7	2.0 - 4.75mm	100	7	60-70	7	2.0 - 4.75mm	100
8	70-80	8	4.75 - 9.5mm	100	8	70-80	8	4.75 - 9.5mm	100
9	80-90	9	9.5 - 19mm	100	9	80-90	9	9.5 - 19mm	100
10	90-100	10	19 - 37.5mm	100	10	90-100	10	19 - 37.5mm	100

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the Port Development Project of the Industrial Port,

Location of Project: off shore

Survey No.

No. 5

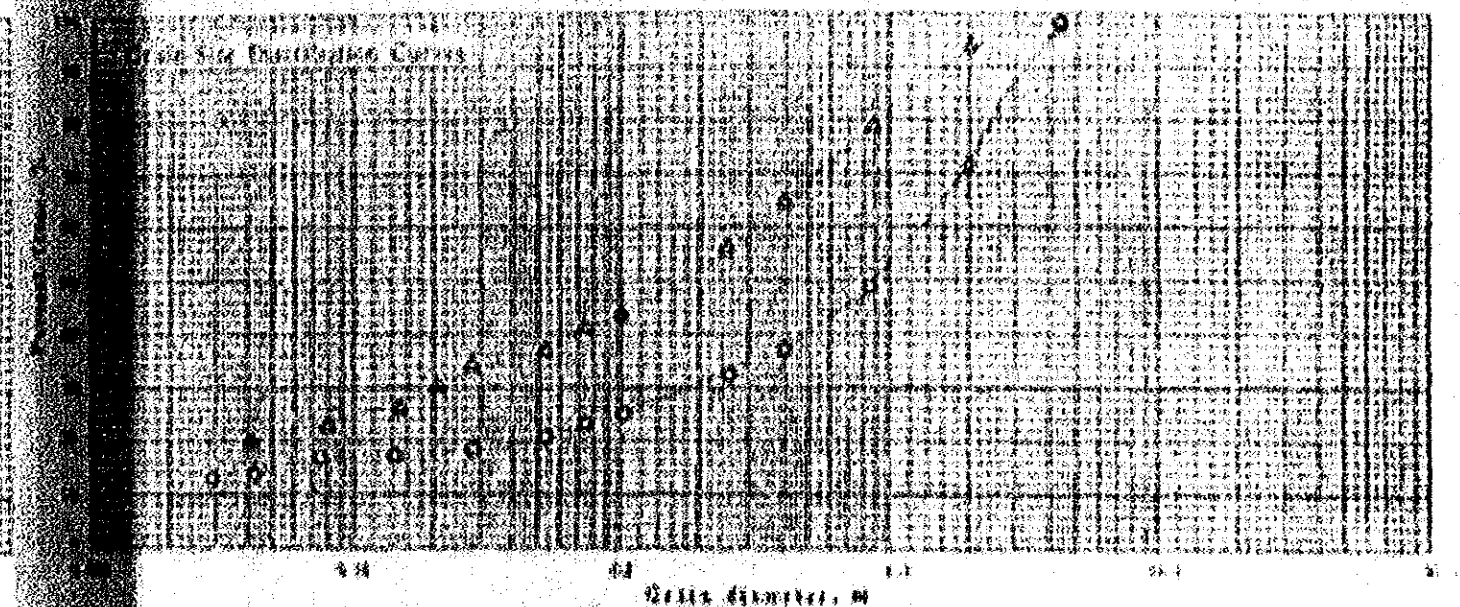
Station

B. D.

Date of Testing

Grain Size	100	200	400	600	800	1000	1250	1600	2000	2500	3000	3500	4000
Weight %	100	98.5	95.0	88.0	78.0	65.0	50.0	35.0	22.0	12.0	6.0	3.0	1.0
Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0	3.55	6.0	10.6	17.7	30.0	47.5	75.0
Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0	3.55	6.0	10.6	17.7	30.0	47.5	75.0

Grain Size	100	200	400	600	800	1000	1250	1600	2000	2500	3000	3500	4000
Weight %	100	98.5	95.0	88.0	78.0	65.0	50.0	35.0	22.0	12.0	6.0	3.0	1.0
Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0	3.55	6.0	10.6	17.7	30.0	47.5	75.0
Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0	3.55	6.0	10.6	17.7	30.0	47.5	75.0



Grain Size	100	200	400	600	800	1000	1250	1600	2000	2500	3000	3500	4000
Weight %	100	98.5	95.0	88.0	78.0	65.0	50.0	35.0	22.0	12.0	6.0	3.0	1.0
Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0	3.55	6.0	10.6	17.7	30.0	47.5	75.0
Grain Size (mm)	0.075	0.15	0.3	0.6	1.18	2.0	3.55	6.0	10.6	17.7	30.0	47.5	75.0

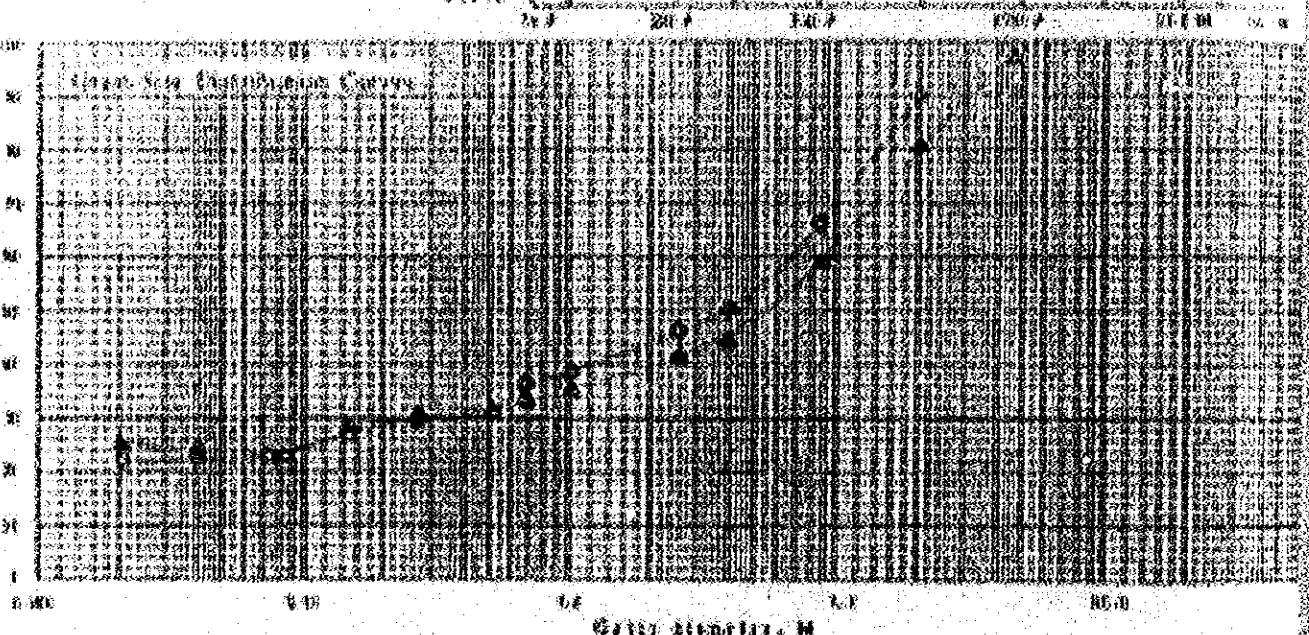
GRAIN SIZE DISTRIBUTION
 Natural Conditions Survey on the
 Project of the Port of the Industrial Port.

Location of Project off shore Survey No. No. 5

Vehicle No. 8 D Date of Testing

Sample No. Depth	No. 55	No. 55	No. 55	No. 55	No. 55	No. 55	No. 55	No. 55	No. 55	No. 55	No. 55
0.00 - 0.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.05 - 0.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.10 - 0.15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.15 - 0.20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.20 - 0.25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.25 - 0.30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.30 - 0.35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.35 - 0.40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.40 - 0.45	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.45 - 0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.50 - 0.55	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.55 - 0.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.60 - 0.65	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.65 - 0.70	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.70 - 0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.75 - 0.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.80 - 0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.85 - 0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.90 - 0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.95 - 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

0.00 - 0.05 0.05 - 0.10 0.10 - 0.15 0.15 - 0.20 0.20 - 0.25 0.25 - 0.30 0.30 - 0.35 0.35 - 0.40 0.40 - 0.45 0.45 - 0.50 0.50 - 0.55 0.55 - 0.60 0.60 - 0.65 0.65 - 0.70 0.70 - 0.75 0.75 - 0.80 0.80 - 0.85 0.85 - 0.90 0.90 - 0.95 0.95 - 1.00



Grain	0.075	0.15	0.3	0.6	0.85
Percentage	100	100	100	100	0

Sample No. Depth	No. 55	No. 55	Sample No. Depth	No. 55	No. 55
0.00 - 0.05	1.00	1.00	0.00 - 0.05	1.00	1.00
0.05 - 0.10	1.00	1.00	0.05 - 0.10	1.00	1.00
0.10 - 0.15	1.00	1.00	0.10 - 0.15	1.00	1.00
0.15 - 0.20	1.00	1.00	0.15 - 0.20	1.00	1.00
0.20 - 0.25	1.00	1.00	0.20 - 0.25	1.00	1.00
0.25 - 0.30	1.00	1.00	0.25 - 0.30	1.00	1.00
0.30 - 0.35	1.00	1.00	0.30 - 0.35	1.00	1.00
0.35 - 0.40	1.00	1.00	0.35 - 0.40	1.00	1.00
0.40 - 0.45	1.00	1.00	0.40 - 0.45	1.00	1.00
0.45 - 0.50	1.00	1.00	0.45 - 0.50	1.00	1.00
0.50 - 0.55	1.00	1.00	0.50 - 0.55	1.00	1.00
0.55 - 0.60	1.00	1.00	0.55 - 0.60	1.00	1.00
0.60 - 0.65	1.00	1.00	0.60 - 0.65	1.00	1.00
0.65 - 0.70	1.00	1.00	0.65 - 0.70	1.00	1.00
0.70 - 0.75	1.00	1.00	0.70 - 0.75	1.00	1.00
0.75 - 0.80	1.00	1.00	0.75 - 0.80	1.00	1.00
0.80 - 0.85	1.00	1.00	0.80 - 0.85	1.00	1.00
0.85 - 0.90	1.00	1.00	0.85 - 0.90	1.00	1.00
0.90 - 0.95	1.00	1.00	0.90 - 0.95	1.00	1.00
0.95 - 1.00	1.00	1.00	0.95 - 1.00	1.00	1.00

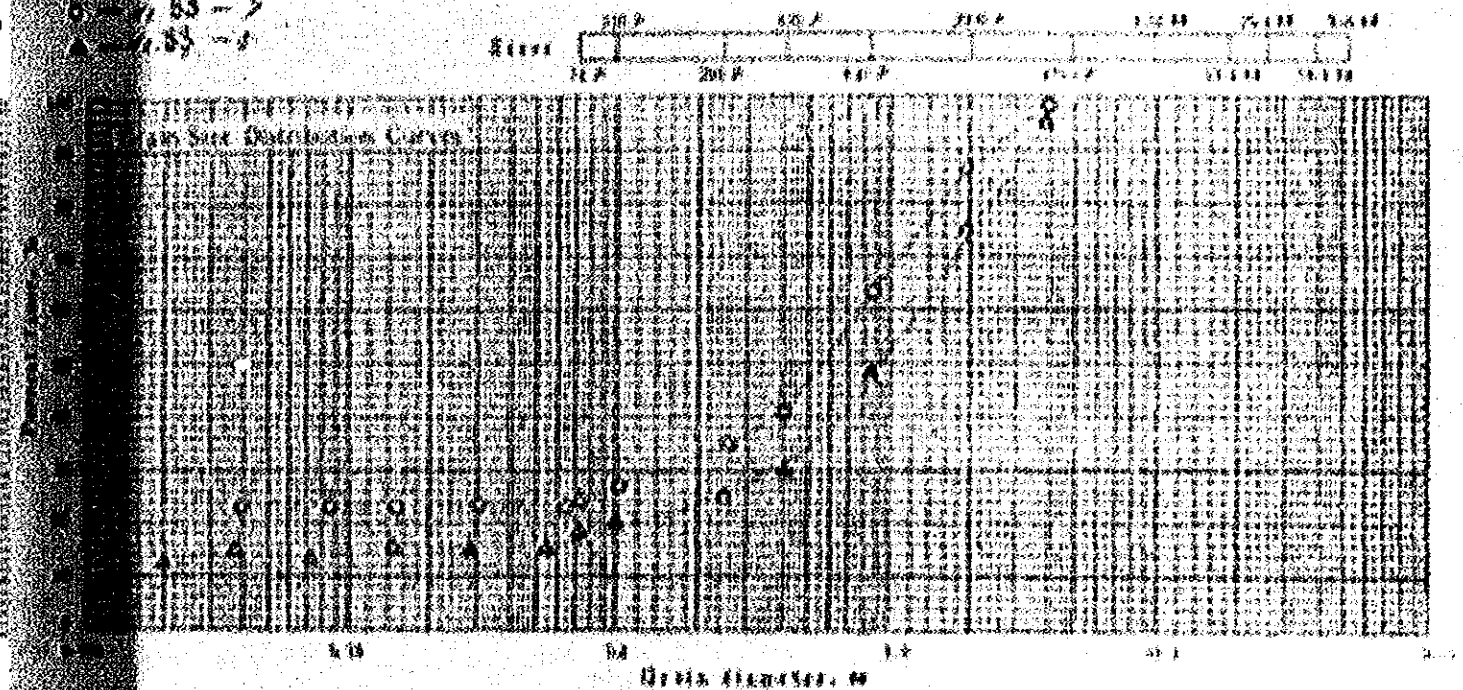
GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Development Project of the Industrial Port.

off shore

Category	Score	Date of Testing
1. General Knowledge	80	10/10/2023
2. Mathematics	75	10/10/2023
3. Science	85	10/10/2023
4. History	70	10/10/2023
5. Language Arts	82	10/10/2023
6. Social Studies	78	10/10/2023
7. Art	65	10/10/2023
8. Music	60	10/10/2023
9. Physical Education	72	10/10/2023
10. Health	68	10/10/2023
11. Computer Science	75	10/10/2023
12. Foreign Languages	70	10/10/2023
13. Career Education	65	10/10/2023
14. Life Skills	60	10/10/2023
15. Personal Development	65	10/10/2023
16. Environmental Studies	68	10/10/2023
17. Business	70	10/10/2023
18. Law	72	10/10/2023
19. Medicine	75	10/10/2023
20. Engineering	78	10/10/2023
21. Agriculture	80	10/10/2023
22. Forestry	82	10/10/2023
23. Fisheries	85	10/10/2023
24. Mining	88	10/10/2023
25. Manufacturing	90	10/10/2023
26. Transportation	92	10/10/2023
27. Construction	95	10/10/2023
28. Architecture	98	10/10/2023
29. Design	100	10/10/2023
30. Creative Arts	100	10/10/2023

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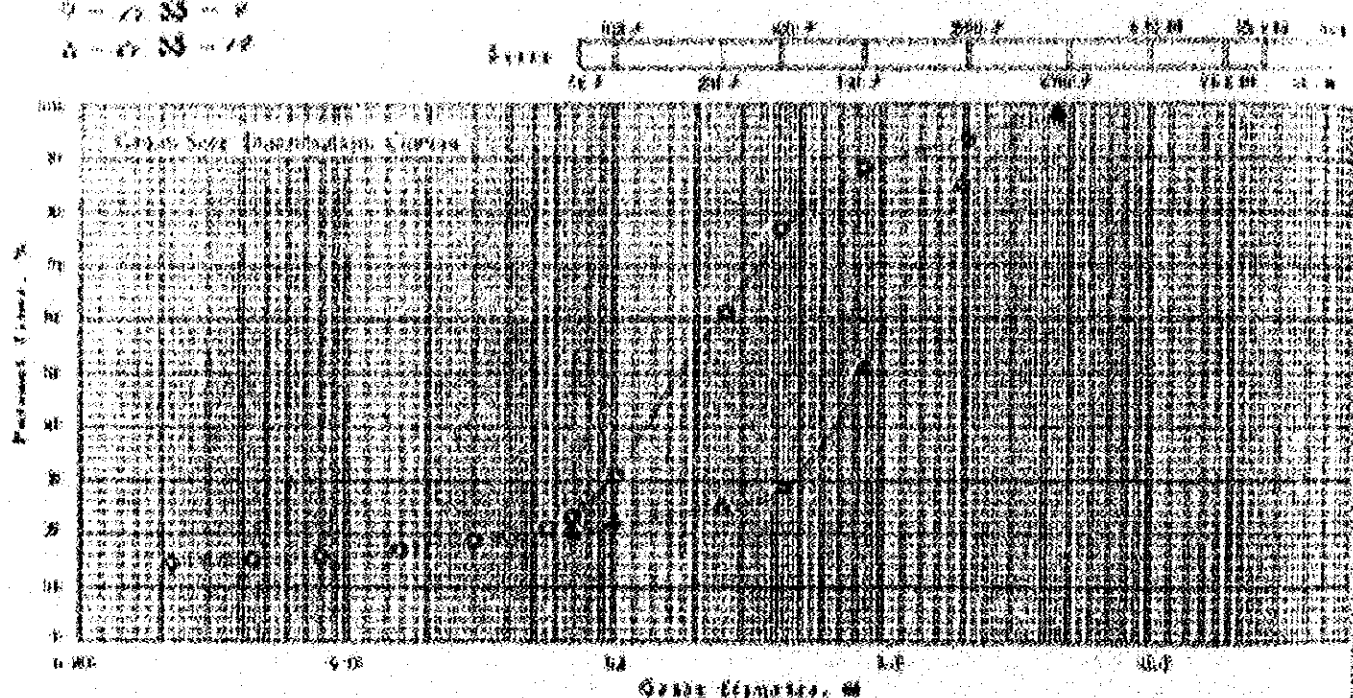
65-2



1117		1118		1119		1120	
0.00		0.00		0.00		0.00	
Sample No.	Depth	Sample No.	Depth	Sample No.	Depth	Sample No.	Depth
1117-1	0.00	1118-1	0.00	1119-1	0.00	1120-1	0.00
1117-2	0.01	1118-2	0.01	1119-2	0.01	1120-2	0.01
1117-3	0.02	1118-3	0.02	1119-3	0.02	1120-3	0.02
1117-4	0.03	1118-4	0.03	1119-4	0.03	1120-4	0.03
1117-5	0.04	1118-5	0.04	1119-5	0.04	1120-5	0.04
1117-6	0.05	1118-6	0.05	1119-6	0.05	1120-6	0.05
1117-7	0.06	1118-7	0.06	1119-7	0.06	1120-7	0.06
1117-8	0.07	1118-8	0.07	1119-8	0.07	1120-8	0.07
1117-9	0.08	1118-9	0.08	1119-9	0.08	1120-9	0.08
1117-10	0.09	1118-10	0.09	1119-10	0.09	1120-10	0.09
1117-11	0.10	1118-11	0.10	1119-11	0.10	1120-11	0.10
1117-12	0.11	1118-12	0.11	1119-12	0.11	1120-12	0.11
1117-13	0.12	1118-13	0.12	1119-13	0.12	1120-13	0.12
1117-14	0.13	1118-14	0.13	1119-14	0.13	1120-14	0.13
1117-15	0.14	1118-15	0.14	1119-15	0.14	1120-15	0.14
1117-16	0.15	1118-16	0.15	1119-16	0.15	1120-16	0.15
1117-17	0.16	1118-17	0.16	1119-17	0.16	1120-17	0.16
1117-18	0.17	1118-18	0.17	1119-18	0.17	1120-18	0.17
1117-19	0.18	1118-19	0.18	1119-19	0.18	1120-19	0.18
1117-20	0.19	1118-20	0.19	1119-20	0.19	1120-20	0.19
1117-21	0.20	1118-21	0.20	1119-21	0.20	1120-21	0.20
1117-22	0.21	1118-22	0.21	1119-22	0.21	1120-22	0.21
1117-23	0.22	1118-23	0.22	1119-23	0.22	1120-23	0.22
1117-24	0.23	1118-24	0.23	1119-24	0.23	1120-24	0.23
1117-25	0.24	1118-25	0.24	1119-25	0.24	1120-25	0.24
1117-26	0.25	1118-26	0.25	1119-26	0.25	1120-26	0.25
1117-27	0.26	1118-27	0.26	1119-27	0.26	1120-27	0.26
1117-28	0.27	1118-28	0.27	1119-28	0.27	1120-28	0.27
1117-29	0.28	1118-29	0.28	1119-29	0.28	1120-29	0.28
1117-30	0.29	1118-30	0.29	1119-30	0.29	1120-30	0.29
1117-31	0.30	1118-31	0.30	1119-31	0.30	1120-31	0.30
1117-32	0.31	1118-32	0.31	1119-32	0.31	1120-32	0.31
1117-33	0.32	1118-33	0.32	1119-33	0.32	1120-33	0.32
1117-34	0.33	1118-34	0.33	1119-34	0.33	1120-34	0.33
1117-35	0.34	1118-35	0.34	1119-35	0.34	1120-35	0.34
1117-36	0.35	1118-36	0.35	1119-36	0.35	1120-36	0.35
1117-37	0.36	1118-37	0.36	1119-37	0.36	1120-37	0.36
1117-38	0.37	1118-38	0.37	1119-38	0.37	1120-38	0.37
1117-39	0.38	1118-39	0.38	1119-39	0.38	1120-39	0.38
1117-40	0.39	1118-40	0.39	1119-40	0.39		

The Natural Conditions Survey on the
Development Project of the Ichihara Port.

N 6

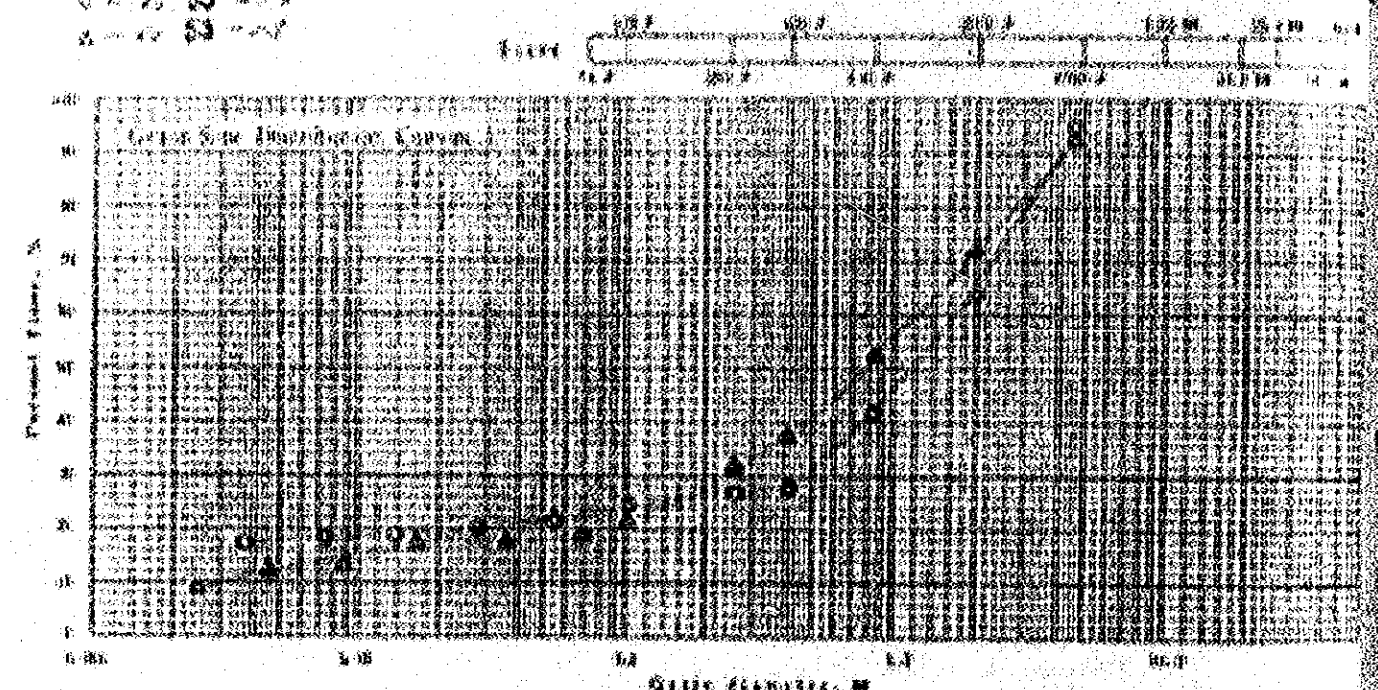
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GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
River Development Project of the Ichihara Port.

Location of Project off shore Station No. No. 5

Project No. 3-2 Date of Testing

Sample No. Depth No. SS - 1	SS - 2	SS - 3	SS - 4	SS - 5	SS - 6	SS - 7	SS - 8	SS - 9	SS - 10	SS - 11	SS - 12
Grain. #	100	100	100	100	100	100	100	100	100	100	100
% Passing											
Grain. #	100	100	100	100	100	100	100	100	100	100	100
% Passing											



Grain Size	0.075	0.15	0.3	0.6	1.18	2.5	5.0	75
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Sample No. Depth	No. SS - 1	No. SS - 2	Sample No. Depth	No. SS - 3	No. SS - 4
Larger than 4.75mm	100	100	Larger than 4.75mm	100	100
4.75 - 7.5mm	100	100	4.75 - 7.5mm	100	100
7.5 - 12.5mm	100	100	7.5 - 12.5mm	100	100
12.5 - 20mm	100	100	12.5 - 20mm	100	100
20 - 30mm	100	100	20 - 30mm	100	100
30 - 47.5mm	100	100	30 - 47.5mm	100	100
47.5 - 75mm	100	100	47.5 - 75mm	100	100
75 - 100mm	100	100	75 - 100mm	100	100
100 - 150mm	100	100	100 - 150mm	100	100
150 - 200mm	100	100	150 - 200mm	100	100
200 - 250mm	100	100	200 - 250mm	100	100
250 - 300mm	100	100	250 - 300mm	100	100
300 - 350mm	100	100	300 - 350mm	100	100
350 - 400mm	100	100	350 - 400mm	100	100
400 - 450mm	100	100	400 - 450mm	100	100
450 - 500mm	100	100	450 - 500mm	100	100
500 - 550mm	100	100	500 - 550mm	100	100
550 - 600mm	100	100	550 - 600mm	100	100
600 - 650mm	100	100	600 - 650mm	100	100
650 - 700mm	100	100	650 - 700mm	100	100
700 - 750mm	100	100	700 - 750mm	100	100
750 - 800mm	100	100	750 - 800mm	100	100
800 - 850mm	100	100	800 - 850mm	100	100
850 - 900mm	100	100	850 - 900mm	100	100
900 - 950mm	100	100	900 - 950mm	100	100
950 - 1000mm	100	100	950 - 1000mm	100	100

GRANITE SIZE DISTRIBUTION

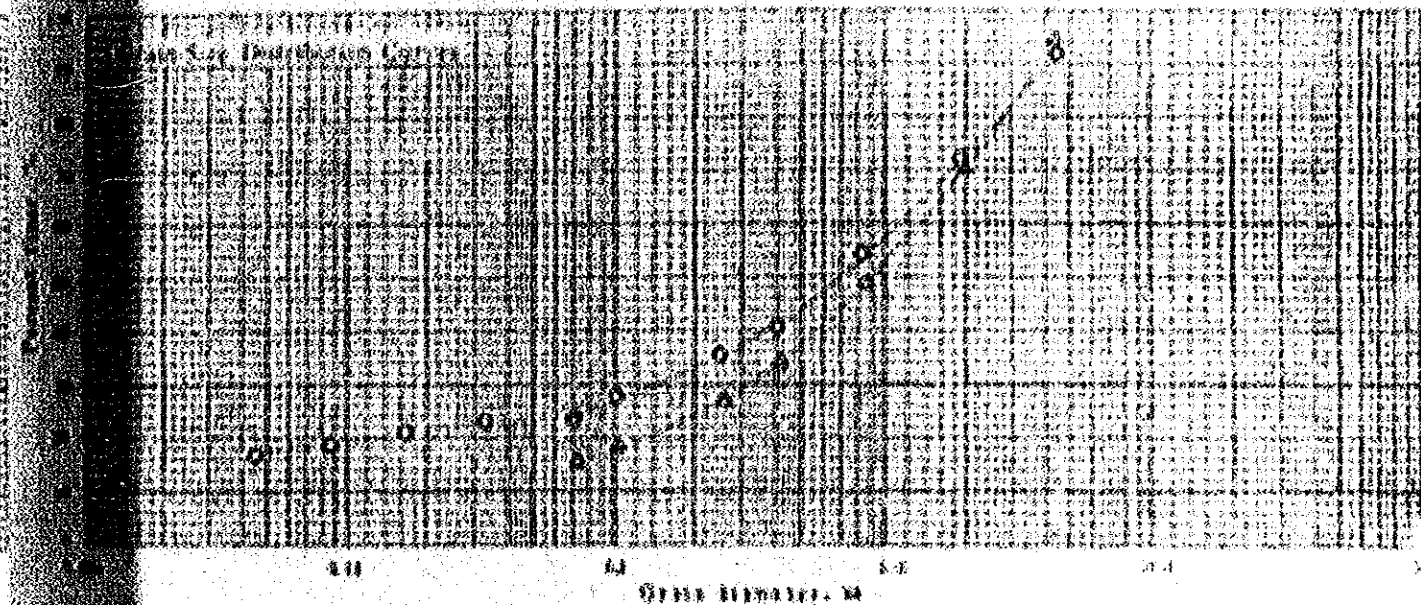
off shore

TURNKEY	DATE OF TESTING

[illegible]

0-17-58-16
A-17-58-17

11478 11479 11480 11481 11482 11483 11484 11485 11486 11487 11488 11489 11490 11491 11492 11493 11494 11495 11496 11497 11498 11499 11500 11501 11502 11503 11504 11505 11506 11507 11508 11509 11510 11511 11512 11513 11514 11515 11516 11517 11518 11519 11520 11521 11522 11523 11524 11525 11526 11527 11528 11529 11530 11531 11532 11533 11534 11535 11536 11537 11538 11539 11540 11541 11542 11543 11544 11545 11546 11547 11548 11549 11550 11551 11552 11553 11554 11555 11556 11557 11558 11559 11560 11561 11562 11563 11564 11565 11566 11567 11568 11569 11570 11571 11572 11573 11574 11575 11576 11577 11578 11579 11580 11581 11582 11583 11584 11585 11586 11587 11588 11589 11590 11591 11592 11593 11594 11595 11596 11597 11598 11599 11600 11601 11602 11603 11604 11605 11606 11607 11608 11609 11610 11611 11612 11613 11614 11615 11616 11617 11618 11619 11620 11621 11622 11623 11624 11625 11626 11627 11628 11629 11630 11631 11632 11633 11634 11635 11636 11637 11638 11639 11640 11641 11642 11643 11644 11645 11646 11647 11648 11649 11650 11651 11652 11653 11654 11655 11656 11657 11658 11659 11660 11661 11662 11663 11664 11665 11666 11667 11668 11669 11670 11671 11672 11673 11674 11675 11676 11677 11678 11679 11680 11681 11682 11683 11684 11685 11686 11687 11688 11689 11690 11691 11692 11693 11694 11695 11696 11697 11698 11699 11700 11701 11702 11703 11704 11705 11706 11707 11708 11709 11710 11711 11712 11713 11714 11715 11716 11717 11718 11719 11720 11721 11722 11723 11724 11725 11726 11727 11728 11729 11730 11731 11732 11733 11734 11735 11736 11737 11738 11739 11740 11741 11742 11743 11744 11745 11746 11747 11748 11749 11750 11751 11752 11753 11754 11755 11756 11757 11758 11759 11760 11761 11762 11763 11764 11765 11766 11767 11768 11769 11770 11771 11772 11773 11774 11775 11776 11777 11778 11779 11780 11781 11782 11783 11784 11785 11786 11787 11788 11789 11790 11791 11792 11793 11794 11795 11796 11797 11798 11799 11800 11801 11802 11803 11804 11805 11806 11807 11808 11809 11810 11811 11812 11813 11814 11815 11816 11817 11818 11819 11820 11821 11822 11823 11824 11825 11826 11827 11828 11829 11830 11831 11832 11833 11834 11835 11836 11837 11838 11839 11840 11841 11842 11843 11844 11845 11846 11847 11848 11849 11850 11851 11852 11853 11854 11855 11856 11857 11858 11859 11860 11861 11862 11863 11864 11865 11866 11867 11868 11869 11870 11871 11872 11873 11874 11875 11876 11877 11878 11879 11880 11881 11882 11883 11884 11885 11886 11887 11888 11889 11890 11891 11892 11893 11894 11895 11896 11897 11898 11899 11900 11901 11902 11903 11904 11905 11906 11907 11908 11909 11910 11911 11912 11913 11914 11915 11916 11917 11918 11919 11920 11921 11922 11923 11924 11925 11926 11927 11928 11929 11930 11931 11932 11933 11934 11935 11936 11937 11938 11939 11940 11941 11942 11943 11944 11945 11946 11947 11948 11949 11950 11951 11952 11953 11954 11955 11956 11957 11958 11959 11960 11961 11962 11963 11964 11965 11966 11967 11968 11969 11970 11971 11972 11973 11974 11975 11976 11977 11978 11979 11980 11981 11982 11983 11984 11985 11986 11987 11988 11989 11990 11991 11992 11993 11994 11995 11996 11997 11998 11999 12000 12001 12002 12003 12004 12005 12006 12007 12008 12009 12010 12011 12012 12013 12014 12015 12016 12017 12018 12019 12020 12021 12022 12023 12024 12025 12026 12027 12028 12029 12030 12031 12032 12033 12034 12035 12036 12037 12038 12039 12040 12041 12042 12043 12044 12045 12046 12047 12048 12049 12050 12051 12052 12053 12054 12055 12056 12057 12058 12059 12060 12061 12062 12063 12064 12065 12066 12067 12068 12069 12070 12071 12072 12073 12074 12075 12076 12077 12078 12079 12080 12081 12082 12083 12084 12085 12086 12087 12088 12089 12090 12091 12092 12093 12094 12095 12096 12097 12098 12099 12100 12101 12102 12103 12104 12105 12106 12107 12108 12109 12110 12111 12112 12113 12114 12115 12116 12117 12118 12119 12120 12121 12122 12123 12124 12125 12126 12127 12128 12129 12130 12131 12132 12133 12134 12135 12136 12137 12138 12139 12140 12141 12142 12143 12144 12145 12146 12147 12148 12149 12150 12151 12152 12153 12154 12155 12156 12157 12158 12159 12



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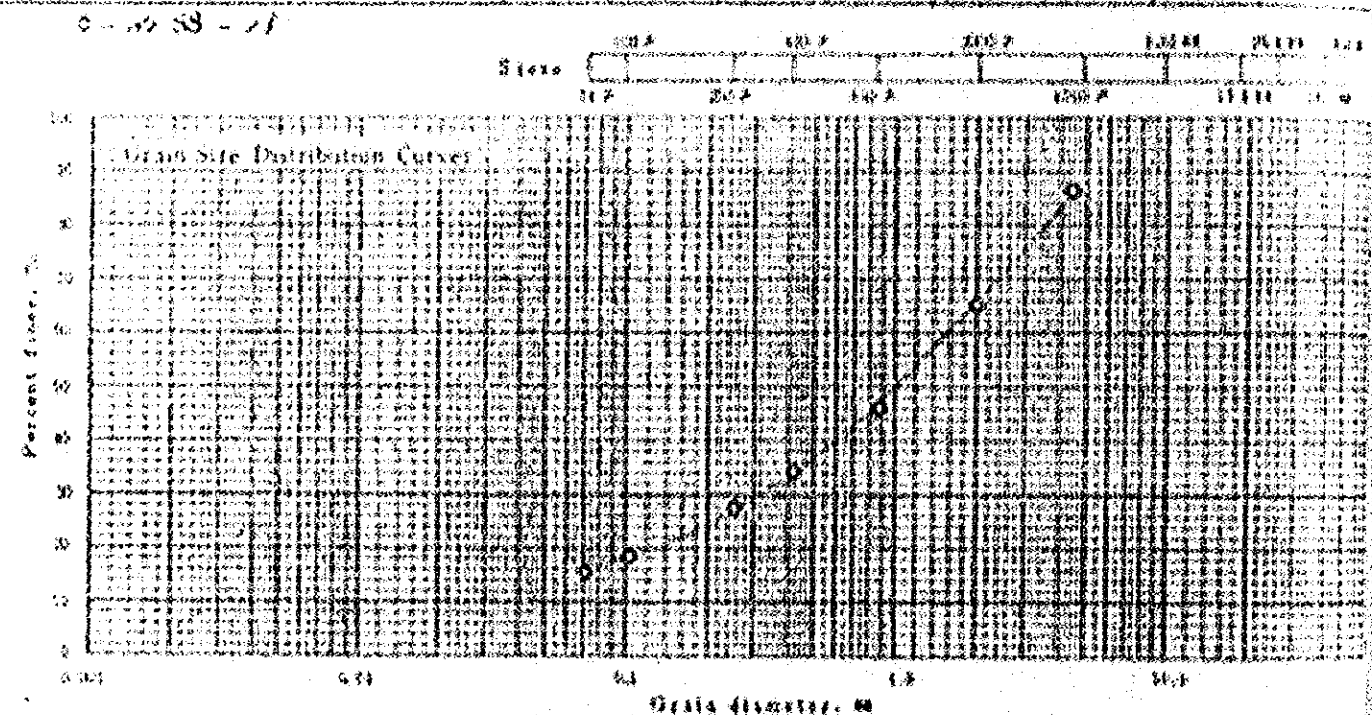
GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the Development Project of the Industrial Port.

Location of Project: off shore Boring No. No. 5

Tested by: S. D. Date of Testing:

Sample No. Depth (No. 55 - 1)		Grain Size Distribution (%)									
Diam. (mm)	500	250	150	75	47.5	25	15	7.5	4.75	2.5	1.18
% Passing											
Grain. (mm)											
% Passing											



Grain Size	500	250	150	75	47.5	25	15	7.5	4.75	2.5	1.18
Grain. (mm)											
% Passing											

Sample No. Depth	No. 55 - 1	No. 55 - 2	Sample No. Depth	No. 55 - 3	No. 55 - 4
Larger than 475mm	100	100	Larger than 475mm	100	100
475 ~ 250	100	100	475 ~ 250	100	100
250 ~ 150	100	100	250 ~ 150	100	100
150 ~ 75	100	100	150 ~ 75	100	100
75 ~ 47.5	100	100	75 ~ 47.5	100	100
47.5 ~ 25	100	100	47.5 ~ 25	100	100
25 ~ 15	100	100	25 ~ 15	100	100
15 ~ 7.5	100	100	15 ~ 7.5	100	100
7.5 ~ 4.75	100	100	7.5 ~ 4.75	100	100
4.75 ~ 2.5	100	100	4.75 ~ 2.5	100	100
2.5 ~ 1.18	100	100	2.5 ~ 1.18	100	100
1.18 ~ 0.85	100	100	1.18 ~ 0.85	100	100
0.85 ~ 0.6	100	100	0.85 ~ 0.6	100	100
0.6 ~ 0.425	100	100	0.6 ~ 0.425	100	100
0.425 ~ 0.3	100	100	0.425 ~ 0.3	100	100
0.3 ~ 0.25	100	100	0.3 ~ 0.25	100	100
0.25 ~ 0.15	100	100	0.25 ~ 0.15	100	100
0.15 ~ 0.075	100	100	0.15 ~ 0.075	100	100
Smaller than 0.075mm	100	100	Smaller than 0.075mm	100	100
Smaller than 0.0075mm	100	100	Smaller than 0.0075mm	100	100
2000 Sieve Passing	100	100	2000 Sieve Passing	100	100
400 Sieve Passing	100	100	400 Sieve Passing	100	100
75 Sieve Passing	100	100	75 Sieve Passing	100	100

GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Project Development Project of the Industrial Port.

1971-72

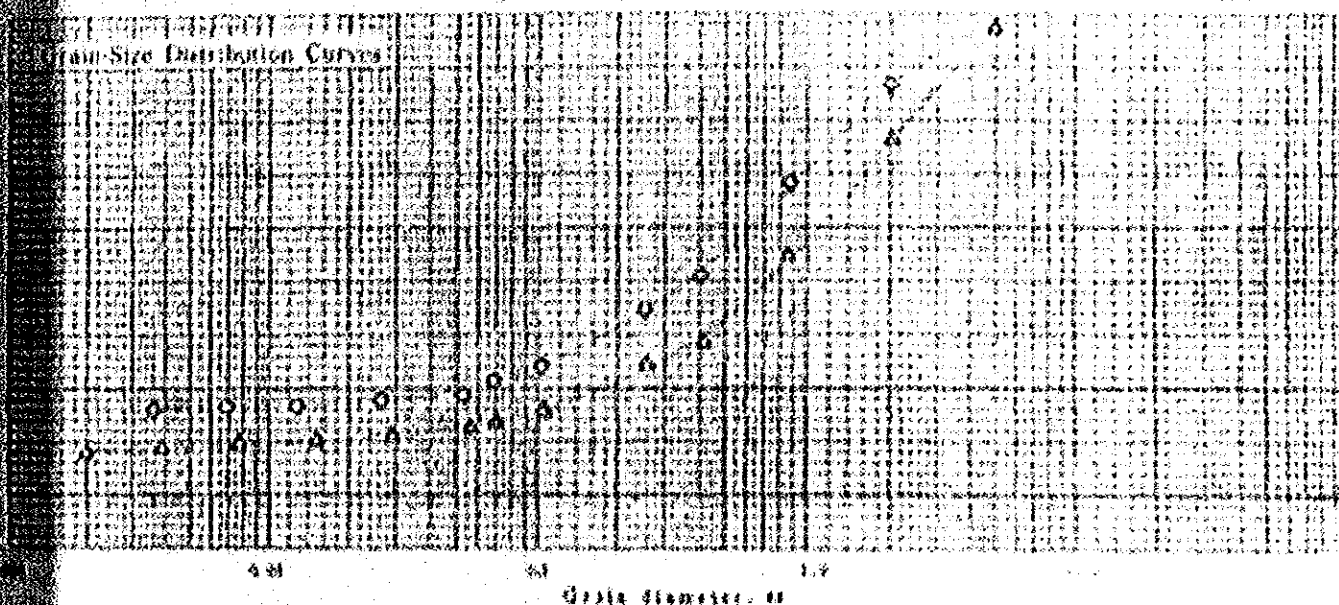
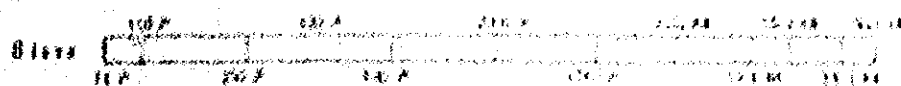
THE

B.D.

Date of Testing

0-10 SS - 2

44-38861-6

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Sample No.	Depth	No. 33 - 4	No. 33 - 4	Sample No.	Depth	No. 33 - 4	No. 33 - 4
1700	1700	2.6	2.7	1700	1700	2.6	2.7
1710	1710	2.6	2.7	1710	1710	2.6	2.7
1720	1720	2.6	2.7	1720	1720	2.6	2.7
1730	1730	2.6	2.7	1730	1730	2.6	2.7
1740	1740	2.6	2.7	1740	1740	2.6	2.7
1750	1750	2.6	2.7	1750	1750	2.6	2.7
1760	1760	2.6	2.7	1760	1760	2.6	2.7
1770	1770	2.6	2.7	1770	1770	2.6	2.7
1780	1780	2.6	2.7	1780	1780	2.6	2.7
1790	1790	2.6	2.7	1790	1790	2.6	2.7
1800	1800	2.6	2.7	1800	1800	2.6	2.7
1810	1810	2.6	2.7	1810	1810	2.6	2.7
1820	1820	2.6	2.7	1820	1820	2.6	2.7
1830	1830	2.6	2.7	1830	1830	2.6	2.7
1840	1840	2.6	2.7	1840	1840	2.6	2.7
1850	1850	2.6	2.7	1850	1850	2.6	2.7
1860	1860	2.6	2.7	1860	1860	2.6	2.7
1870	1870	2.6	2.7	1870	1870	2.6	2.7
1880	1880	2.6	2.7	1880	1880	2.6	2.7
1890	1890	2.6	2.7	1890	1890	2.6	2.7
1900	1900	2.6	2.7	1900	1900	2.6	2.7
1910	1910	2.6	2.7	1910	1910	2.6	2.7
1920	1920	2.6	2.7	1920	1920	2.6	2.7
1930	1930	2.6	2.7	1930	1930	2.6	2.7
1940	1940	2.6	2.7	1940	1940	2.6	2.7
1950	1950	2.6	2.7	1950	1950	2.6	2.7
1960	1960	2.6	2.7	1960	1960	2.6	2.7
1970	1970	2.6	2.7	1970	1970	2.6	2.7
1980	1980	2.6	2.7	1980	1980	2.6	2.7
1990	1990	2.6	2.7	1990	1990	2.6	2.7
2000	2000	2.6	2.7	2000	2000	2.6	2.7

GRAIN SIZE DISTRIBUTION

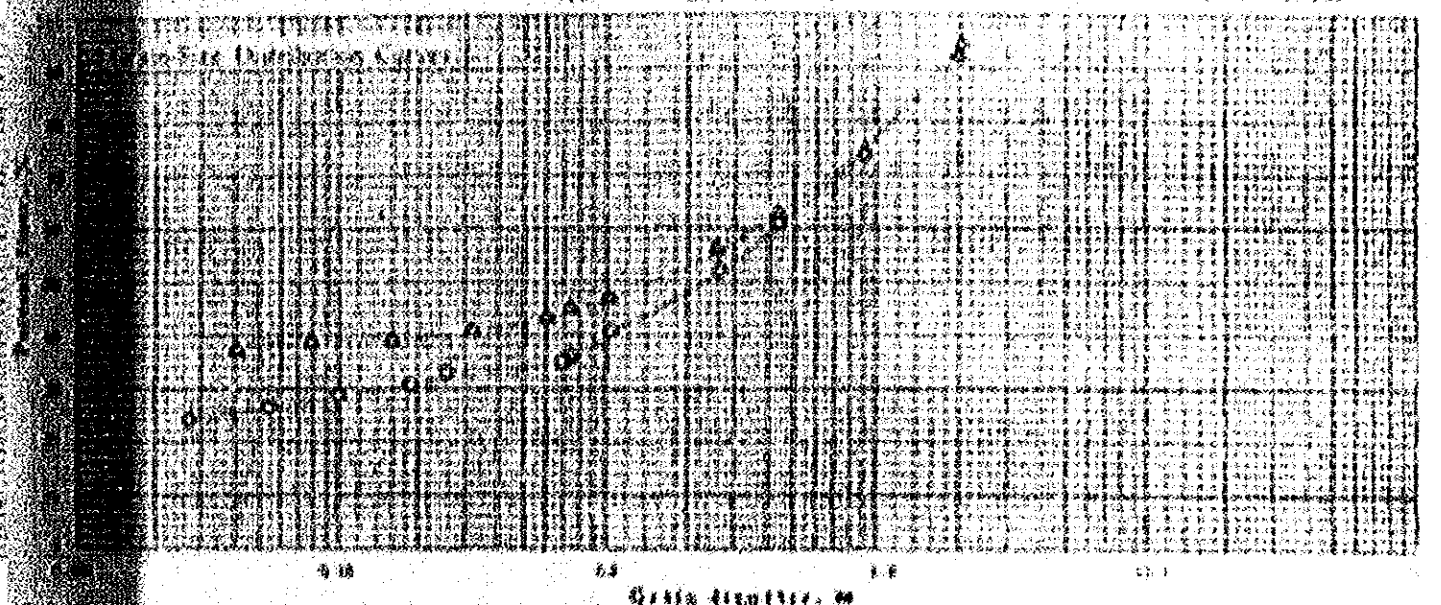
The Natural Conditions Survey on the Project Development Project of the Industrial Port,

Location of Project off shore Boring No. No. 6

Station S. D. Date of Testing

Boring No. Depth: No. 83 - 6											
Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075	0.0425	0.025	0.015	0.0075
Weight %	100	100	100	100	100	100	100	100	100	100	100
Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075	0.0425	0.025	0.015	0.0075
Weight %	100	100	100	100	100	100	100	100	100	100	100

Boring No. Depth: No. 83 - 7											
Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075	0.0425	0.025	0.015	0.0075
Weight %	100	100	100	100	100	100	100	100	100	100	100
Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075	0.0425	0.025	0.015	0.0075
Weight %	100	100	100	100	100	100	100	100	100	100	100



Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075	0.0425	0.025	0.015	0.0075
------------	------	-----	------	-----	-----	------	-------	--------	-------	-------	--------

Boring No. 83 - 6		Boring No. 83 - 7		Boring No. 83 - 6		Boring No. 83 - 7	
Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075
Weight %	100	100	100	100	100	100	100
Grain Size	4.75	2.5	1.18	0.6	0.3	0.15	0.075
Weight %	100	100	100	100	100	100	100

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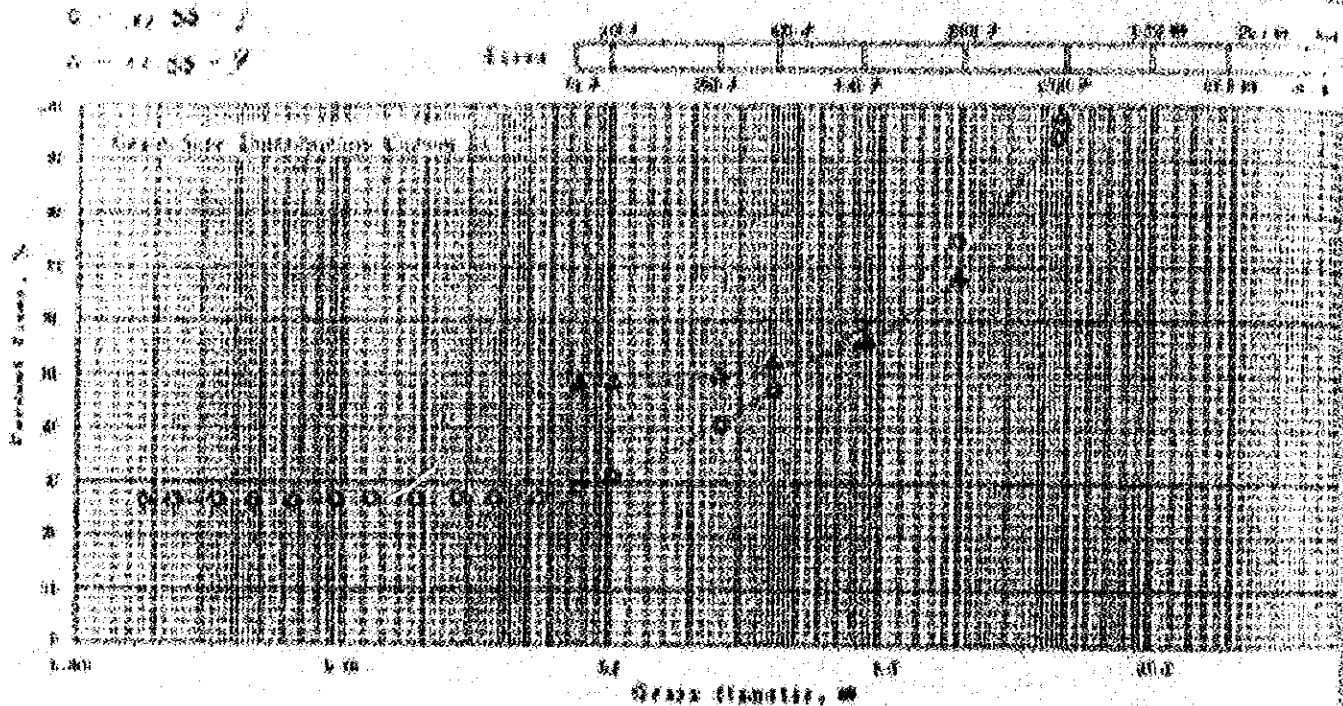
The Natural Conditions Survey on the Development Project of the Industrial Port.

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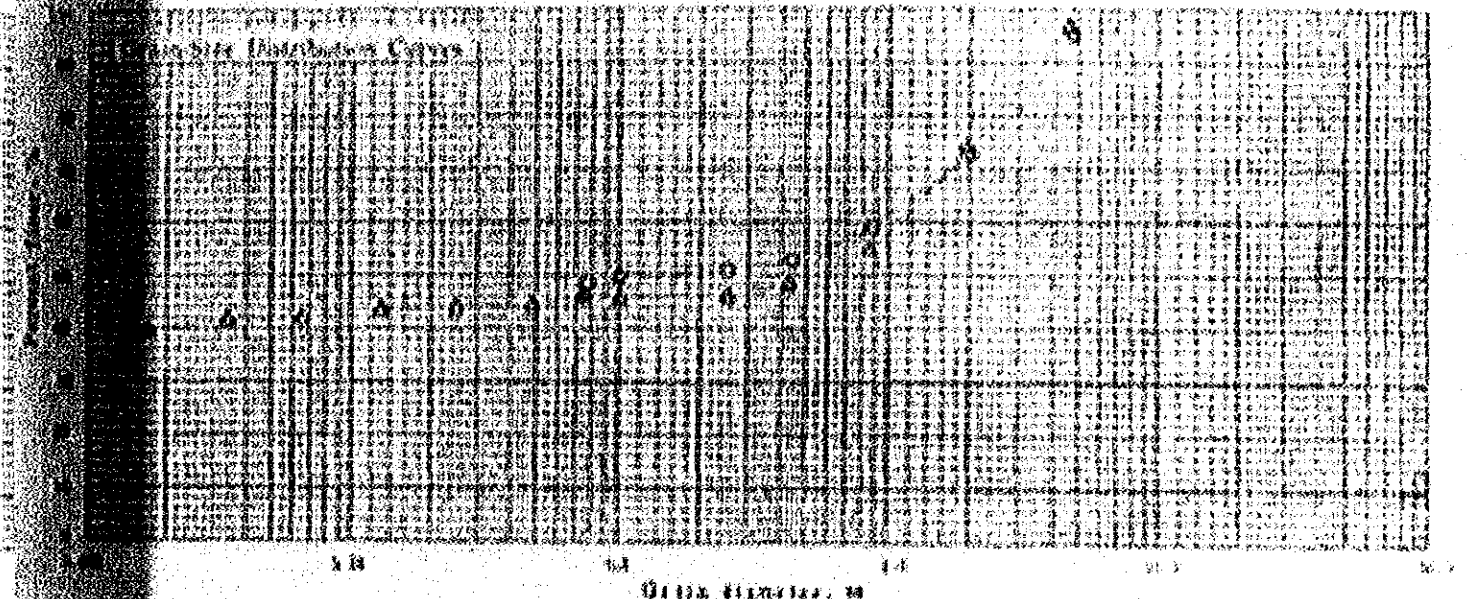
Category	Class	Size	Weight
Single No. 1	2	7	2
Single No. 2	2	7	2
Single No. 3	2	7	2
Single No. 4	2	7	2
Single No. 5	2	7	2
Single No. 6	2	7	2
Single No. 7	2	7	2
Single No. 8	2	7	2
Single No. 9	2	7	2
Single No. 10	2	7	2
Single No. 11	2	7	2
Single No. 12	2	7	2
Single No. 13	2	7	2
Single No. 14	2	7	2
Single No. 15	2	7	2
Single No. 16	2	7	2
Single No. 17	2	7	2
Single No. 18	2	7	2
Single No. 19	2	7	2
Single No. 20	2	7	2
Single No. 21	2	7	2
Single No. 22	2	7	2
Single No. 23	2	7	2
Single No. 24	2	7	2
Single No. 25	2	7	2
Single No. 26	2	7	2
Single No. 27	2	7	2
Single No. 28	2	7	2
Single No. 29	2	7	2
Single No. 30	2	7	2
Single No. 31	2	7	2
Single No. 32	2	7	2
Single No. 33	2	7	2
Single No. 34	2	7	2
Single No. 35	2	7	2
Single No. 36	2	7	2
Single No. 37	2	7	2
Single No. 38	2	7	2
Single No. 39	2	7	2
Single No. 40	2	7	2
Single No. 41	2	7	2
Single No. 42	2	7	2
Single No. 43	2	7	2
Single No. 44	2	7	2
Single No. 45	2	7	2
Single No. 46	2	7	2
Single No. 47	2	7	2
Single No. 48	2	7	2
Single No. 49	2	7	2
Single No. 50	2	7	2
Single No. 51	2	7	2
Single No. 52	2	7	2
Single No. 53	2	7	2
Single No. 54	2	7	2
Single No. 55	2	7	2
Single No. 56	2	7	2
Single No. 57	2	7	2
Single No. 58	2	7	2
Single No. 59	2	7	2
Single No. 60	2	7	2
Single No. 61	2	7	2
Single No. 62	2	7	2
Single No. 63	2	7	2
Single No. 64	2	7	2
Single No. 65	2	7	2
Single No. 66	2	7	2
Single No. 67	2	7	2
Single No. 68	2	7	2
Single No. 69	2	7	2
Single No. 70	2	7	2
Single No. 71	2	7	2
Single No. 72	2	7	2
Single No. 73	2	7	2
Single No. 74	2	7	2
Single No. 75	2	7	2
Single No. 76	2	7	2
Single No. 77	2	7	2
Single No. 78	2	7	2
Single No. 79	2	7	2
Single No. 80	2	7	2
Single No. 81	2	7	2
Single No. 82	2	7	2
Single No. 83	2	7	2
Single No. 84	2	7	2
Single No. 85	2	7	2
Single No. 86	2	7	2
Single No. 87	2	7	2
Single No. 88	2	7	2
Single No. 89	2	7	2
Single No. 90	2	7	2
Single No. 91	2	7	2
Single No. 92	2	7	2
Single No. 93	2	7	2
Single No. 94	2	7	2
Single No. 95	2	7	2
Single No. 96	2	7	2
Single No. 97	2	7	2
Single No. 98	2	7	2
Single No. 99	2	7	2
Single No. 100	2	7	2

The Natural Conditions Survey on the
Development Project of the Industrial Port.

No. 6

8. D Date of Testing

$\phi = 10.55 \sim 10$
 $\phi = 10.55 \sim 11$

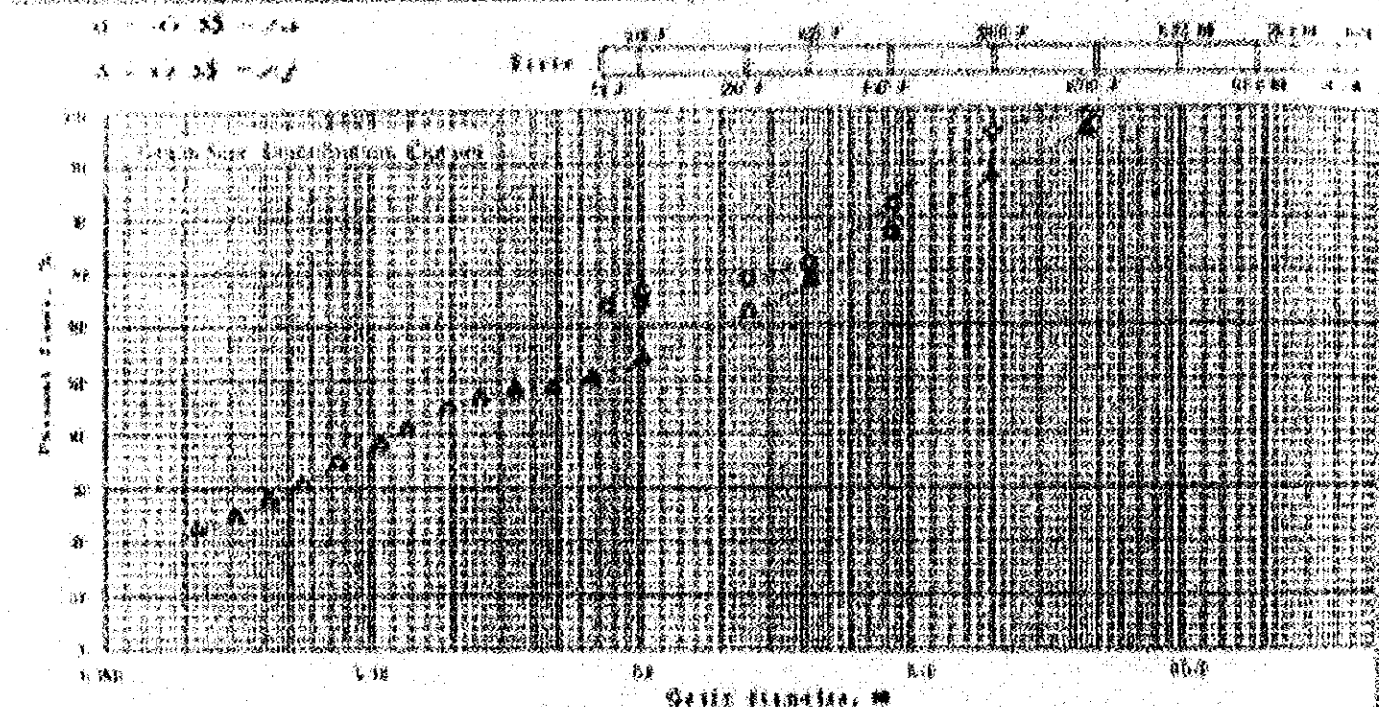
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GRAIN SIZE DISTRIBUTION The Natural Conditions Survey on the Port Development Project of the Industrial Port.

Location of Sample off shore Station No. No 6

Depth 50 Date of Testing

Sample No. Depth	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4	No. 55 - 1.4
Grain Size	200	100	60	40	20	10	5	2.5	1.25	0.625	0.3125
% Passing											
Grain Size	200	100	60	40	20	10	5	2.5	1.25	0.625	0.3125
% Passing											



Sample No. Depth	No. 55 - 1.4	No. 55 - 1.4	Sample No. Depth	No. 55 - 1.4	No. 55 - 1.4
Grain Size	200	100	Grain Size	200	100
% Passing			% Passing		
Grain Size	200	100	Grain Size	200	100
% Passing			% Passing		

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the Development Project of the Industrial Port.

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Final Review

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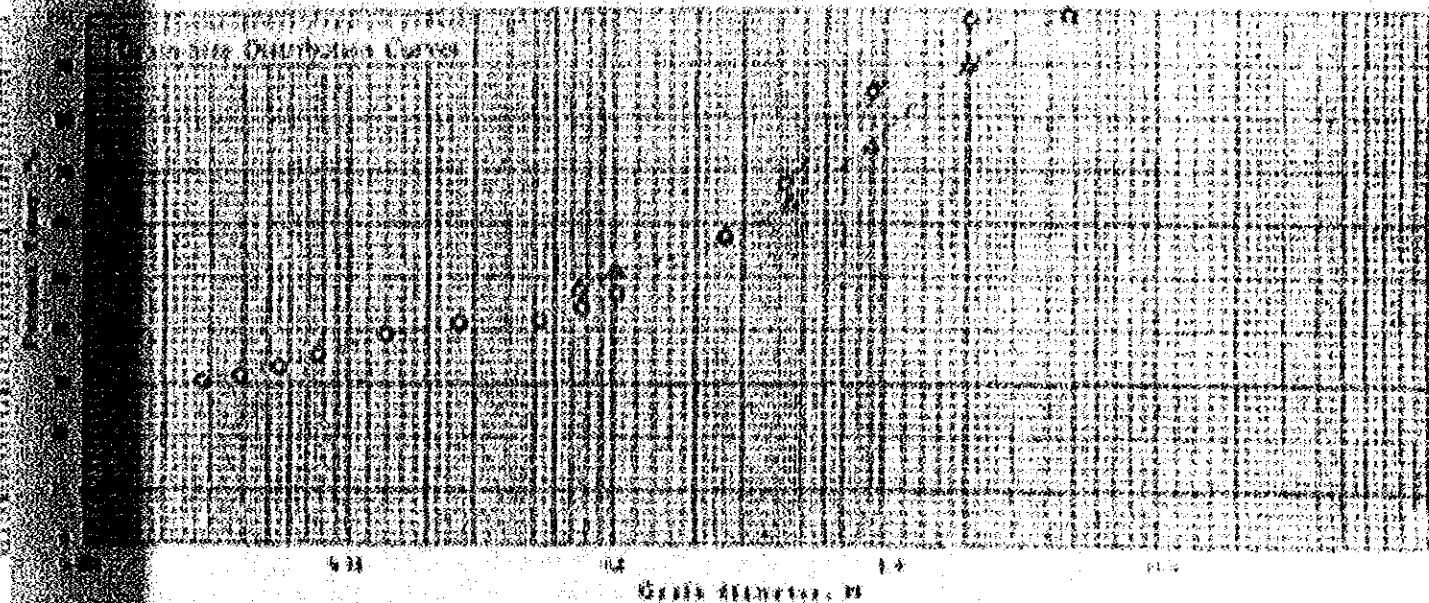
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Field No.	117	118	119	120
Sample No.	117	118	119	120
Locality	117	118	119	120
Altitude	117	118	119	120
Soil	117	118	119	120
Vegetation	117	118	119	120
Weather	117	118	119	120
Time	117	118	119	120
Remarks	117	118	119	120

The Natural Conditions Survey on the
Development Project of the Industrial Port.

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No. 6

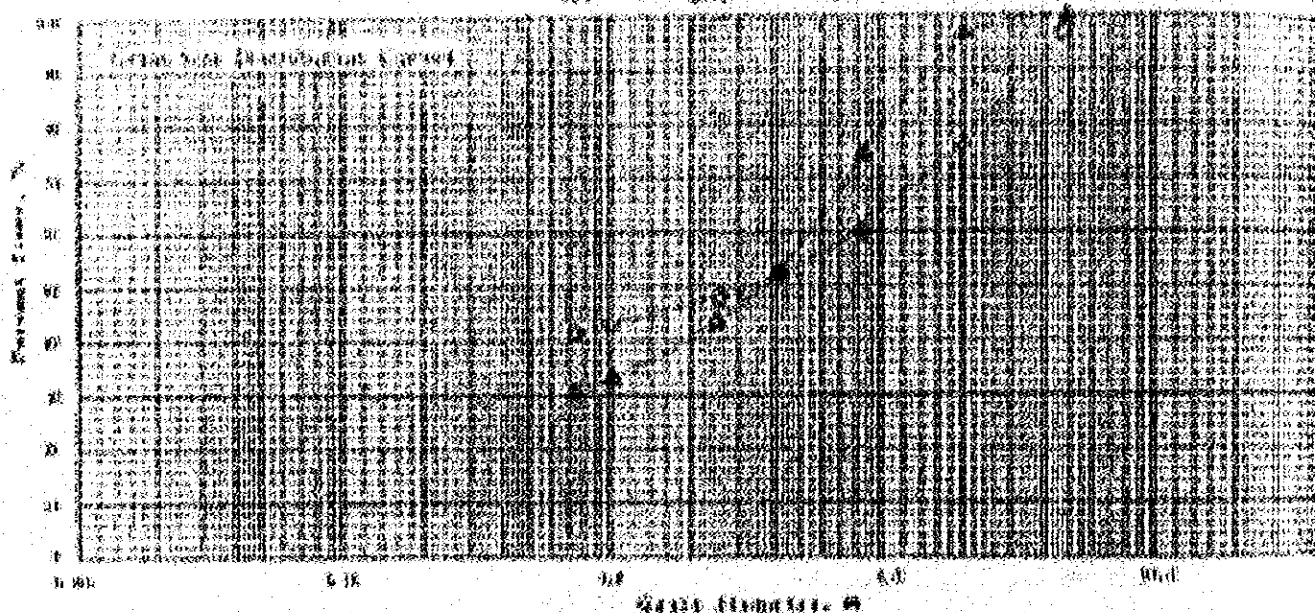
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Figure 1

[illegible]

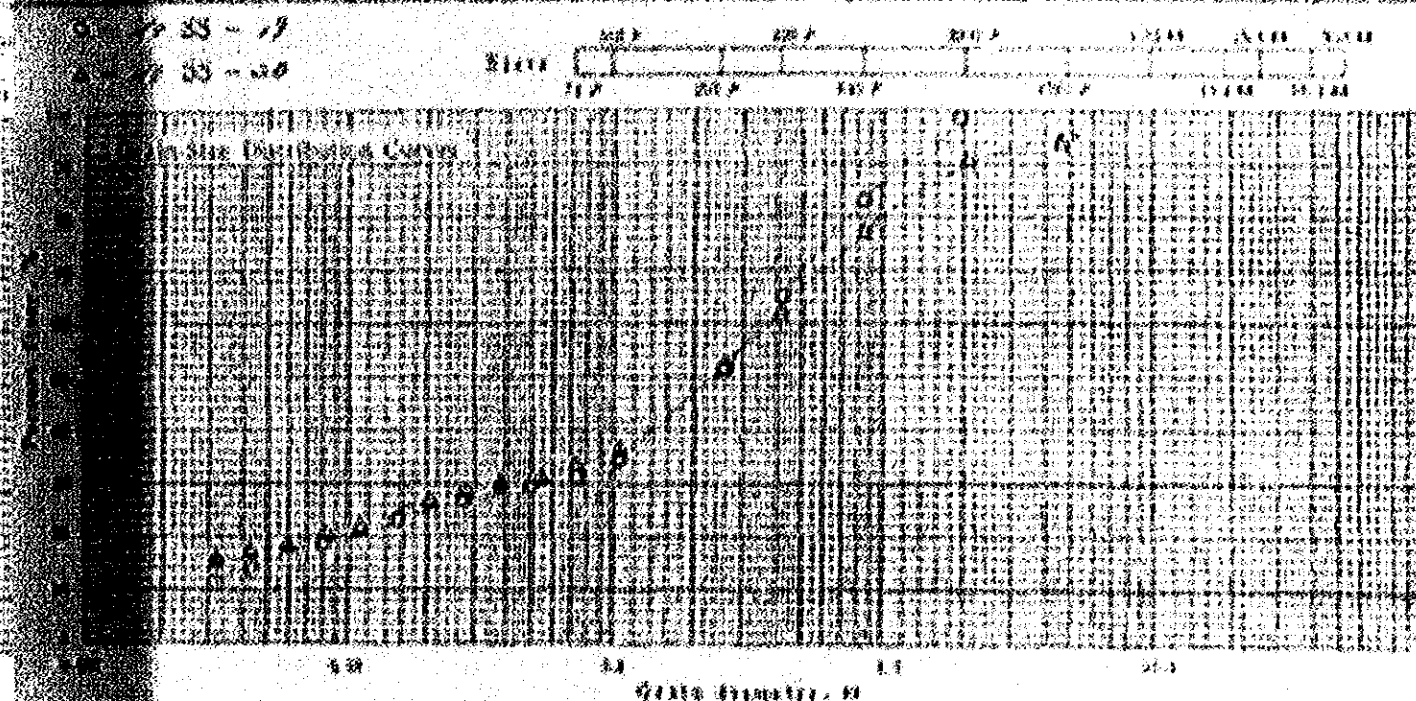
Abstract

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GRAIN SIZE DISTRIBUTION The Natural Conditions Survey on the Project Development Project of the Industrial Port

Location of Project: off shore
Sampling No.: No. 6
Project: J. D.
Date of Testing: 1977

Sample No.	Depth (m)	SS (%)	S (%)	CL (%)	OL (%)	Gravel (%)	Specific Gravity	Grain Size (mm)	Grain Size (mm)	Grain Size (mm)	Grain Size (mm)	Grain Size (mm)
1	0.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
2	1.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
3	1.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
4	2.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
5	2.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
6	3.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
7	3.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
8	4.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
9	4.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
10	5.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18



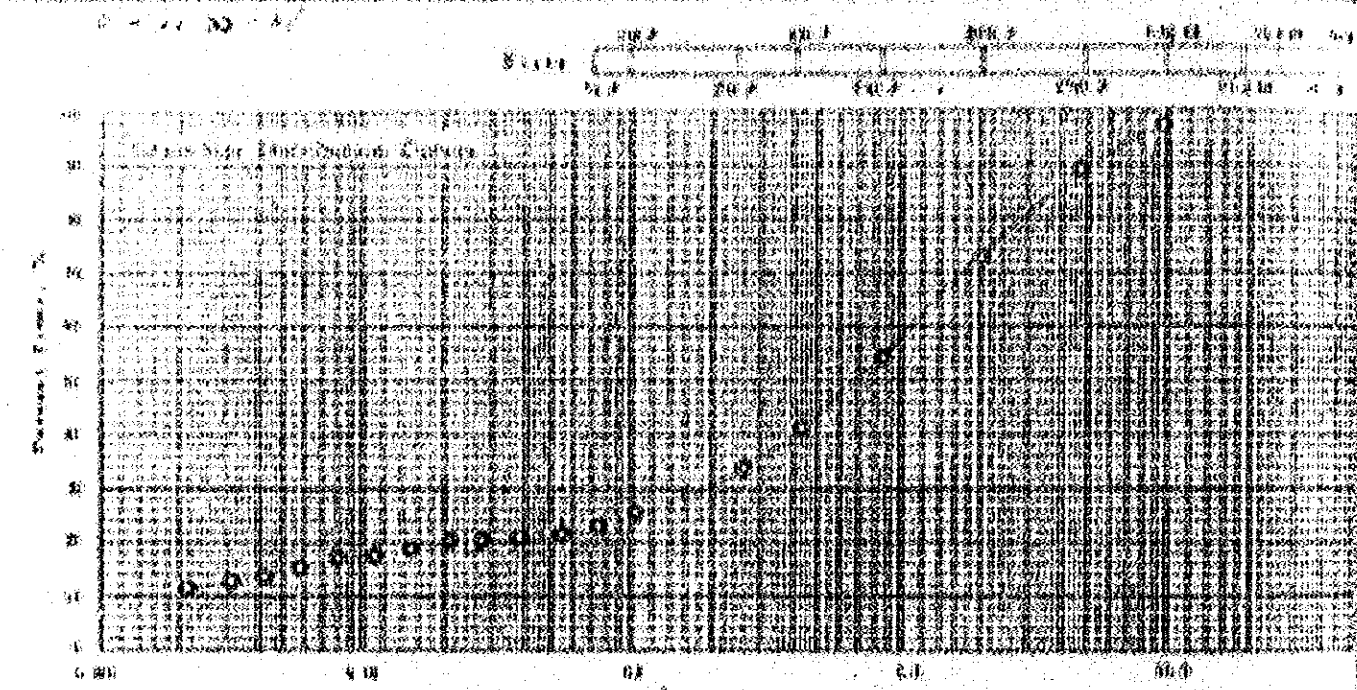
Sample No.	Depth (m)	SS (%)	S (%)	CL (%)	OL (%)	Gravel (%)	Specific Gravity	Grain Size (mm)	Grain Size (mm)	Grain Size (mm)	Grain Size (mm)	Grain Size (mm)
1	0.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
2	1.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
3	1.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
4	2.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
5	2.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
6	3.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
7	3.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
8	4.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
9	4.5	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18
10	5.0	100	100	100	100	100	2.65	0.075	0.15	0.3	0.6	1.18

SOIL SIZE DISTRIBUTION The Natural Conditions Survey on the River Development Project of the Industrial Port.

Location of Project: off shore Station No. 6

Sheet No. 30 Mass of Filling

Sample No.	Depth (m)	SS - %	SL - %	CL - %	FI - %	LL - %	PL - %	LI - %	LP - %	LP - %	LP - %	LP - %
1	0.0 - 0.5	100	0	0	0	0	0	0	0	0	0	0
2	0.5 - 1.0	100	0	0	0	0	0	0	0	0	0	0
3	1.0 - 1.5	100	0	0	0	0	0	0	0	0	0	0
4	1.5 - 2.0	100	0	0	0	0	0	0	0	0	0	0
5	2.0 - 2.5	100	0	0	0	0	0	0	0	0	0	0
6	2.5 - 3.0	100	0	0	0	0	0	0	0	0	0	0
7	3.0 - 3.5	100	0	0	0	0	0	0	0	0	0	0
8	3.5 - 4.0	100	0	0	0	0	0	0	0	0	0	0
9	4.0 - 4.5	100	0	0	0	0	0	0	0	0	0	0
10	4.5 - 5.0	100	0	0	0	0	0	0	0	0	0	0
11	5.0 - 5.5	100	0	0	0	0	0	0	0	0	0	0
12	5.5 - 6.0	100	0	0	0	0	0	0	0	0	0	0
13	6.0 - 6.5	100	0	0	0	0	0	0	0	0	0	0
14	6.5 - 7.0	100	0	0	0	0	0	0	0	0	0	0
15	7.0 - 7.5	100	0	0	0	0	0	0	0	0	0	0
16	7.5 - 8.0	100	0	0	0	0	0	0	0	0	0	0
17	8.0 - 8.5	100	0	0	0	0	0	0	0	0	0	0
18	8.5 - 9.0	100	0	0	0	0	0	0	0	0	0	0
19	9.0 - 9.5	100	0	0	0	0	0	0	0	0	0	0
20	9.5 - 10.0	100	0	0	0	0	0	0	0	0	0	0



Grain Size, mm	Grain Number, %	Grain Size, mm	Grain Number, %	Grain Size, mm	Grain Number, %
0.075	100	0.425	100	2.0	100
0.150	100	0.600	100	4.75	100
0.250	100	0.850	100	7.5	100
0.425	100	1.18	100	10.0	100

Sample No.	Depth (m)	SS - %	SL - %	CL - %	FI - %	LL - %	PL - %	LI - %	LP - %	LP - %	LP - %	LP - %
1	0.0 - 0.5	100	0	0	0	0	0	0	0	0	0	0
2	0.5 - 1.0	100	0	0	0	0	0	0	0	0	0	0
3	1.0 - 1.5	100	0	0	0	0	0	0	0	0	0	0
4	1.5 - 2.0	100	0	0	0	0	0	0	0	0	0	0
5	2.0 - 2.5	100	0	0	0	0	0	0	0	0	0	0
6	2.5 - 3.0	100	0	0	0	0	0	0	0	0	0	0
7	3.0 - 3.5	100	0	0	0	0	0	0	0	0	0	0
8	3.5 - 4.0	100	0	0	0	0	0	0	0	0	0	0
9	4.0 - 4.5	100	0	0	0	0	0	0	0	0	0	0
10	4.5 - 5.0	100	0	0	0	0	0	0	0	0	0	0
11	5.0 - 5.5	100	0	0	0	0	0	0	0	0	0	0
12	5.5 - 6.0	100	0	0	0	0	0	0	0	0	0	0
13	6.0 - 6.5	100	0	0	0	0	0	0	0	0	0	0
14	6.5 - 7.0	100	0	0	0	0	0	0	0	0	0	0
15	7.0 - 7.5	100	0	0	0	0	0	0	0	0	0	0
16	7.5 - 8.0	100	0	0	0	0	0	0	0	0	0	0
17	8.0 - 8.5	100	0	0	0	0	0	0	0	0	0	0
18	8.5 - 9.0	100	0	0	0	0	0	0	0	0	0	0
19	9.0 - 9.5	100	0	0	0	0	0	0	0	0	0	0
20	9.5 - 10.0	100	0	0	0	0	0	0	0	0	0	0

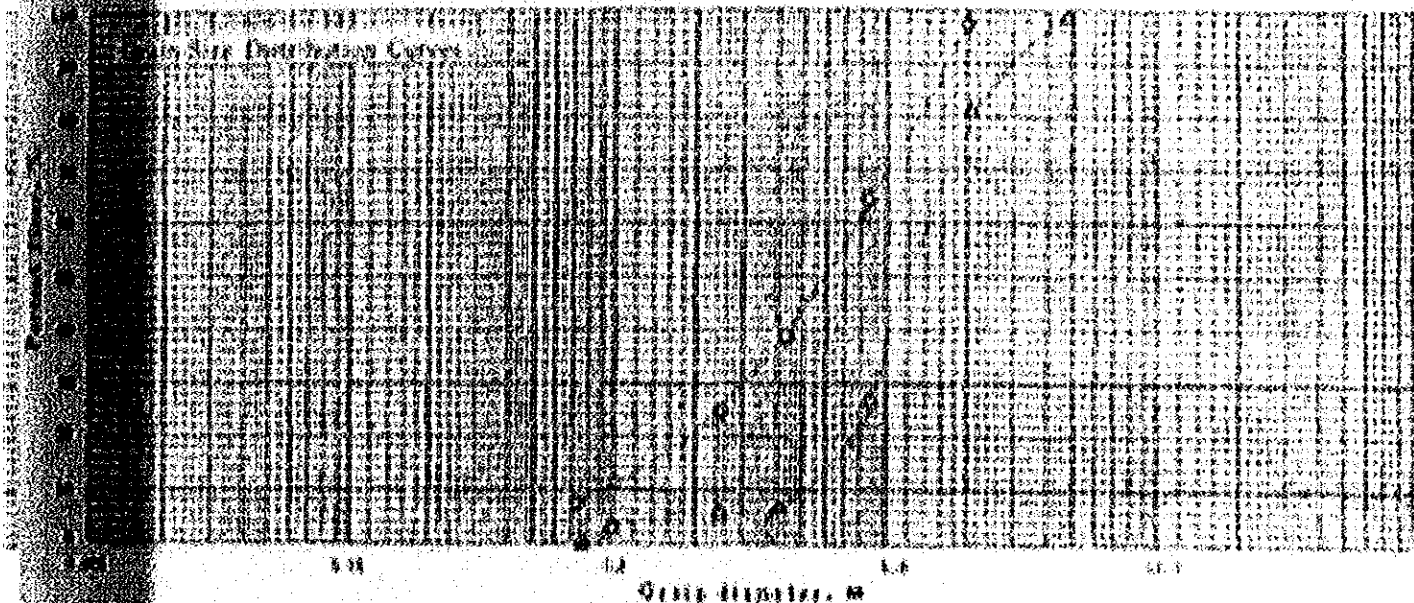
GRAIN SIZE DISTRIBUTION
The Natural Conditions Survey on the
Flood Development Project of the Industrial Port.

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	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000
1200	2400	3600	4800	6000	7200	8400	9600	10800	12000	13200
1400	2800	4200	5600	7000	8400	9800	11200	12600	14000	15400
1600	3200	4800	6400	8000	9600	11200	12800	14400	16000	17600
1800	3600	5400	7200	9000	10800	12600	14400	16200	18000	19800
2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000
2200	4400	6600	8800	11000	13200	15400	17600	19800	22000	24200
2400	4800	7200	9600	12000	14400	16800	19200	21600	24000	26400
2600	5200	7800	10400	13000	15600	18000	20400	22800	25200	27600
2800	5600	8400	11200	14000	16800	19200	21600	24000	26400	28800
3000	6000	9000	12000	15000	18000	20400	22800	25200	27600	30000
3200	6400	9600	12800	16000	19200	21600	24000	26400	28800	31200
3400	6800	10200	13600	17000	20400	22800	25200	27600	30000	32400
3600	7200	10800	14400	18000	21600	24000	26400	28800	31200	33600
3800	7600	11400	15200	19000	22800	25200	27600	30000	32400	34800
4000	8000	12000	16000	20000	24000	26400	28800	31200	33600	36000
4200	8400	12600	16800	21000	25200	27600	30000	32400	34800	37200
4400	8800	13200	17600	22000	26400	28800	31200	33600	36000	38400
4600	9200	13800	18400	23000	27600	30000	32400	34800	37200	39600
4800	9600	14400	19200	24000	28800	31200	33600	36000	38400	40800
5000	10000	15000	20000	25000	30000	32400	34800	37200	39600	42000
5200	10400	15600	20800	26000	31200	33600	36000	38400	40800	43200
5400	10800	16200	21600	27000	32400	34800	37200	39600	42000	44400
5600	11200	16800	22400	28000	33600	36000	38400	40800	43200	45600
5800	11600	17400	23200	29000	34800	37200	39600	42000	44400	46800
6000	12000	18000	24000	30000	36000	38400	40800	43200	45600	48000
6200	12400	18600	24800	31000	37200	39600	42000	44400	46800	49200
6400	12800	19200	25600	32000	38400	40800	43200	45600	48000	50400
6600	13200	19800	26400	33000	39600	42000	44400	46800	49200	51600
6800	13600	20400	27200	34000	40800	43200	45600	48000	50400	52800
7000	14000	21000	28000	35000	42000	44400	46800	49200	51600	54000
7200	14400	21600	28800	36000	43200	45600	48000	50400	52800	55200
7400	14800	22200	29600	37000	44400	46800	49200	51600	54000	56400
7600	15200	22800	30400	38000	45600	48000	50400	52800	55200	57600
7800	15600	23400	31200	39000	46800					



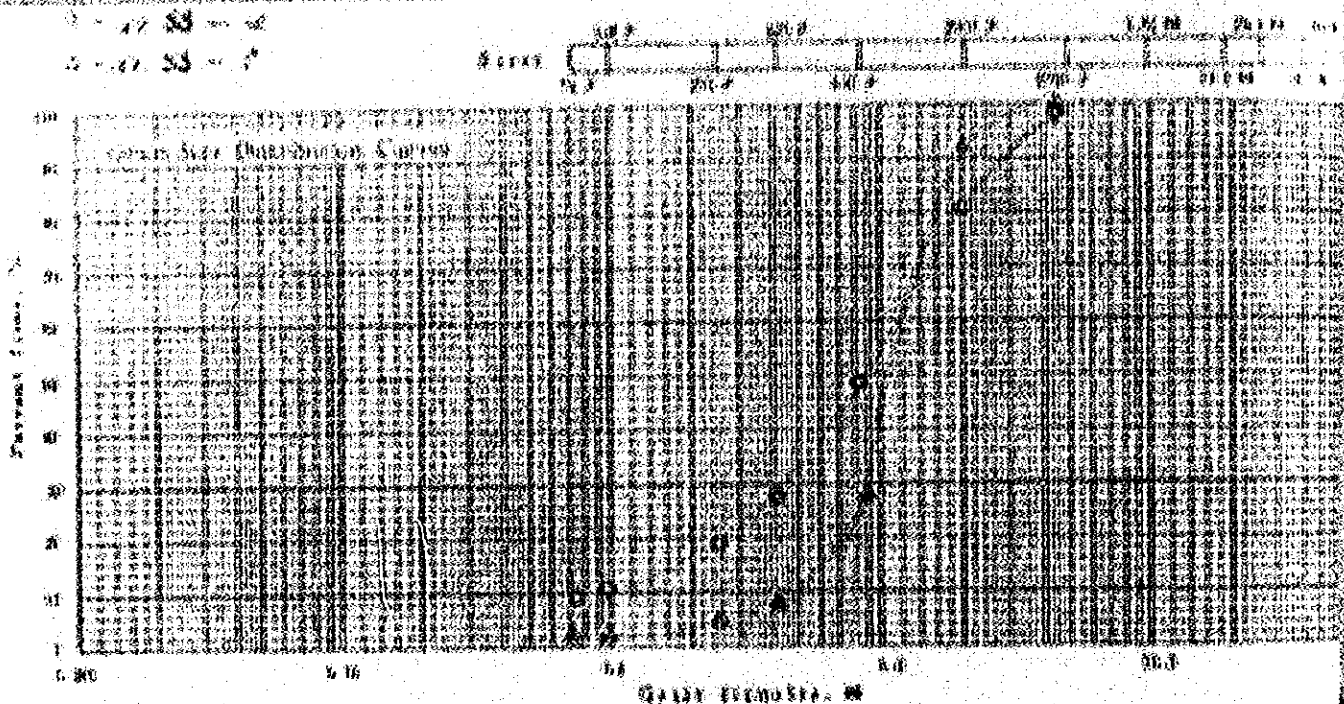
Sample No.	Depth	Mo. 88 - 6	Mo. 88 - 7	Sample No.	Depth	Mo. 88 - 1	Mo. 88 - 2
11111	11111	2.2	2.2	11111	11111	2.2	2.2
11112	11112	2.2	2.2	11112	11112	2.2	2.2
11113	11113	2.2	2.2	11113	11113	2.2	2.2
11114	11114	2.2	2.2	11114	11114	2.2	2.2
11115	11115	2.2	2.2	11115	11115	2.2	2.2
11116	11116	2.2	2.2	11116	11116	2.2	2.2
11117	11117	2.2	2.2	11117	11117	2.2	2.2
11118	11118	2.2	2.2	11118	11118	2.2	2.2
11119	11119	2.2	2.2	11119	11119	2.2	2.2
11120	11120	2.2	2.2	11120	11120	2.2	2.2
11121	11121	2.2	2.2	11121	11121	2.2	2.2
11122	11122	2.2	2.2	11122	11122	2.2	2.2
11123	11123	2.2	2.2	11123	11123	2.2	2.2
11124	11124	2.2	2.2	11124	11124	2.2	2.2
11125	11125	2.2	2.2	11125	11125	2.2	2.2
11126	11126	2.2	2.2	11126	11126	2.2	2.2
11127	11127	2.2	2.2	11127	11127	2.2	2.2
11128	11128	2.2	2.2	11128	11128	2.2	2.2
11129	11129	2.2	2.2	11129	11129	2.2	2.2
11130	11130	2.2	2.2	11130	11130	2.2	2.2
11131	11131	2.2	2.2	11131	11131	2.2	2.2
11132	11132	2.2	2.2	11132	11132	2.2	2.2
11133	11133	2.2	2.2	11133	11133	2.2	2.2
11134	11134	2.2	2.2	11134	11134	2.2	2.2
11135	11135	2.2	2.2	11135	11135	2.2	2.2
11136	11136	2.2	2.2	11136	11136	2.2	2.2
11137	11137	2.2	2.2	11137	11137	2.2	2.2
11138	11138	2.2	2.2	11138	11138	2.2	2.2
11139	11139	2.2	2.2	11139	11139	2.2	2.2
11140	11140	2.2	2.2	11140	11140	2.2	2.2
11141	11141	2.2	2.2	11141	11141	2.2	2.2
11142	11142	2.2	2.2	11142	11142	2.2	2.2
11143	11143	2.2	2.2	11143	11143	2.2	2.2
11144	11144	2.2	2.2	11144	11144	2.2	2.2
11145	11145	2.2	2.2	11145	11145	2.2	2.2
11146	11146	2.2	2.2	11146	11146	2.2	2.2
11147	11147	2.2	2.2	11147	11147	2.2	2.2
11148	11148	2.2	2.2	11148	11148	2.2	2.2
11149	11149	2.2	2.2	11149	11149	2.2	2.2
11150	11150	2.2	2.2	11150	11150	2.2	2.2
11151	11151	2.2	2.2	11151	11151	2.2	2.2
11152	11152	2.2	2.2	11152	11152	2.2	2.2
11153	11153	2.2	2.2	11153	11153	2.2	2.2
11154	11154	2.2	2.2	11154	11154	2.2	2.2
11155	11155	2.2	2.2	11155	11155	2.2	2.2
11156	11156	2.2	2.2	11156	11156	2.2	2.2
11157	11157	2.2	2.2	11157	11157	2.2	2.2
11158	11158	2.2	2.2	11158	11158	2.2	2.2
11159	11159	2.2	2.2	11159	11159	2.2	2.2
11160	11160	2.2	2.2	11160	11160	2.2	2.2
11161	11161	2.2	2.2	11161	11161	2.2	2.2
11162	11162	2.2	2.2	11162	11162	2.2	2.2
11163	11163	2.2	2.2	11163	11163	2.2	2.2
11164	11164	2.2	2.2	11164	11164	2.2	2.2
11165	11165	2.2	2.2	11165	11165	2.2	2.2
11166	11166	2.2	2.2	11166	11166	2.2	2.2
11167	11167	2.2	2.2	11167	11167	2.2	2.2
11168	11168	2.2	2.2	11168	11168	2.2	2.2
11169	11169	2.2	2.2	11169	11169	2.2	2.2
11170	11170	2.2	2.2	11170	11170	2.2	2.2
11171	11171	2.2	2.2	11171	11171	2.2	2.2
11172	11172	2.2	2.2	11172	11172	2.2	2.2
11173	11173	2.2	2.2	11173	11173	2.2	2.2
11174	11174	2.2	2.2	11174	11174	2.2	2.2
11175	11175	2.2	2.2	11175	11175	2.2	2.2
11176	11176	2.2	2.2	11176	11176	2.2	2.2
11177	11177	2.2	2.2	11177	11177	2.2	2.2
11178	11178	2.2	2.2	11178	11178	2.2	2.2
11179	11179	2.2	2.2	11179	11179	2.2	2.2
11180	11180	2.2	2.2	11180	11180	2.2	2.2
11181	11181	2.2	2.2	11181	11181	2.2	2.2
11182	11182	2.2	2.2	11182	11182	2.2	2.2
11183	11183	2.2	2.2	11183	11183	2.2	2.2
11184	11184	2.2	2.2	11184	11184	2.2	2.2
11185	11185	2.2	2.2	11185	11185	2.2	2.2
11186	11186	2.2	2.2	11186	11186	2.2	2.2
11187	11187	2.2	2.2	11187	11187	2.2	2.2
11188	11188	2.2	2.2	11188	11188	2.2	2.2
11189	11189	2.2	2.2	11189	11189	2.2	2.2
11190	11190	2.2	2.2	11190	11190	2.2	2.2
11191	11191	2.2	2.2	11191	11191	2.2	2.2
11192	11192	2.2	2.2	11192	11192	2.2	2.2
11193	11193	2.2	2.2	11193	11193	2.2	2.2
11194	11194	2.2	2.2	11194	11194	2.2	2.2
11195	11195	2.2	2.2	11195	11195	2.2	2.2
11196	11196	2.2	2.2	11196	11196	2.2	2.2
11197	11197	2.2	2.2	11197	11197	2.2	2.2
11198	11198	2.2	2.2	11198	11198	2.2	2.2
11199	11199	2.2	2.2	11199	11199	2.2	2.2
11200	11200	2.2	2.2	11200	11200	2.2	2.2

GRAPHIC SIZE DISTRIBUTION
The Natural Conditions Survey on the
Development Project of the Industrial Port.

off there

Form 1041-10 (Rev. 1-78) Date of Filing

Sample No. 10001 (No. 55 - 2)		m)		m)		m)		m)		m)		m)	
Item	Unit	100	101	102	103	104	105	106	107	108	109	110	111
% Protein		22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2
% Fat		1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
% Moisture		88.8	88.9	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.8	89.9



Column	Col 1	Col 2	Col 3	Col 4	Col 5
Sample No. Depth	10	20	30	40	50
Larger than 1/2mm	2.2	2.1	2.1	2.1	2.1
1/2 - 1mm	2.2	2.1	2.1	2.1	2.1
1 - 2mm	2.2	2.1	2.1	2.1	2.1
2 - 5mm	2.2	2.1	2.1	2.1	2.1
5 - 10mm	2.2	2.1	2.1	2.1	2.1
10 - 20mm	2.2	2.1	2.1	2.1	2.1
20 - 50mm	2.2	2.1	2.1	2.1	2.1
50 - 100mm	2.2	2.1	2.1	2.1	2.1
100 - 200mm	2.2	2.1	2.1	2.1	2.1
200 - 500mm	2.2	2.1	2.1	2.1	2.1
500 - 1000mm	2.2	2.1	2.1	2.1	2.1
1000 - 2000mm	2.2	2.1	2.1	2.1	2.1
2000 - 5000mm	2.2	2.1	2.1	2.1	2.1
5000 - 10000mm	2.2	2.1	2.1	2.1	2.1
10000 - 20000mm	2.2	2.1	2.1	2.1	2.1
20000 - 50000mm	2.2	2.1	2.1	2.1	2.1
50000 - 100000mm	2.2	2.1	2.1	2.1	2.1
100000 - 200000mm	2.2	2.1	2.1	2.1	2.1
200000 - 500000mm	2.2	2.1	2.1	2.1	2.1
500000 - 1000000mm	2.2	2.1	2.1	2.1	2.1
1000000 - 2000000mm	2.2	2.1	2.1	2.1	2.1
2000000 - 5000000mm	2.2	2.1	2.1	2.1	2.1
5000000 - 10000000mm	2.2	2.1	2.1	2.1	2.1
10000000 - 20000000mm	2.2	2.1	2.1	2.1	2.1
20000000 - 50000000mm	2.2	2.1	2.1	2.1	2.1
50000000 - 100000000mm	2.2	2.1	2.1	2.1	2.1
100000000 - 200000000mm	2.2	2.1	2.1	2.1	2.1
200000000 - 500000000mm	2.2	2.1	2.1	2.1	2.1
500000000 - 1000000000mm	2.2	2.1	2.1	2.1	2.1
1000000000 - 2000000000mm	2.2	2.1	2.1	2.1	2.1
2000000000 - 5000000000mm	2.2	2.1	2.1	2.1	2.1
5000000000 - 10000000000mm	2.2	2.1	2.1	2.1	2.1
10000000000 - 20000000000mm	2.2	2.1	2.1	2.1	2.1
20000000000 - 50000000000mm	2.2	2.1	2.1	2.1	2.1
50000000000 - 100000000000mm	2.2	2.1	2.1	2.1	2.1
100000000000 - 200000000000mm	2.2	2.1	2.1	2.1	2.1
200000000000 - 500000000000mm	2.2	2.1	2.1	2.1	2.1
500000000000 - 1000000000000mm	2.2	2.1	2.1	2.1	2.1
1000000000000 - 2000000000000mm	2.2	2.1	2.1	2.1	2.1
2000000000000 - 5000000000000mm	2.2	2.1	2.1	2.1	2.1
5000000000000 - 10000000000000mm	2.2	2.1	2.1	2.1	2.1
10000000000000 - 20000000000000mm	2.2	2.1	2.1	2.1	2.1
20000000000000 - 50000000000000mm	2.2	2.1	2.1	2.1	2.1
50000000000000 - 100000000000000mm	2.2	2.1	2.1	2.1	2.1
100000000000000 - 200000000000000mm	2.2	2.1	2.1	2.1	2.1
200000000000000 - 500000000000000mm	2.2	2.1	2.1	2.1	2.1
500000000000000 - 1000000000000000mm	2.2	2.1	2.1	2.1	2.1
1000000000000000 - 2000000000000000mm	2.2	2.1	2.1	2.1	2.1
2000000000000000 - 5000000000000000mm	2.2	2.1	2.1	2.1	2.1
5000000000000000 - 10000000000000000mm	2.2	2.1	2.1	2.1	2.1
10000000000000000 - 20000000000000000mm	2.2	2.1	2.1		

GRAIN SIZE DISTRIBUTION

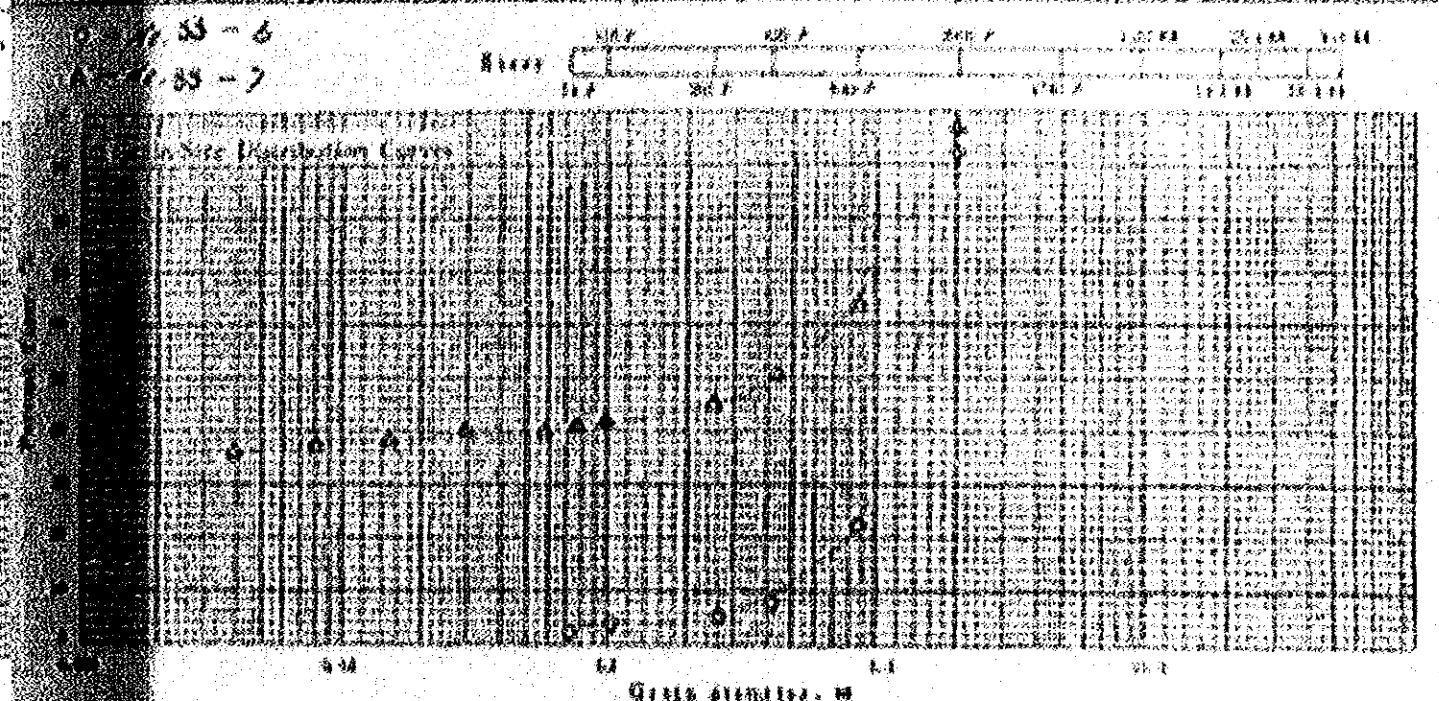
The Natural Conditions Survey on the
Project Development Project of the Industrial Port.

Location of Project off shore During the

No. 7

Project No. 88-6 Date of Testing

Grain Size	500	380	250	150	75	37.5	19	9.5	4.75	2.36	1.18	0.60	0.30	0.15	0.075
Weight %	100	98.5	95.5	88.5	78.5	68.5	58.5	48.5	38.5	28.5	18.5	8.5	3.5	1.5	0.5
Grain Size	500	380	250	150	75	37.5	19	9.5	4.75	2.36	1.18	0.60	0.30	0.15	0.075
Weight %	100	98.5	95.5	88.5	78.5	68.5	58.5	48.5	38.5	28.5	18.5	8.5	3.5	1.5	0.5



Grain Size	500	380	250	150	75	37.5	19	9.5	4.75	2.36	1.18	0.60	0.30	0.15	0.075
Weight %	100	98.5	95.5	88.5	78.5	68.5	58.5	48.5	38.5	28.5	18.5	8.5	3.5	1.5	0.5
Grain Size	500	380	250	150	75	37.5	19	9.5	4.75	2.36	1.18	0.60	0.30	0.15	0.075
Weight %	100	98.5	95.5	88.5	78.5	68.5	58.5	48.5	38.5	28.5	18.5	8.5	3.5	1.5	0.5

GRAVEL SIZE DISTRIBUTION

The Natural Conditions Survey on the
Development Project of the Industrial Port.

Location of Project

off shore

Station No.

No. 7

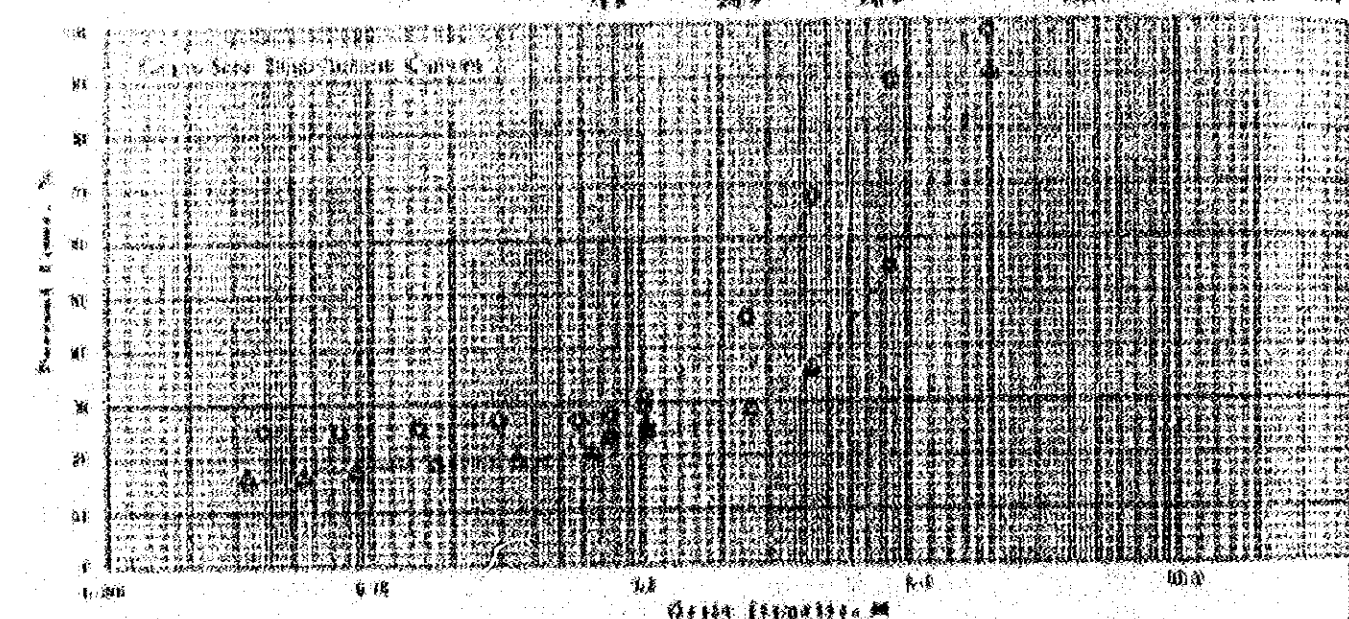
Figure No.

8 D

Date of Survey

Sample No. & Depth	No. 88 - 7	No. 89 - 7	No. 90 - 7	No. 91 - 7	No. 92 - 7	No. 93 - 7	No. 94 - 7	No. 95 - 7	No. 96 - 7	No. 97 - 7	No. 98 - 7	No. 99 - 7	No. 100 - 7
Grain. M	100	100	100	100	100	100	100	100	100	100	100	100	100
% Passing	100	100	100	100	100	100	100	100	100	100	100	100	100
Grain. M	100	100	100	100	100	100	100	100	100	100	100	100	100
% Passing	100	100	100	100	100	100	100	100	100	100	100	100	100

Sample No. & Depth	No. 88 - 7	No. 89 - 7	No. 90 - 7	No. 91 - 7	No. 92 - 7	No. 93 - 7	No. 94 - 7	No. 95 - 7	No. 96 - 7	No. 97 - 7	No. 98 - 7	No. 99 - 7	No. 100 - 7
Grain. M	100	100	100	100	100	100	100	100	100	100	100	100	100
% Passing	100	100	100	100	100	100	100	100	100	100	100	100	100



Grain Size, M	0.075	0.15	0.3	0.6	1.18	2.0	3.35	5.0	7.5	10.0
% Passing										

Sample No. & Depth	No. 88 - 7	No. 89 - 7	Sample No. & Depth	No. 88 - 7	No. 89 - 7
Larger than 4.75mm	100	100	Larger than 4.75mm	100	100
4.75 - 7.5mm	100	100	4.75 - 7.5mm	100	100
7.5 - 12.5mm	100	100	7.5 - 12.5mm	100	100
12.5 - 20mm	100	100	12.5 - 20mm	100	100
20 - 30mm	100	100	20 - 30mm	100	100
30 - 47.5mm	100	100	30 - 47.5mm	100	100
47.5 - 75mm	100	100	47.5 - 75mm	100	100
75 - 100mm	100	100	75 - 100mm	100	100
100 - 150mm	100	100	100 - 150mm	100	100
150 - 200mm	100	100	150 - 200mm	100	100
200 - 250mm	100	100	200 - 250mm	100	100
250 - 300mm	100	100	250 - 300mm	100	100
300 - 350mm	100	100	300 - 350mm	100	100
350 - 400mm	100	100	350 - 400mm	100	100
400 - 450mm	100	100	400 - 450mm	100	100
450 - 500mm	100	100	450 - 500mm	100	100
500 - 550mm	100	100	500 - 550mm	100	100
550 - 600mm	100	100	550 - 600mm	100	100
600 - 650mm	100	100	600 - 650mm	100	100
650 - 700mm	100	100	650 - 700mm	100	100
700 - 750mm	100	100	700 - 750mm	100	100
750 - 800mm	100	100	750 - 800mm	100	100
800 - 850mm	100	100	800 - 850mm	100	100
850 - 900mm	100	100	850 - 900mm	100	100
900 - 950mm	100	100	900 - 950mm	100	100
950 - 1000mm	100	100	950 - 1000mm	100	100

GRAIN SIZE DISTRIBUTION The Natural Conditions Survey on the Project Development Project of the Industrial Port.

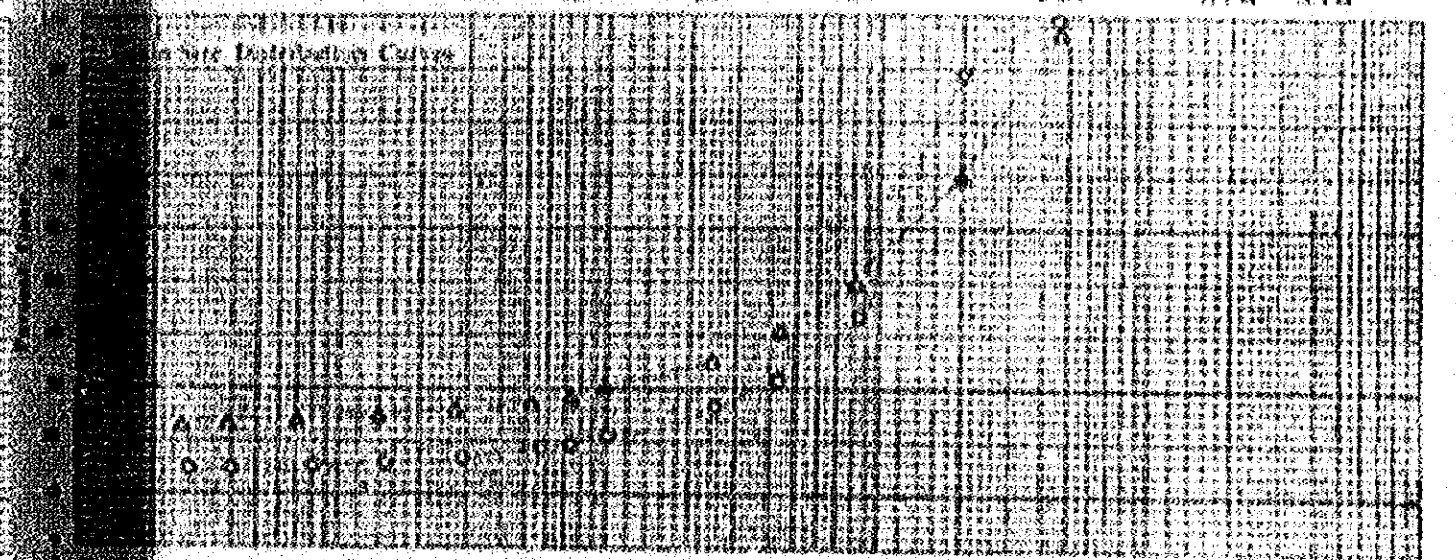
Location of Project: off shore Boring No.

No. 7

Tested by: S. D. Date of Testing:

Sample No. Depth: No. SS - 10												
Grain Size	4.75	7.5	12.5	20	30	42.5	60	75	106	150	212	250
Percent	100	100	100	100	100	100	100	100	100	100	100	100
Sample	100	100	100	100	100	100	100	100	100	100	100	100
Grain Size	4.75	7.5	12.5	20	30	42.5	60	75	106	150	212	250
Percent	100	100	100	100	100	100	100	100	100	100	100	100
Sample	100	100	100	100	100	100	100	100	100	100	100	100

Sample No. Depth: No. SS - 11												
Grain Size	4.75	7.5	12.5	20	30	42.5	60	75	106	150	212	250
Percent	100	100	100	100	100	100	100	100	100	100	100	100
Sample	100	100	100	100	100	100	100	100	100	100	100	100
Grain Size	4.75	7.5	12.5	20	30	42.5	60	75	106	150	212	250
Percent	100	100	100	100	100	100	100	100	100	100	100	100
Sample	100	100	100	100	100	100	100	100	100	100	100	100



Grain Size	4.75	7.5	12.5	20	30	42.5	60	75	106	150	212	250
Percent	100	100	100	100	100	100	100	100	100	100	100	100

Sample No.	Depth	No. SS	Grain Size	Percent	Sample No.	Depth	No. SS	Grain Size	Percent
100	100	100	4.75	100	100	100	100	4.75	100
100	100	100	7.5	100	100	100	100	7.5	100
100	100	100	12.5	100	100	100	100	12.5	100
100	100	100	20	100	100	100	100	20	100
100	100	100	30	100	100	100	100	30	100
100	100	100	42.5	100	100	100	100	42.5	100
100	100	100	60	100	100	100	100	60	100
100	100	100	75	100	100	100	100	75	100
100	100	100	106	100	100	100	100	106	100
100	100	100	150	100	100	100	100	150	100
100	100	100	212	100	100	100	100	212	100
100	100	100	250	100	100	100	100	250	100

SOILS AND SUBSTRATA

The Natural Conditions Survey on the Development Project of the Industrial Port.

Location of Project

off shore

Survey No.

No 7

Surveyed by

S. D.

Date of Survey

Sample No. 1 Depth 1 m. SS = 1/2

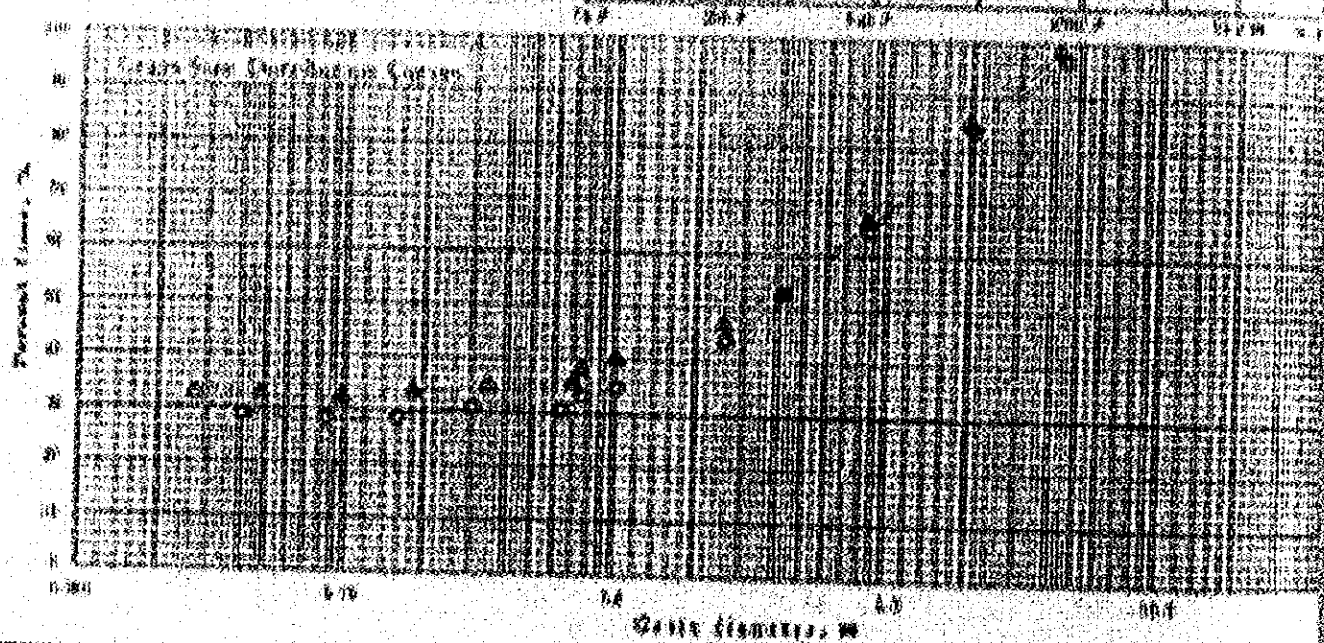
Depth, m	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
% Fines											
% Coarse											
% Fines											

Sample No. 2 Depth 2 m. SS = 1/2

Depth, m	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
% Fines											
% Coarse											
% Fines											

Q = 17.55 = 1/2

Q = 17.55 = 1/2



Sample No. 1 Depth	No. 1	No. 2	No. 3	No. 4	No. 5
1.0 m					
1.5 m					
2.0 m					
2.5 m					
3.0 m					
3.5 m					
4.0 m					
4.5 m					
5.0 m					
5.5 m					
6.0 m					
6.5 m					
7.0 m					
7.5 m					
8.0 m					
8.5 m					
9.0 m					
9.5 m					
10.0 m					

THE NATURAL CONDITIONS SURVEY ON THE DEVELOPMENT PROJECT OF THE INDUSTRIAL PORT

off shore

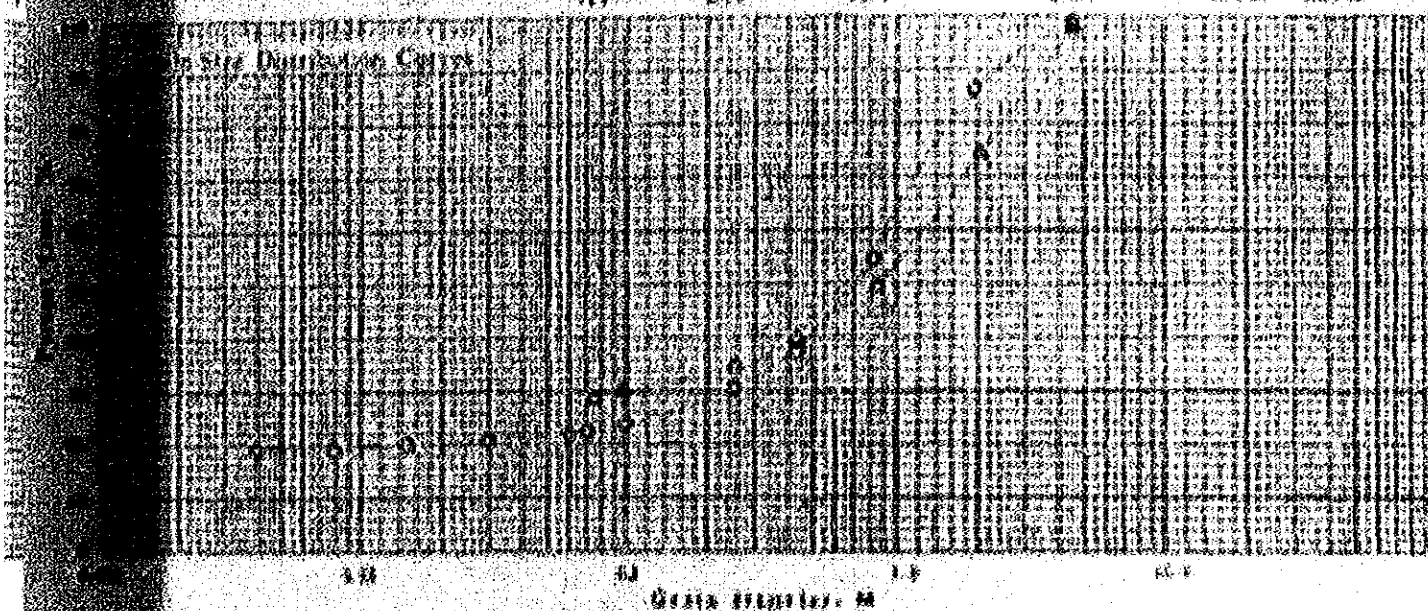
Page 12 B.D Date of Training

No. 7

[illegible]

0-15 = 76
0-15 = 76

	1987	1988	1989	1990	1991	1992
Sum	11	11	11	11	11	11
(1P)	11	11	11	11	11	11

[illegible]

225

off shore

● 注意

No 7

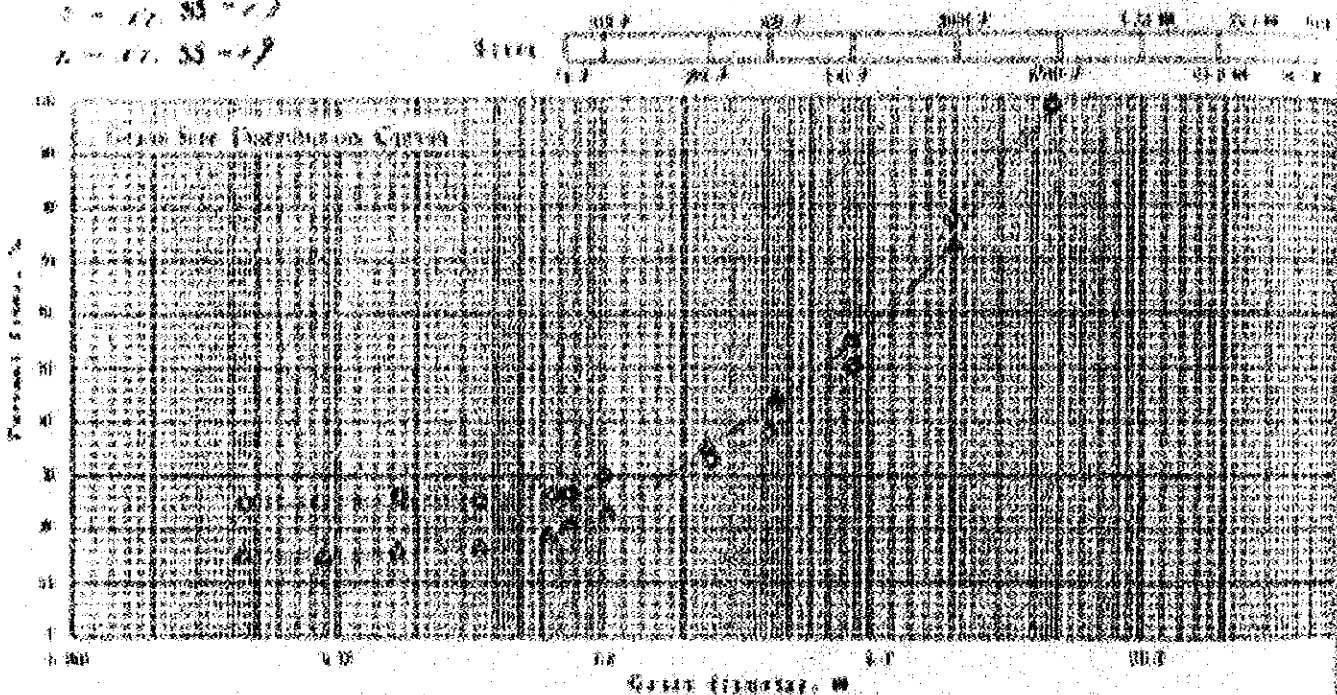
● ● ● ● ● ● ● ●

Figure 1

[illegible]

10-11-2011

10-17-59

[illegible]

GRAIN SIZE DISTRIBUTION

The Natural Conditions Survey on the

Development Project of the Industrial Port,

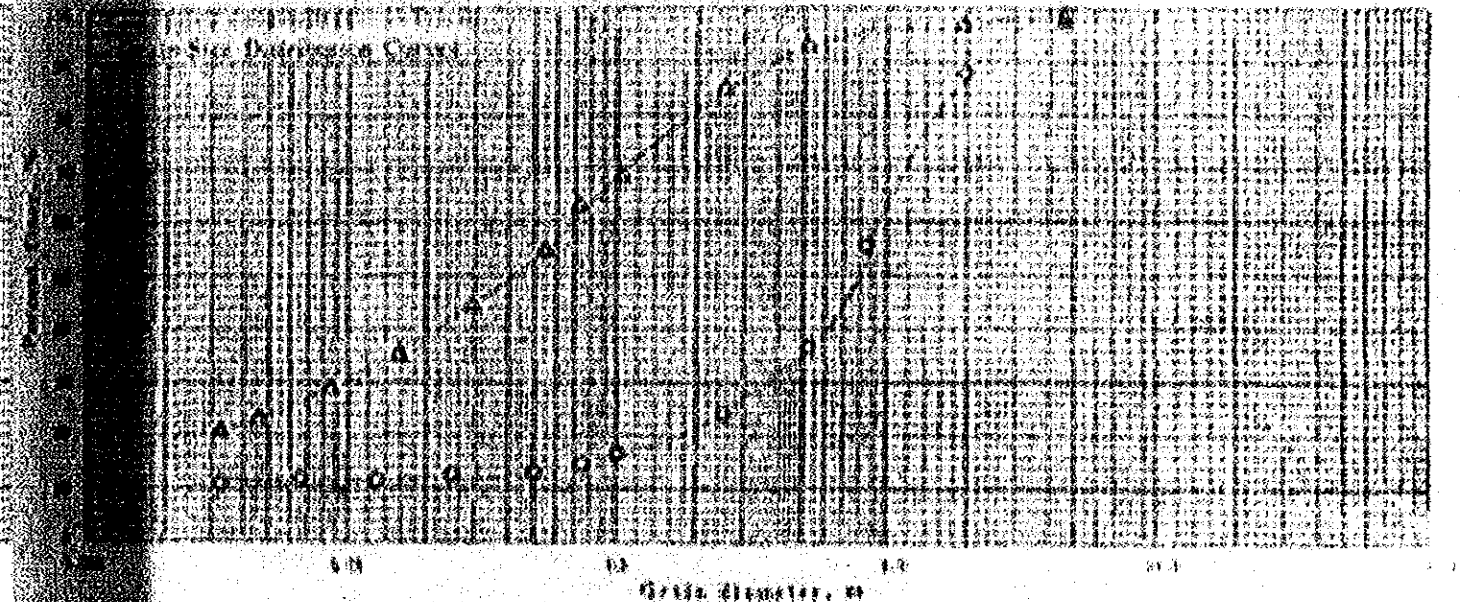
Location of Product off shore

Sampling No. **B. D.** Date of Testing

No. **7**

Depth: 1 m	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20
100	101	111	121	131	141	151	161	171	181	191	201	211
200	201	211	221	231	241	251	261	271	281	291	301	311
300	301	311	321	331	341	351	361	371	381	391	401	411
400	401	411	421	431	441	451	461	471	481	491	501	511
500	501	511	521	531	541	551	561	571	581	591	601	611
600	601	611	621	631	641	651	661	671	681	691	701	711
700	701	711	721	731	741	751	761	771	781	791	801	811
800	801	811	821	831	841	851	861	871	881	891	901	911
900	901	911	921	931	941	951	961	971	981	991	1001	1011

Depth: 1 m	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20	SS - 20
100	101	111	121	131	141	151	161	171	181	191	201	211
200	201	211	221	231	241	251	261	271	281	291	301	311
300	301	311	321	331	341	351	361	371	381	391	401	411
400	401	411	421	431	441	451	461	471	481	491	501	511
500	501	511	521	531	541	551	561	571	581	591	601	611
600	601	611	621	631	641	651	661	671	681	691	701	711
700	701	711	721	731	741	751	761	771	781	791	801	811
800	801	811	821	831	841	851	861	871	881	891	901	911
900	901	911	921	931	941	951	961	971	981	991	1001	1011



Sample No.	SS - 20	SS - 20	Sample No.	SS - 20	SS - 20
100	101	111	100	101	111
200	201	211	200	201	211
300	301	311	300	301	311
400	401	411	400	401	411
500	501	511	500	501	511
600	601	611	600	601	611
700	701	711	700	701	711
800	801	811	800	801	811
900	901	911	900	901	911
1000	1001	1011	1000	1001	1011

N 7

蘇美亞主修 蘇美亞主修

THE UNIVERSITY OF CHICAGO

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2



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