Site: NEW BED
Break:
Other: 5.055

SUPERFUND SITE, NEW BEDFORD HARBOR, MASSACHUSETTS

CHEMICAL AND PHYSICAL ANALYSIS OF SEDIMENTS FROM HOT SPOT AREA

NOVEMBER 1987

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DIVISION

SDMS DocID 51955

SAMPLE IDENTIFICATION AND LOCATION

HOT SPOT SEDIMENT SAMPLES

SAMPLE NO.	GRID	LOCATION	
1657 1658	12B/GB	N244,979.94	E758,716.24
1659 1660	12A/HA	N245,111.37	E758,851.01
1661 1662	13A/HA	N244,861.29	E758,841.83
1663 1664	13B/HA	N244,708.75	E758,857.09
1665 1666	13A/HB	N244,860.41	E758,971.92
1667 1668	12B/HB	N244.998.83	E758,977.64
1669 1670	12A/HB	N245,113.61	E758,977.27
1671 1672	11B/HB	N245,220.02	E758,992.36
1673 1674	11A/HB	N245,382.08	E759,012.19
1675 1676	11A/IA	N245,365.84	E759,122.82
1677 1678	11A/IB	N245,362.13	E759,212.35
1679 1680	11B/IB	N245,211.66	E759,236.40
1681 1682	10A/IA	N245,596.71	E759,108.93
1683 1684	10A/IB	N245,614.39	E759,248.53
1685 1686	10B/IB	N245,459.82	E759,206.25
1687 1688	12B/IA	N244,976.53	E759,114.71
1689 1690	11B/IA#1	N245,213.88	E759,108.86

SAMPLE NO.	GRID	LOCATION	
1691 1692	11B/IA#2	N245,235.58	E759,090.72
1693 1694	11B/IA#3	N245,254.95	E759,113.68
1695 1696	11B/IA#4	N245,233.58	E759,131.61
1697 1698	12A/IA	N245,109.96	E759,100.28
1709 1710	10A/HB	N245,607.03	E758,996.72
1711 1712	10B/HB	N245,505.29	E758,991.13
1713 1714	9B/JA	N245,702.48	E759,346.85
1715 1716	10A/JA	N245,596.79	E759,326.75
1717 1718	10B/JA	N245,458.96	E759,363.84
1719 1720	10B/JB	N245,476.35	E759,444.48
1721 1722	12B/IB	N244,966.11	E759,227.49
1723 1724	13A/IB	N244,872.60	E759,192.83
1725 1726	13A/IA	N244,849.06	E759,076.80
1727 1728	13B/IA	N244,749.99	E759,078.58
1729 1730	6B/JA	N246,506.75	E759,344.14
1731 1732	7A/JA	N246,393.60	E759,342.94
1733 1734	7B/JA	N246,224.11	E759,323.26
1735 1736	8A/IB	N246,057.54	E759,256.26

SAMPLE NO.	GRID	LOCATION	
1737 1738	8B/IB	N245,927.68	E759,233.97
1739 1740	8B/JA	N245,977.52	E759,345.18
1741 1742	9A/JA	N245,887.16	E759,331.15
1743 1744	9A/JB	N245,886.18	E759,463.65
1745 1746	8B/JB	N245,937.76	E759,444.69
1747 1748	8A/JB	N246,112.24	E759,445.01
1749 1750	7B/JB	N246,233.80	E759,458.86
1755 1756	7A/JB#1	N246,349.86	E759,441.64
1757 1758	7A/JB#2	N246,363.42	E759,421.50
1759 1760	7A/JB#3	N246,376.43	E759,426.53
1761 1762	7A/JB#4	N246,363.00	E759,456.71
1763 1764	6B/JB	N246,481.03	E759,463.21

NOTE: Odd numbered samples refer to the 0 - 12 inch sediment depth, even numbered samples refer to the 12 - 24 inch sediment depth.

LOCATION MAP
PCB CONCENTRATIONS LOCATED BY GRID SQUARE

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27 Sept 49

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PAGE _____

SUBJECT New Bedford Harbor Superfund Site

COMPUTATION HOT SPOT PCBs (ppm) in 0-12 inch sediment layer

COMPUTED BY _____ CHECKED BY _____ DATE _____

	G A	G B	H A	H B	I A	I B	J A	J B	K A	K B	L A	L B
6 A												
6 B							87	5598				
7 A							34334					
7 B							1607	23140				
8 A						616		4040				
8 B						2274	4388	628				
9 A							1293	814				
9 B							1575					
10 A				810	1868	3588	6760					
10 B				34		1631	12932	1246				
11 A				3371	24652	18346						
11 B				2619		5614						
12 A			5	3169	576							
12 B		42		1083	5762	1431						
13 A			85	1667	1697	901						
13 B			1345		1827							

GRID 11B/IA

9842	5223
4324	3892

GRID 7A/JB

73105	66314
71699	102099

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SUBJECT New Bedford Harbor Superfund Site

COMPUTATION Hot Spot PCBs (ppm) in 12-24 inch sediment layer

COMPUTED BY _____ CHECKED BY _____ DATE _____

	G		H		I		J		K		L	
	A	B	A	B	A	B	A	B	A	B	A	B
6 A												
6 B							-	12				
7 A							45073	-				
7 B							2.7	2823				
8 A						6.3		-				
8 B						5.6	1246	-				
9 A							-	-				
9 B							302					
10 A				-	-	2.2	3					
10 B				38		8	7	1				
11 A				128	2.9	1086						
11 B				0.6	-	354						
12 A			-	-	0.6							
12 B		-		-	201	9						
13 A			-	-	-	-						
13 B			-		-							

GRID 11B/IA

0.05	9.0
31	2.0

GRID 7A/JB

27304	42277
193	11386

PCB CONCENTRATIONS

New Bedford Harbor Superfund Site

Hot Spot: 0 - 12 inch sediment layer

Sample	Grid	PCBs (ppm)	Sample	Grid	PCBs(ppm)
1657	12B/GB	42.0	1713	9B/JA	1575.0
1659	12A/HA	5.0	1715	10A/JA	6760.0
1661	13A/HA	85.0	1717	10B/JA	12932.0
1663	13B/HA	1345.0	1719	10B/JB	1246.0
1665	13A/HB	1667.0	1721	12B/IB	1431.0
1667	12B/HB	1083.0	1723	13A/IB	901.0
1669	12A/HB	3169.0	1725	13A/IA	1697.0
1671	11B/HB	2619.0	1727	13B/IA	1827.0
1673	11A/HB	3371.0	1729	6B/JA	87.0
1675	11A/IA	24652.0	1731	7A/JA	34334.0
1677	11A/IB	18366.0	1733	7B/JA	1607.0
1679	11B/IB	5614.0	1735	8A/IB	616.0
1681	10A/IA	1868.0	1737	8B/IB	2274.0
1683	10A/IB	3588.0	1739	8B/JA	4388.0
1685	10B/IB	1631.0	1741	9A/JA	1293.0
1687	12B/IA	5762.0	1743	9A/JB	814.0
1689	11B/IA #1	4324.0	1745	8B/JB	628.0
1691	11B/IA #2	9842.0	1747	8A/JB	4040.0
1693	11B/IA #3	5223.0	1749	7B/JB	23140.0
1695	11B/IA #4	3892.0	1755	7A/JB #1	71699.0
1697	12A/IA	576.0	1757	7A/JB #2	73105.0
1709	10A/HB	810.0	1759	7A/JB #3	66314.0
1711	10B/HB	34.0	1761	7A/JB #4	102099.0
			1763	6B/JB	5598.0

New Bedford Harbor Superfund Site

Hot Spot: 12 - 24 inch sediment horizon

Sample	Grid	PCBs(ppm)	Sample	Grid	PCBs (ppm)
1658	12B/GB	-	1716	10A/JA	3.0
1660	12A/HA	-	1718	10B/JA	7.0
1662	13A/HA	-	1720	10B/JB	1.0
1664	13B/HA	-	1722	12B/IB	9.0
1666	13A/HB	-	1724	13A/IB	-
1668	12B/HB	-	1726	13A/IA	-
1670	12A/HB	-	1728	13B/IA	-
1672	11B/HB	0.6	1730	6B/JA	-
1674	11A/HB	128.0	1732	7A/JA	45073.0
1676	11A/IA	2.9	1734	7B/JA	2.7
1678	11A/IB	1086.0	1736	8A/IB	6.3
1680	11B/IB	354.0	1738	8B/IB	5.6
1682	10A/IA	-	1740	8B/JA	1246.0
1684	10A/IB	2.2	1742	9A/JA	-
1686	10B/IB	8.0	1744	9A/JB	-
1688	12B/IA	201.0	1746	8B/JA	-
1690	11B/IA #1	31.0	1748	8A/JB	-
1692	11B/IA #2	0.5	1750	7B/JB	2823.0
1694	11B/IA #3	9.0	1756	7A/JB #1	193.0
1696	11B/IA #4	2.0	1758	7A/JB #2	27304.0
1698	12A/IA	0.6	1760	7A/JB #3	42277.0
1710	10A/HB	-	1762	7A/JB #4	11386.0
1712	10B/HB	38.0	1764	6B/JB	12.0
1714	9B/JA	302.0			

RESULTS OF PHYSICAL ANALYSIS

New Bedford Harbor Superfund Site

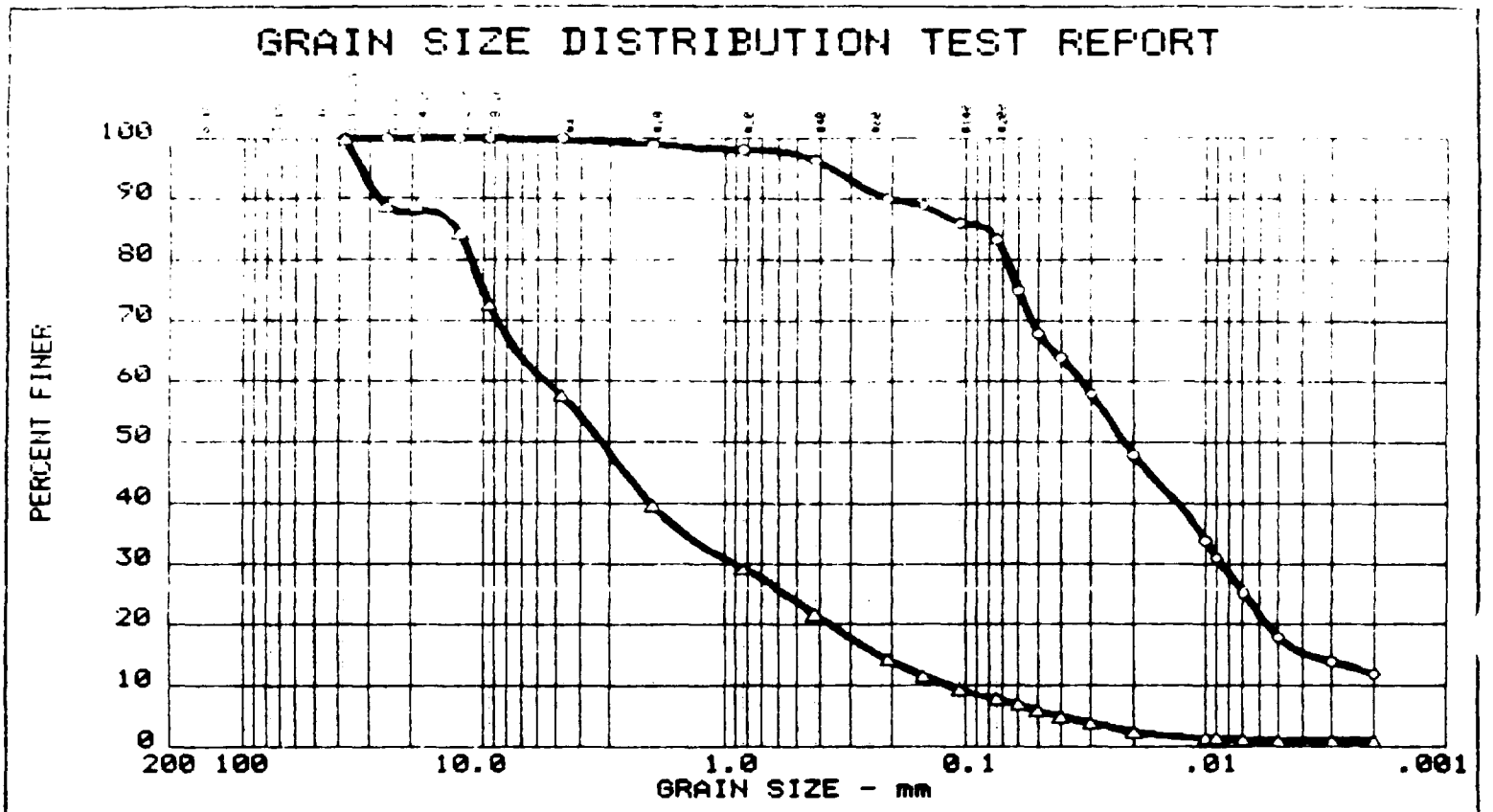
Hot Spot: Physical Analysis of 0 - 12 inch sediment layer

sample	LL	PL	PI	water content	specific gravity
1657	87	46	41	95.0	2.22
1665	130	60	70	185.4	2.31
1673	130	67	63	154.5	2.14
1677	123	75	48	163.4	2.29
1687	165	79	86	245.5	2.21
1691	145	78	67	203.7	2.22
1709	92	66	26	110.7	2.39
1717	138	89	49	223.2	2.17
1721	137	74	63	180.0	2.37
1723	133	82	51	144.9	2.47
1731	NON PLASTIC			13.7	2.68
1735	56	38	18	51.8	2.49
1739	99	64	35	122.0	2.32
1741	100	58	42	130.5	2.38
1759	67	43	24	67.4	2.23

TEST	HIGH	LOW
liquid limit	165	56
plastic limit	89	38
plasticity index	86	18
water content	245.5	13.7
specific gravity	2.68	2.14

New Bedford Superfund Project

Hot Spot: Grain Size distribution, 0 - 12 inch sediment layer



	Test	%+3"	% GRAVEL	% SAND	% SILT	% CLAY
○	13	0.0	0.3	16.3	65.4	18.0
△	14	0.0	42.3	49.9	6.8	1.0

	LL	PI	D_{75}	D_{60}	D_{50}	D_{30}	D_{25}	D_{10}	C_c	C_u
○			0.06	0.03	0.02	0.009	0.0070			
△			10.06	5.46	3.22	0.907	0.5591	0.1155	1.30	47.3

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KENNESAW GEORGIA 30144-5599
404-421-3400

GRAIN SIZE DISTRIBUTION

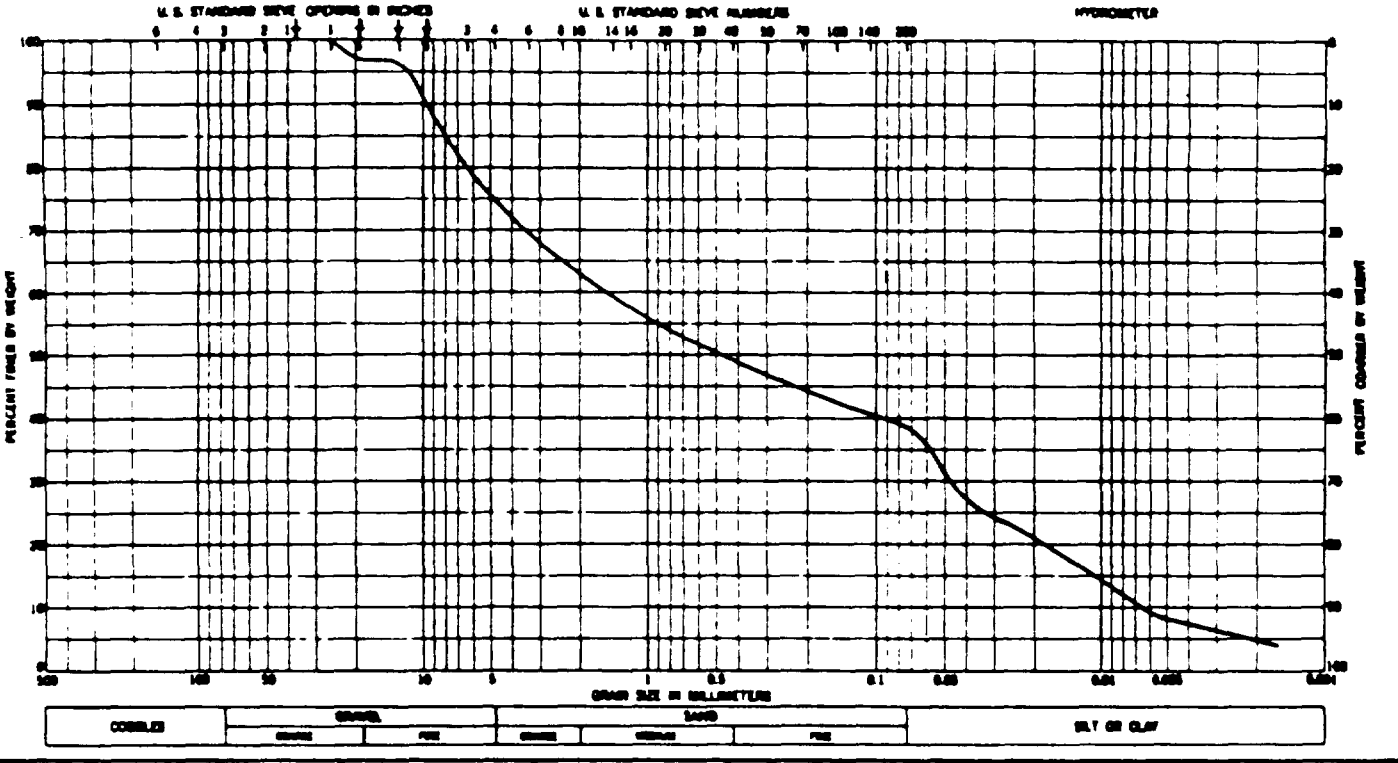
CLIENT Dept. of the Army
New England Division
Corps of Engineers

DATE August 19, 1987

JOB NO. LL7000.41

PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1657



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4	100.0	
3/4"	19.0	96.9	
1/2"	12.5	96.9	
3/8"	9.5	89.1	
4	4.75	75.0	
10	2.00	62.1	
20	0.85	54.3	
40	0.425	49.6	
70	0.212	44.1	
100	0.150	42.3	
140	0.106	40.4	
200	0.075	38.8	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 14.2
LIQUID LIMIT 87
PLASTIC LIMIT 46
PLASTICITY INDEX 41
WATER CONTENT (%) 95.0
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 117.19
SPECIFIC GRAVITY 2.22

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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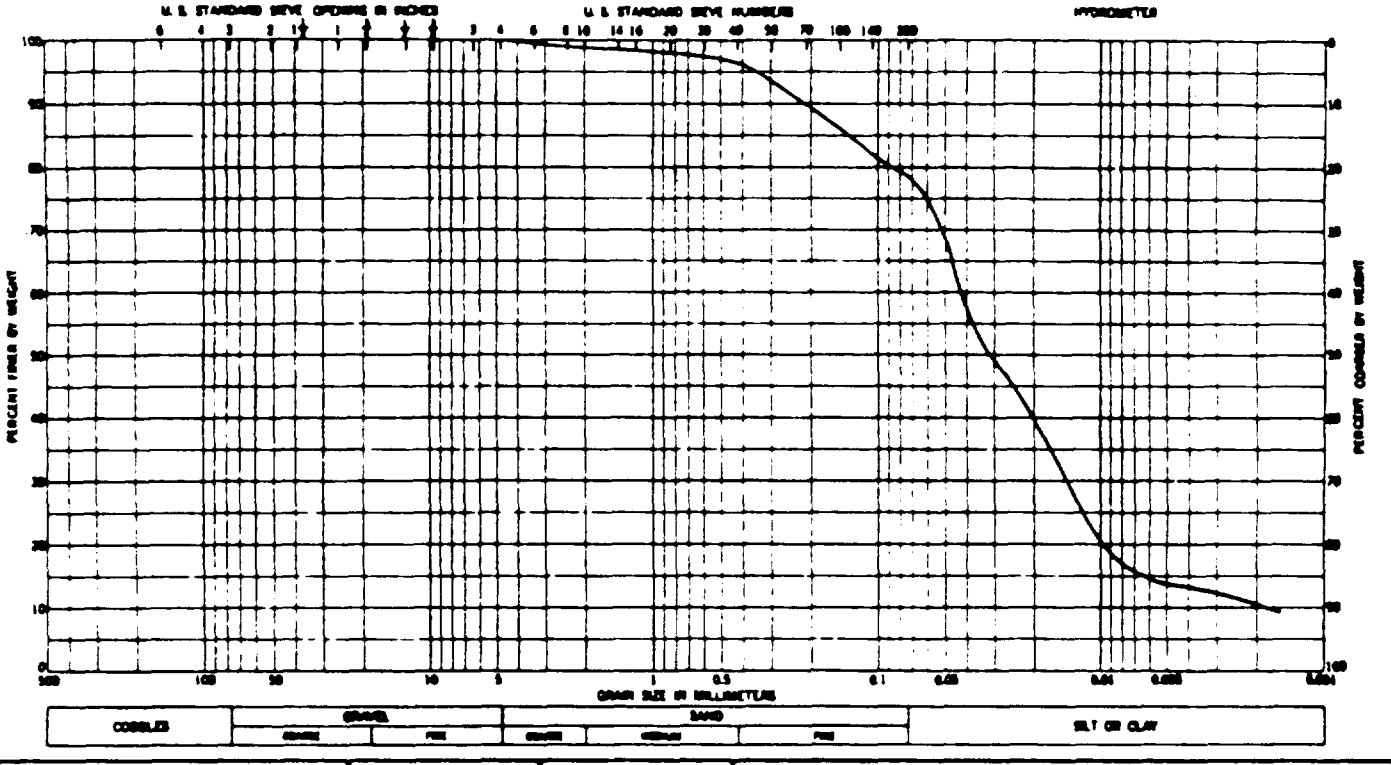
SAMPLE IDENTIFICATION 1665



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5		
4	4.75	100.0	
10	2.00	98.9	
20	0.85	98.1	
40	0.425	96.4	
70	0.212	89.8	
100	0.150	86.0	
140	0.106	81.5	
200	0.075	78.9	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 17.8
LIQUID LIMIT 130
PLASTIC LIMIT 60
PLASTICITY INDEX 70
WATER CONTENT (%) 185.4
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 85.46
SPECIFIC GRAVITY 2.31

TEST PROCEDURE ASTM D422, D854, D4318
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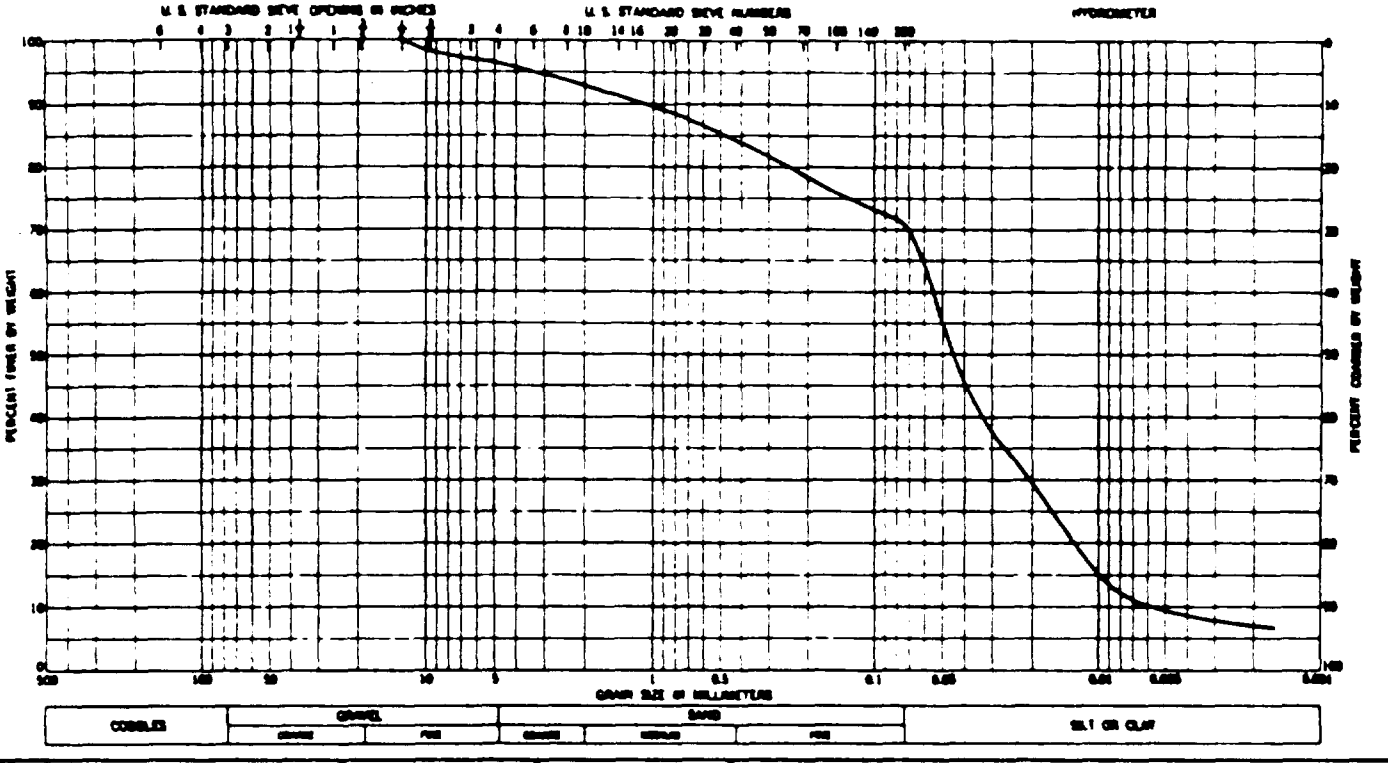
SAMPLE IDENTIFICATION 1673



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5	100.0	
3/8"	9.5	98.0	
4	4.75	95.4	
10	2.00	92.7	
20	0.85	88.1	
40	0.425	84.0	
70	0.212	78.3	
100	0.150	76.4	
140	0.106	73.3	
200	0.075	71.0	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 21.1
LIQUID LIMIT 130
PLASTIC LIMIT 67
PLASTICITY INDEX 63
WATER CONTENT (%) 154.5
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 79.55
SPECIFIC GRAVITY 2.14

TEST PROCEDURE ASTM D422, D854, D4318
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404 427-3400

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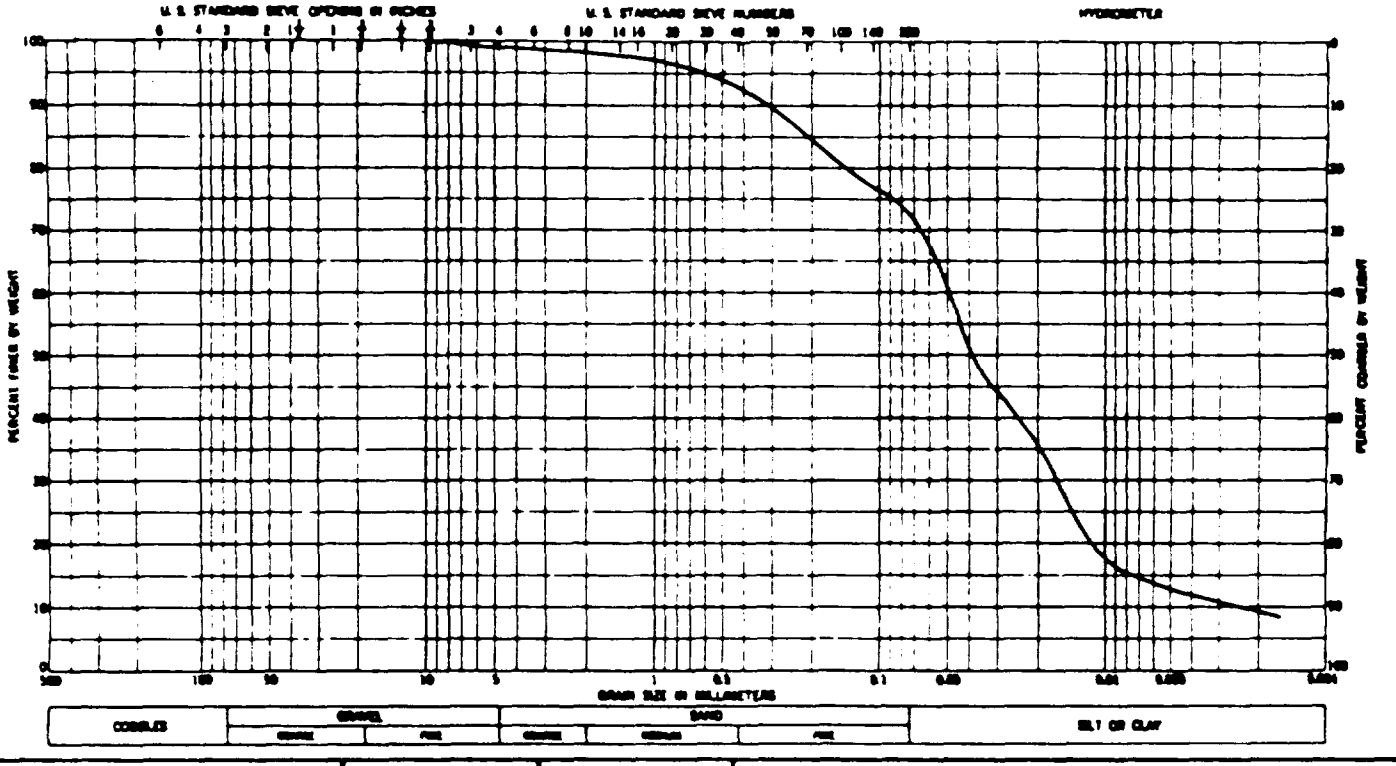
SAMPLE IDENTIFICATION 1677



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.2	
10	2.00	98.0	
20	0.85	96.2	
40	0.425	92.3	
70	0.212	84.5	
100	0.150	80.3	
140	0.106	76.5	
200	0.075	73.6	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 19.0
LIQUID LIMIT 123
PLASTIC LIMIT 75
PLASTICITY INDEX 48
WATER CONTENT (%) 163.4
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 81.28
SPECIFIC GRAVITY 2.29

TEST PROCEDURE ASTM D422, D854, D4318
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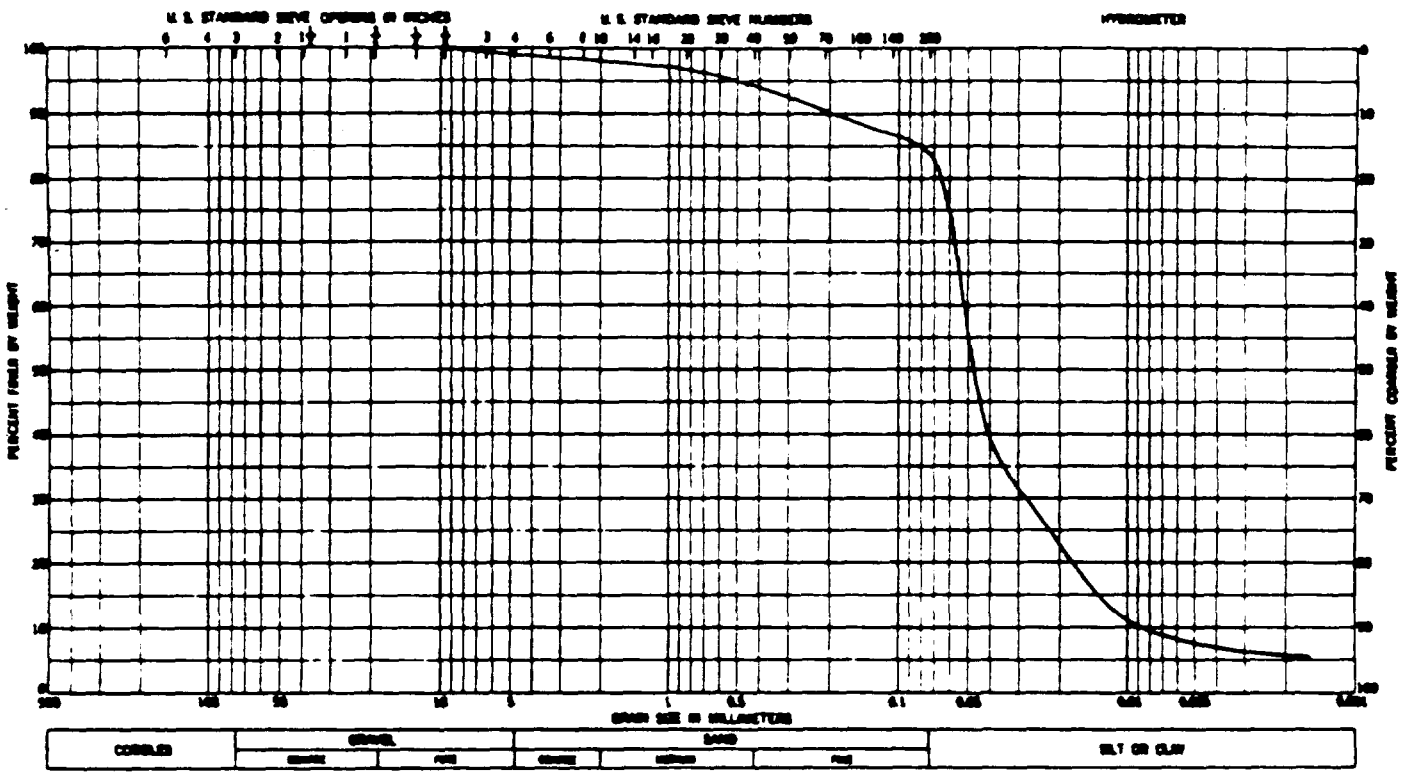
SAMPLE IDENTIFICATION 1687



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1 "	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.3	
10	2.00	98.4	
20	0.85	97.1	
40	0.425	93.9	
70	0.212	90.1	
100	0.150	88.9	
140	0.106	86.0	
200	0.075	83.4	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 16.8
LIQUID LIMIT 165
PLASTIC LIMIT 79
PLASTICITY INDEX 86
WATER CONTENT (%) 245.5
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 61.75
SPECIFIC GRAVITY 2.21

TEST PROCEDURE ASTM D422, D854, D4318
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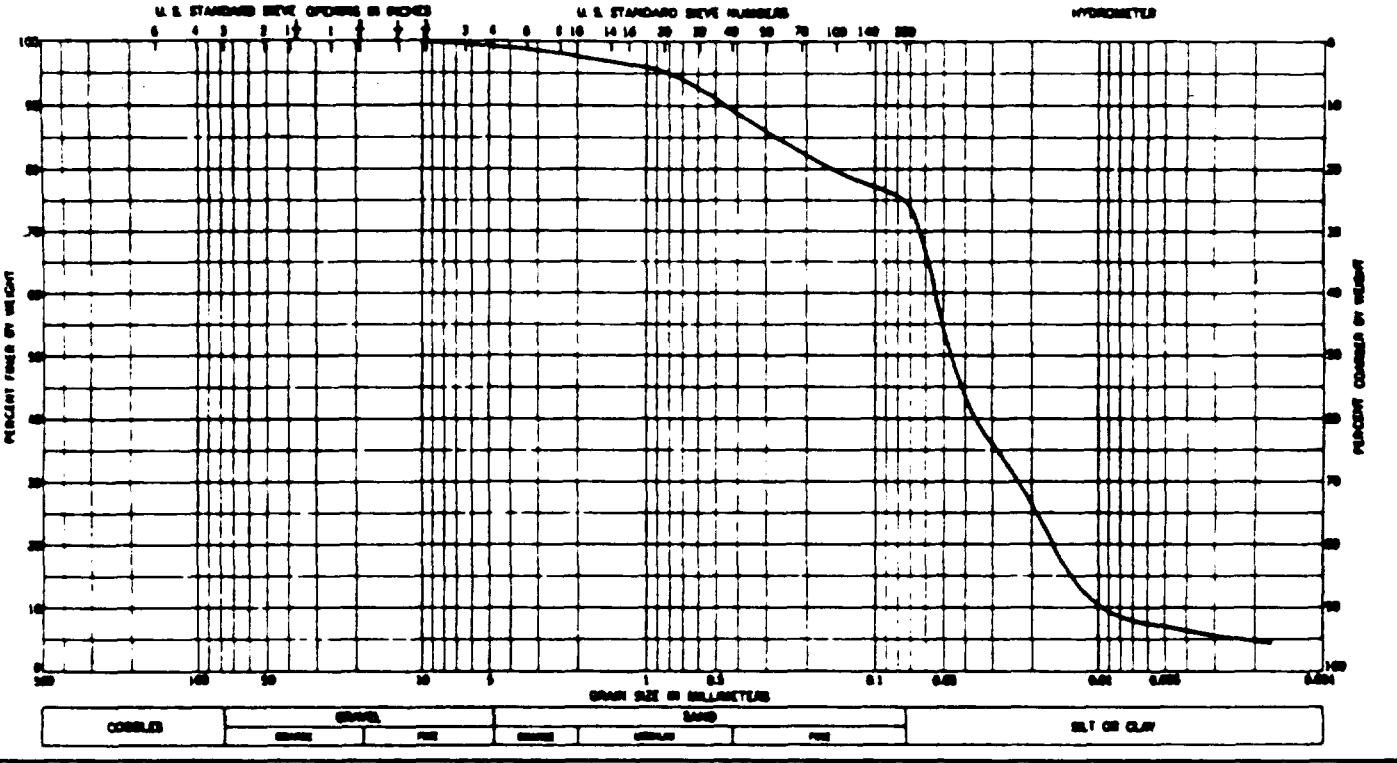
SAMPLE IDENTIFICATION 1691



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.4	
10	2.00	97.5	
20	0.85	95.3	
40	0.425	89.7	
70	0.212	82.1	
100	0.150	79.9	
140	0.106	77.1	
200	0.075	75.0	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 17.9
LIQUID LIMIT 145
PLASTIC LIMIT 78
PLASTICITY INDEX 67
WATER CONTENT (%) 203.7
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 68.19
SPECIFIC GRAVITY 2.22

TEST PROCEDURE ASTM D422, D854, D4318
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JOB NO. LL7000.41

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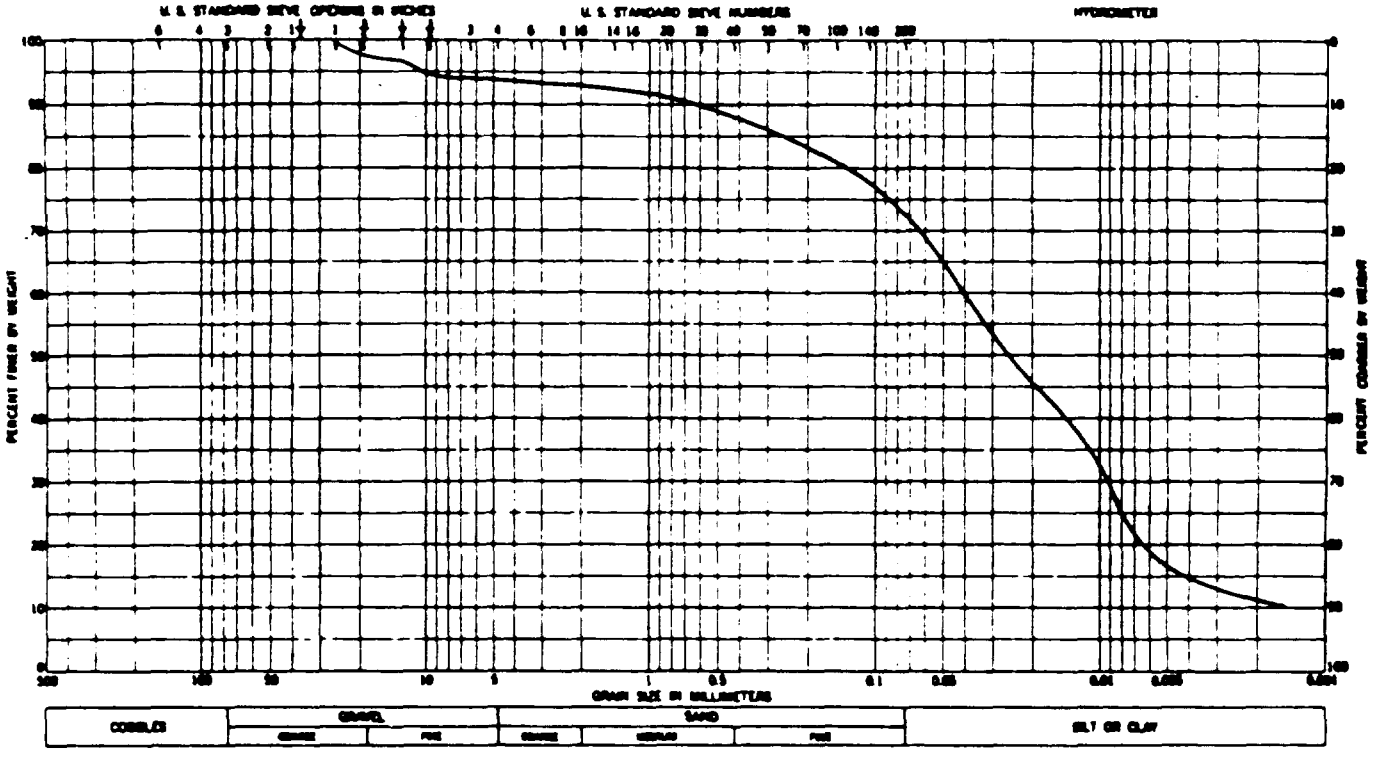
SAMPLE IDENTIFICATION 1709



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4	100.0	
3/4"	19.0	97.3	
1/2"	12.5	97.3	
3/8"	9.5	94.4	
4	4.75	93.8	
10	2.00	93.1	
20	0.85	91.3	
40	0.425	88.3	
70	0.212	83.2	
100	0.150	80.7	
140	0.106	76.6	
200	0.075	71.7	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 13.7
LIQUID LIMIT 92
PLASTIC LIMIT 66
PLASTICITY INDEX 26
WATER CONTENT (%) 110.7
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 105.32
SPECIFIC GRAVITY 2.39

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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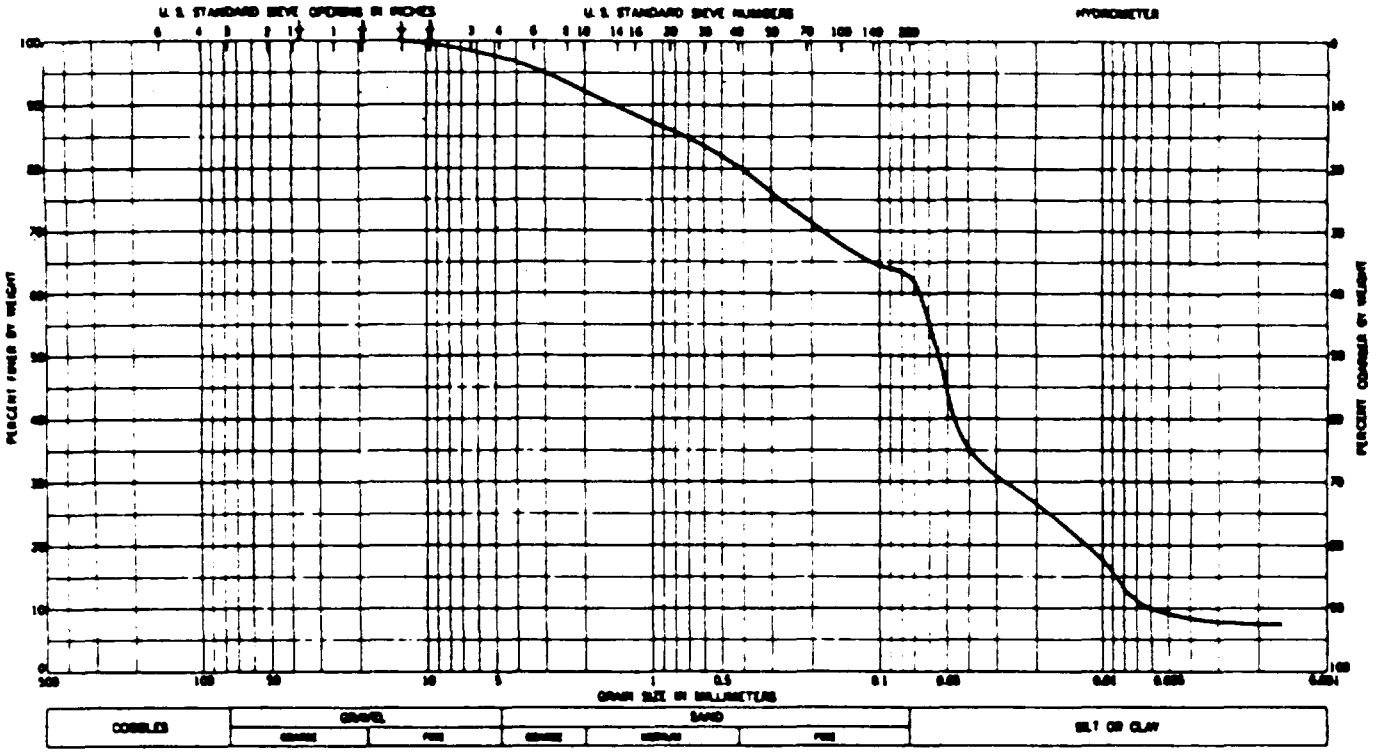
SAMPLE IDENTIFICATION 1717



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5	100.0	
3/8"	9.5	99.5	
4	4.75	98.1	
10	2.00	91.9	
20	0.85	85.9	
40	0.425	80.6	
70	0.212	71.3	
100	0.150	68.2	
140	0.106	64.6	
200	0.075	62.7	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 22.0
LIQUID LIMIT 138
PLASTIC LIMIT 89
PLASTICITY INDEX 49
WATER CONTENT (%) 223.2
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 71.26
SPECIFIC GRAVITY 2.17

TEST PROCEDURE ASTM D422, D854, D4318
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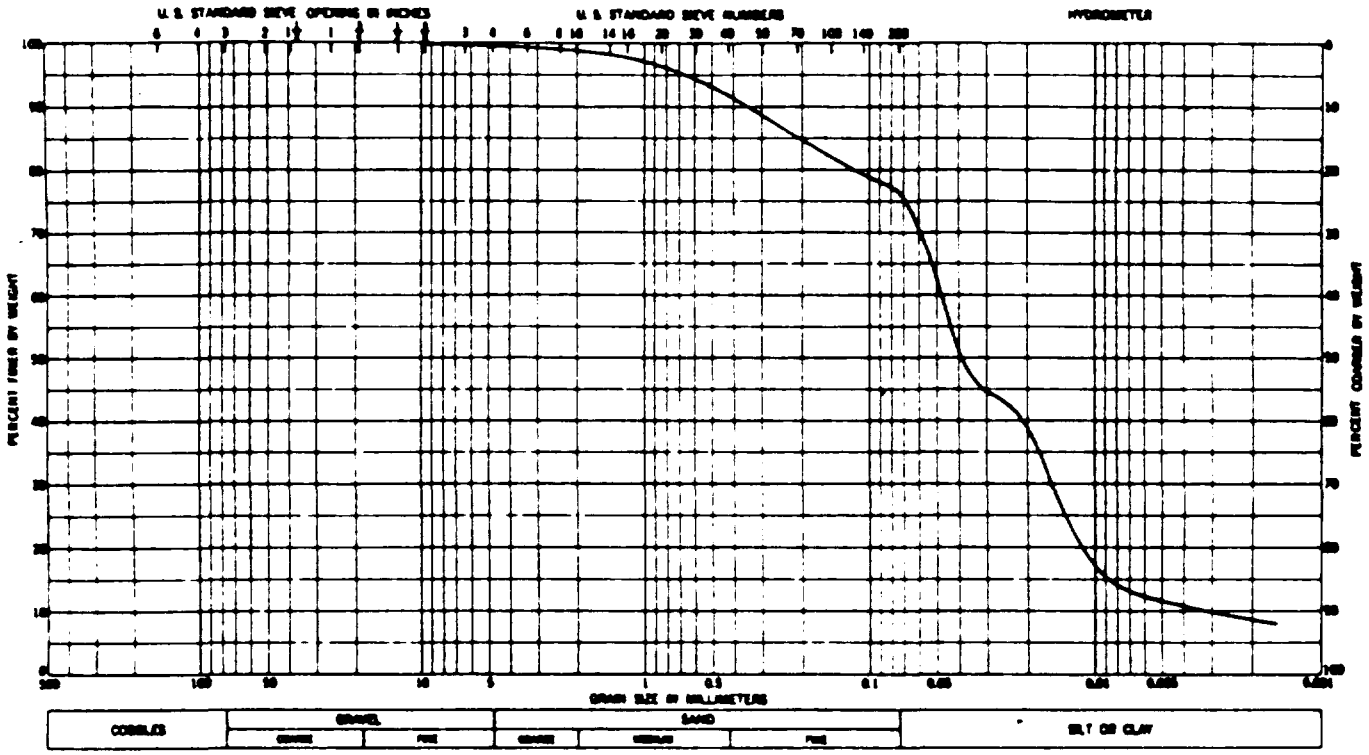

U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.8	
10	2.00	99.0	
20	0.85	96.0	
40	0.425	91.1	
70	0.212	84.8	
100	0.150	82.4	
140	0.106	78.8	
200	0.075	76.7	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 17.5
LIQUID LIMIT 137
PLASTIC LIMIT 74
PLASTICITY INDEX 63
WATER CONTENT (%) 180.0
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 81.90
SPECIFIC GRAVITY 2.37

TEST PROCEDURE ASTM D422, D854, D4318
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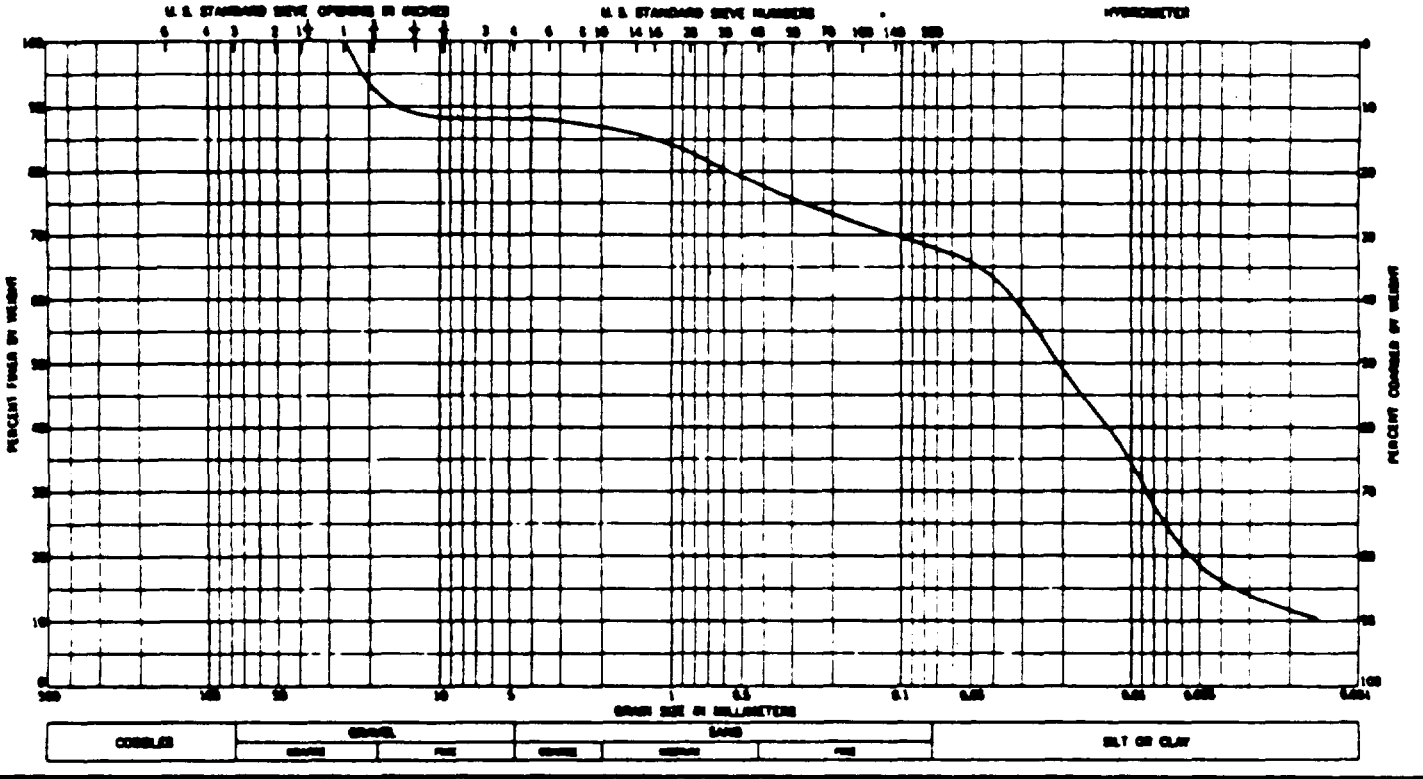

U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4	100.0	
3/4"	19.0	92.0	
1/2"	12.5	89.7	
3/8"	9.5	88.4	
4	4.75	88.3	
10	2.00	87.0	
20	0.85	82.7	
40	0.425	78.6	
70	0.212	73.6	
100	0.150	72.1	
140	0.106	69.8	
200	0.075	68.3	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 13.8
LIQUID LIMIT 133
PLASTIC LIMIT 82
PLASTICITY INDEX 51
WATER CONTENT (%) 144.9
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 92.22
SPECIFIC GRAVITY 2.47

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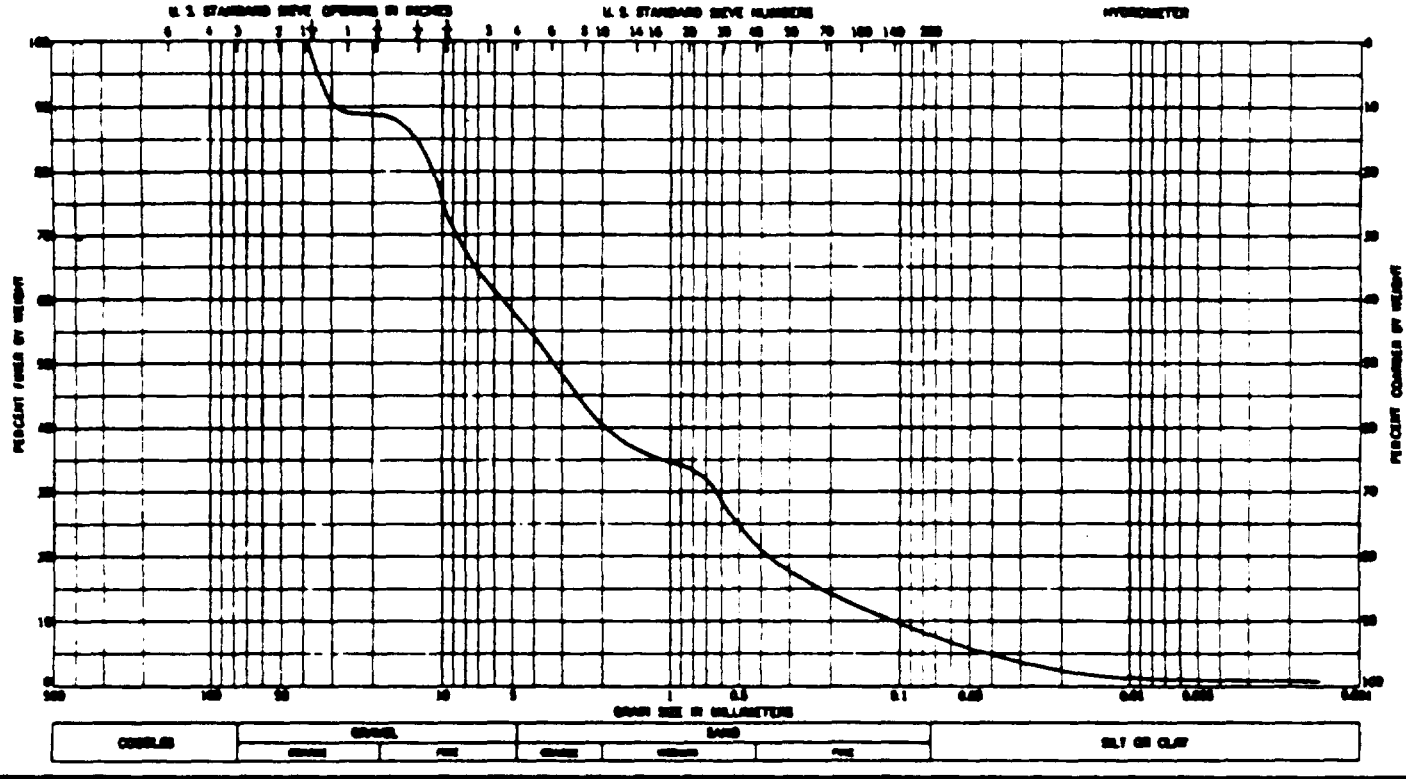

U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1.5"	38.0	100.0	
1"	25.4	88.6	
3/4"	19.0	88.6	
1/2"	12.5	84.4	
3/8"	9.5	72.7	
4	4.75	57.7	
10	2.00	39.8	
20	0.85	2.92	
40	0.425	21.7	
70	0.212	14.3	
100	0.150	11.7	
140	0.106	9.4	
200	0.075	7.8	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 4.9
LIQUID LIMIT -
PLASTIC LIMIT -
PLASTICITY INDEX Non-Plastic
WATER CONTENT (%) 13.7
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 329.00
SPECIFIC GRAVITY 2.68

TEST PROCEDURE ASTM D422, D854, D4318
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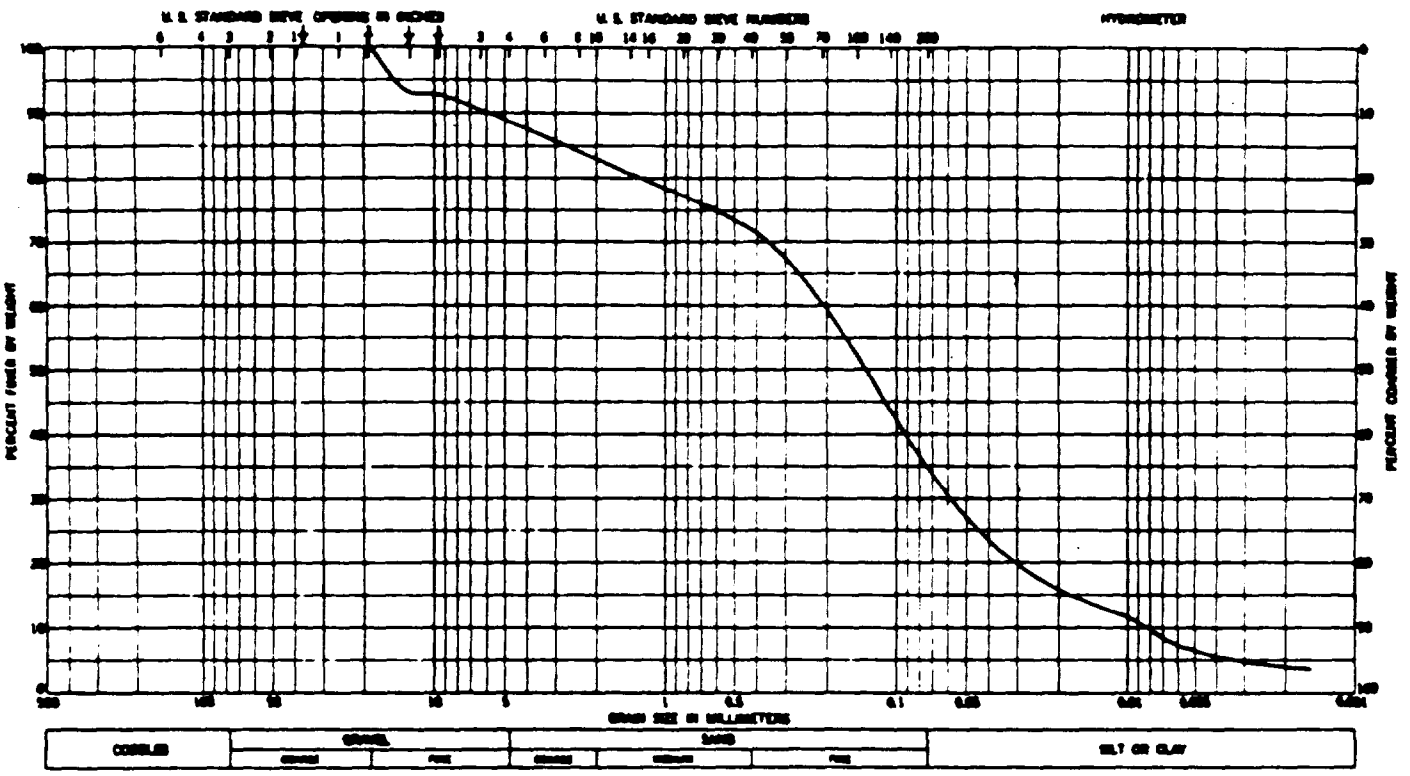

U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0	100.0	
1/2"	12.5	93.4	
3/8"	9.5	93.4	
4	4.75	88.8	
10	2.00	82.7	
20	0.85	76.9	
40	0.425	71.3	
70	0.212	59.9	
100	0.150	52.8	
140	0.106	42.7	
200	0.075	34.8	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 9.4
LIQUID LIMIT 56
PLASTIC LIMIT 38
PLASTICITY INDEX 18
WATER CONTENT (%) 51.8
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 162.77
SPECIFIC GRAVITY 2.49

TEST PROCEDURE ASTM D422, D854, D4318
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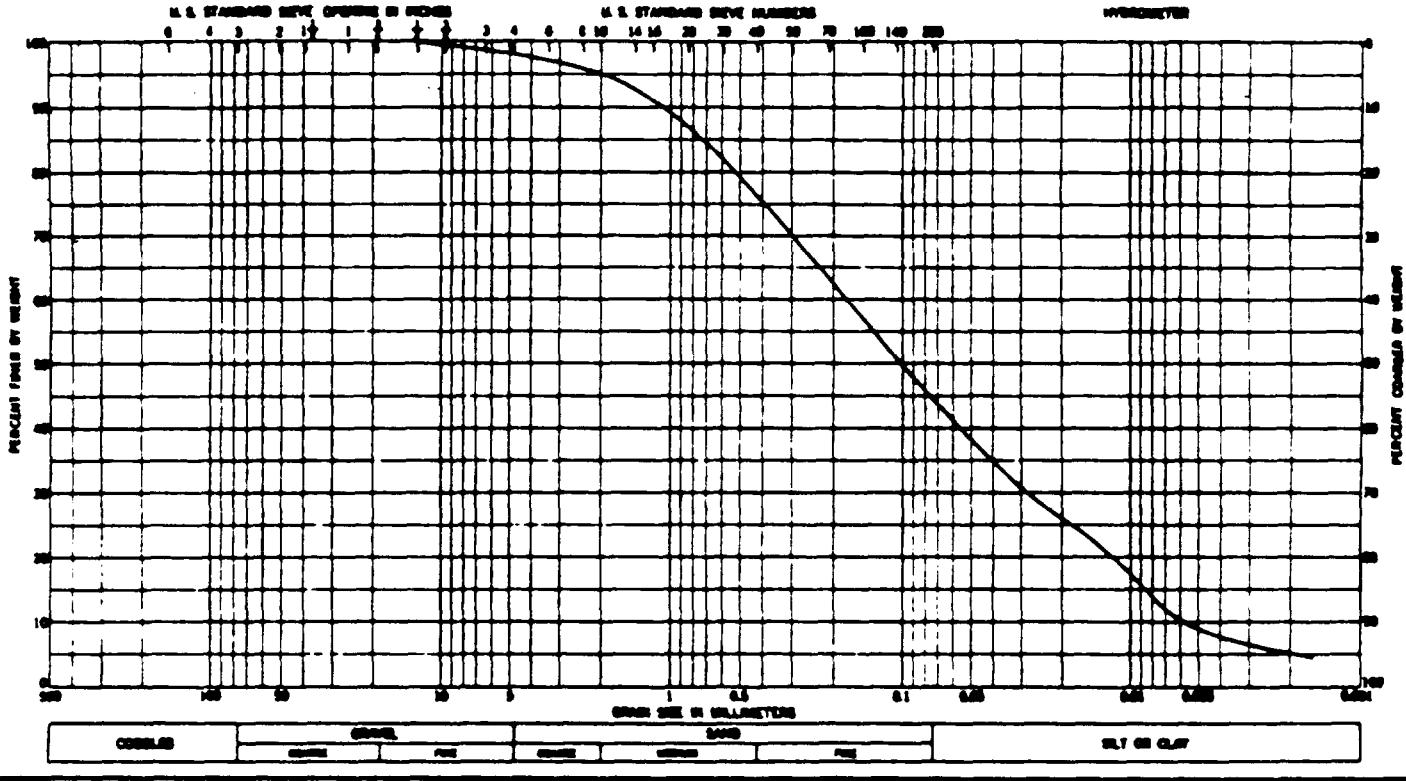

U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5	100.0	
3/8"	9.5	99.0	
4	4.75	98.7	
10	2.00	95.6	
20	0.85	86.5	
40	0.425	77.0	
70	0.212	62.9	
100	0.150	57.0	
140	0.106	49.8	
200	0.075	44.2	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 14.1
LIQUID LIMIT 99
PLASTIC LIMIT 64
PLASTICITY INDEX 35
WATER CONTENT (%) 122.0
CLASSIFICATION
SIEVE SAMPLE TOTAL DRY WEIGHT(GRAMS) 103.12
SPECIFIC GRAVITY 2.32

TEST PROCEDURE ASTM D422, D854, D4318
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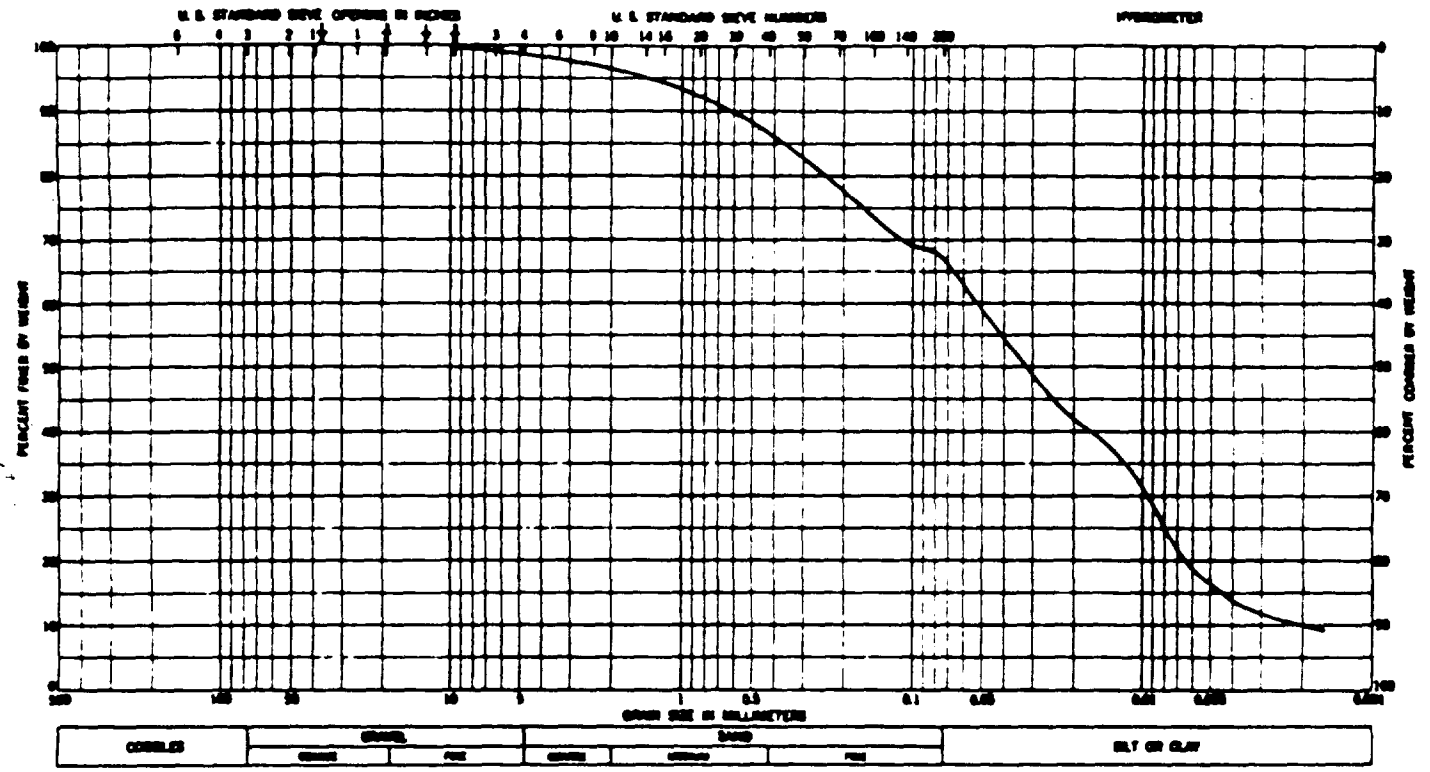
SAMPLE IDENTIFICATION 1741



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.4	
10	2.00	97.4	
20	0.85	92.9	
40	0.425	86.5	
70	0.212	78.0	
100	0.150	75.2	
140	0.106	69.9	
200	0.075	68.0	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 13.2
LIQUID LIMIT 100
PLASTIC LIMIT 58
PLASTICITY INDEX 42
WATER CONTENT (%) 130.5
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 91.88
SPECIFIC GRAVITY 2.38

TEST PROCEDURE ASTM D422, D854, D4318
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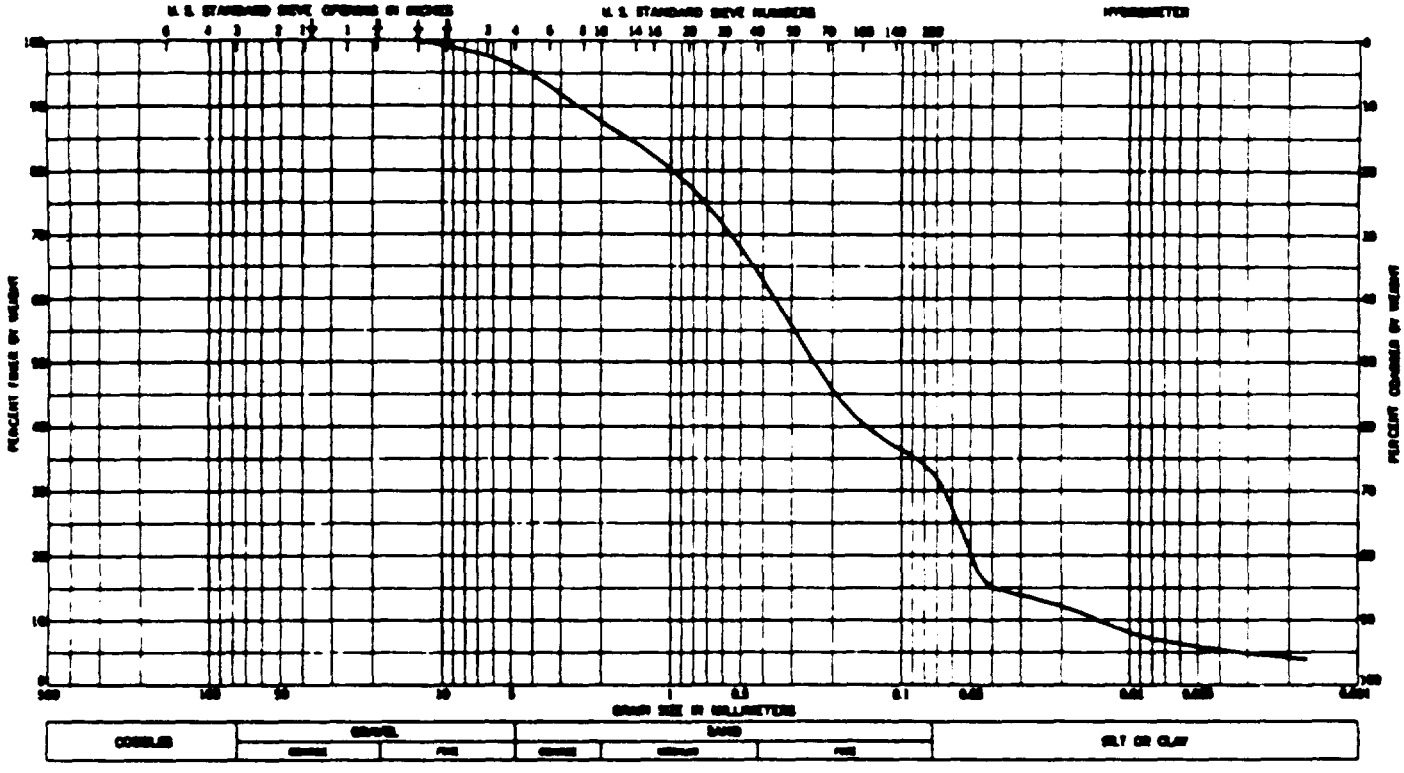
SAMPLE IDENTIFICATION 1759



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5	100.0	
3/8"	9.5	99.5	
4	4.75	96.4	
10	2.00	87.1	
20	0.85	77.8	
40	0.425	63.9	
70	0.212	46.3	
100	0.150	40.6	
140	0.106	36.1	
200	0.075	33.6	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 18.9
LIQUID LIMIT 67
PLASTIC LIMIT 43
PLASTICITY INDEX 24
WATER CONTENT (%) 67.4
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 152.65
SPECIFIC GRAVITY 2.23

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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M. A. O'Kelley

New Bedford Superfund Project

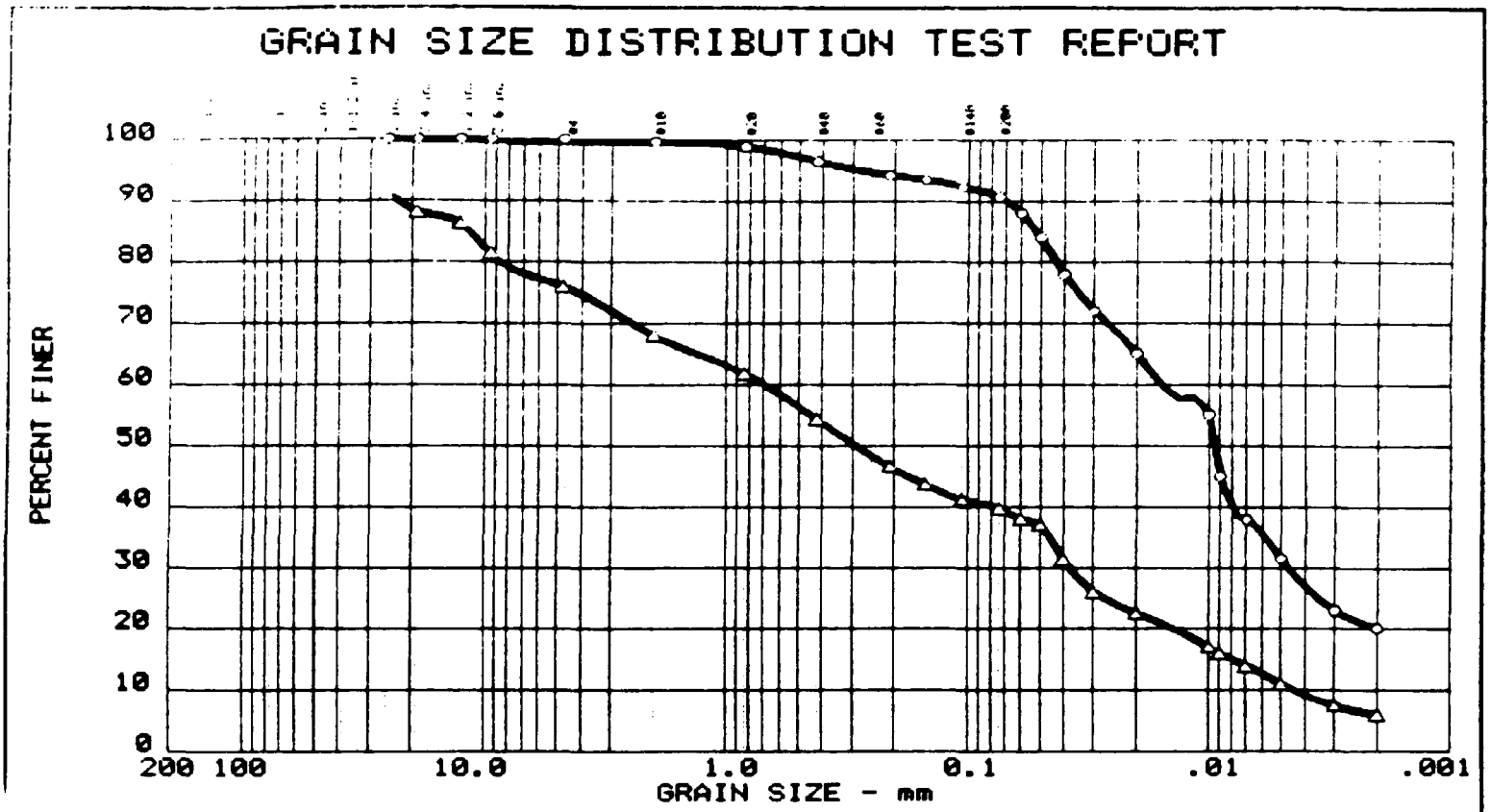
Hot Spot: Physical analysis of 12 - 24 inch sediment layer

sample	LL	PL	PI	water content	specific gravity
1658	113	51	62	123.9	2.48
1666	100	43	57	100.9	2.49
1674	155	77	78	182.7	2.18
1678	165	74	91	170.9	2.46
1688	149	75	74	204.8	2.28
1692	106	53	53	122.1	2.52
1710	116	59	57	121.5	2.45
1718	86	44	42	114.5	2.48
1722	140	66	74	144.3	2.53
1724	115	54	61	120.2	2.55
1732	95	68	27	77.5	2.32
1736	82	48	34	70.3	2.39
1740	114	53	61	139.6	2.42
1742	114	56	58	119.9	2.51
1760	94	51	43	66.6	2.44

TEST	HIGH	LOW
liquid limit	165	82
plastic limit	77	43
plasticity index	91	27
water content	204.8	66.6
specific gravity	2.55	2.18

New Bedford Superfund Project

Hot Spot: Grain Size distribution, 12 - 24 inch sediment layer



	Test	%+3"	% GRAVEL	% SAND	% SILT	% CLAY
○	15	0.0	0.4	8.9	59.2	31.5
△	16	0.0	24.0	36.2	28.8	11.0

	LL	PI	D_{75}	D_{60}	D_{50}	D_{30}	D_{25}	D_{10}	C_c	C_u
○			0.04	0.02	0.01	0.005	0.0035			
△			4.12	0.69	0.29	0.038	0.0272	0.0044	0.46	156.7

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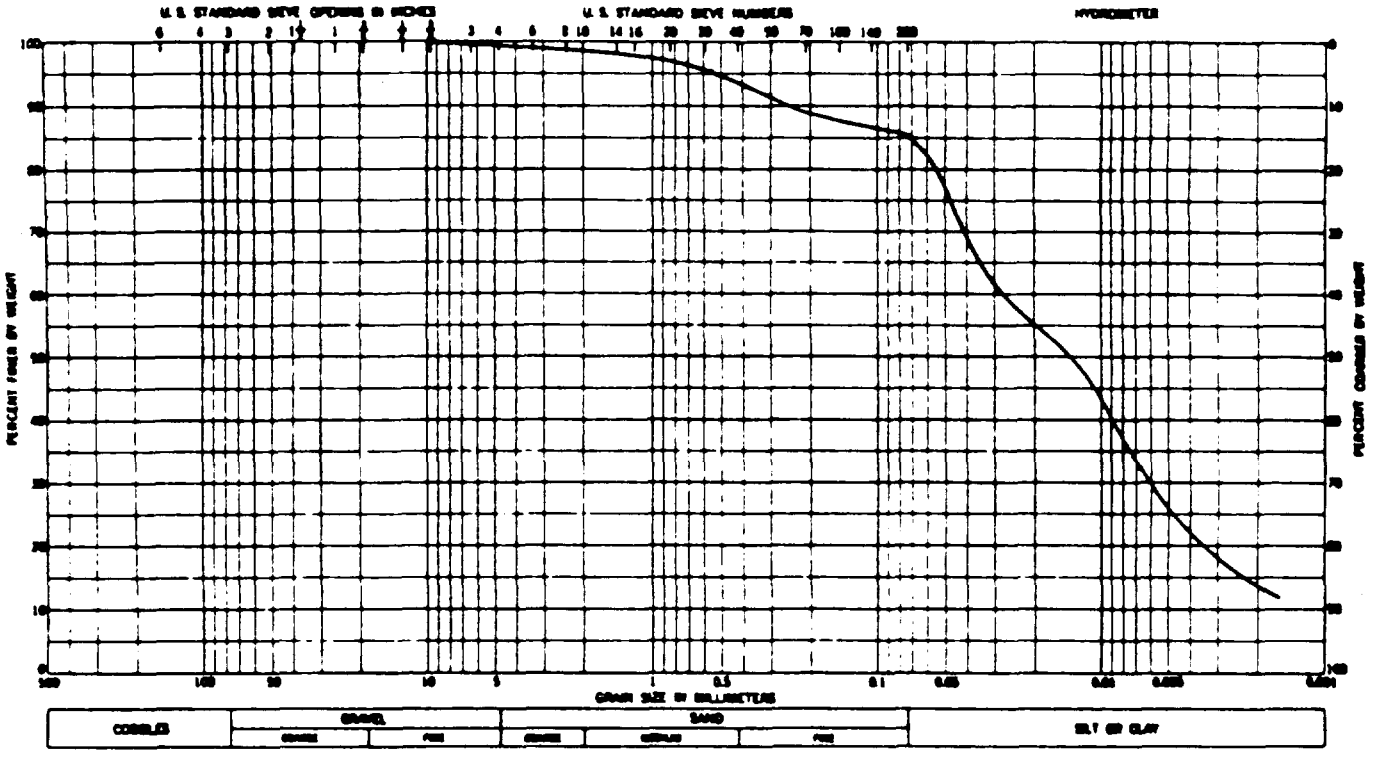
SAMPLE IDENTIFICATION 1658



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.2	
10	2.00	98.8	
20	0.85	97.3	
40	0.425	93.6	
70	0.212	89.2	
100	0.150	88.1	
140	0.106	86.6	
200	0.075	85.1	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 8.7
LIQUID LIMIT 113
PLASTIC LIMIT 51
PLASTICITY INDEX 62
WATER CONTENT (%) 123.9
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 69.92
SPECIFIC GRAVITY 2.48

TEST PROCEDURE ASTM D422, D854, D4318
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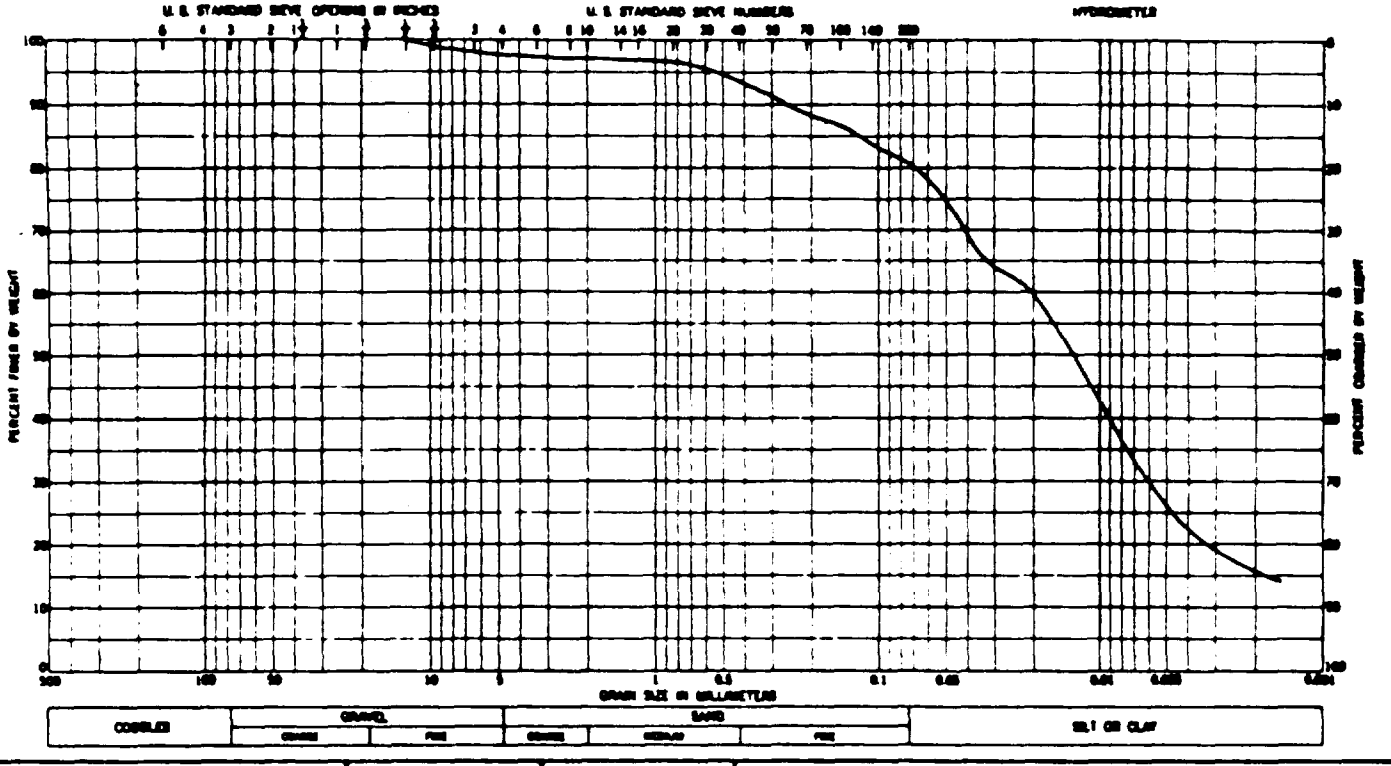
SAMPLE IDENTIFICATION 1666



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5	100.0	
3/8"	9.5	99.1	
4	4.75	97.9	
10	2.00	97.5	
20	0.85	96.5	
40	0.425	94.2	
70	0.212	88.2	
100	0.150	86.0	
140	0.106	83.1	
200	0.075	81.0	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 8.9
LIQUID LIMIT 100
PLASTIC LIMIT 43
PLASTICITY INDEX 57
WATER CONTENT (%) 100.9
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 79.28
SPECIFIC GRAVITY 2.49

TEST PROCEDURE ASTM D422, D854, D4318
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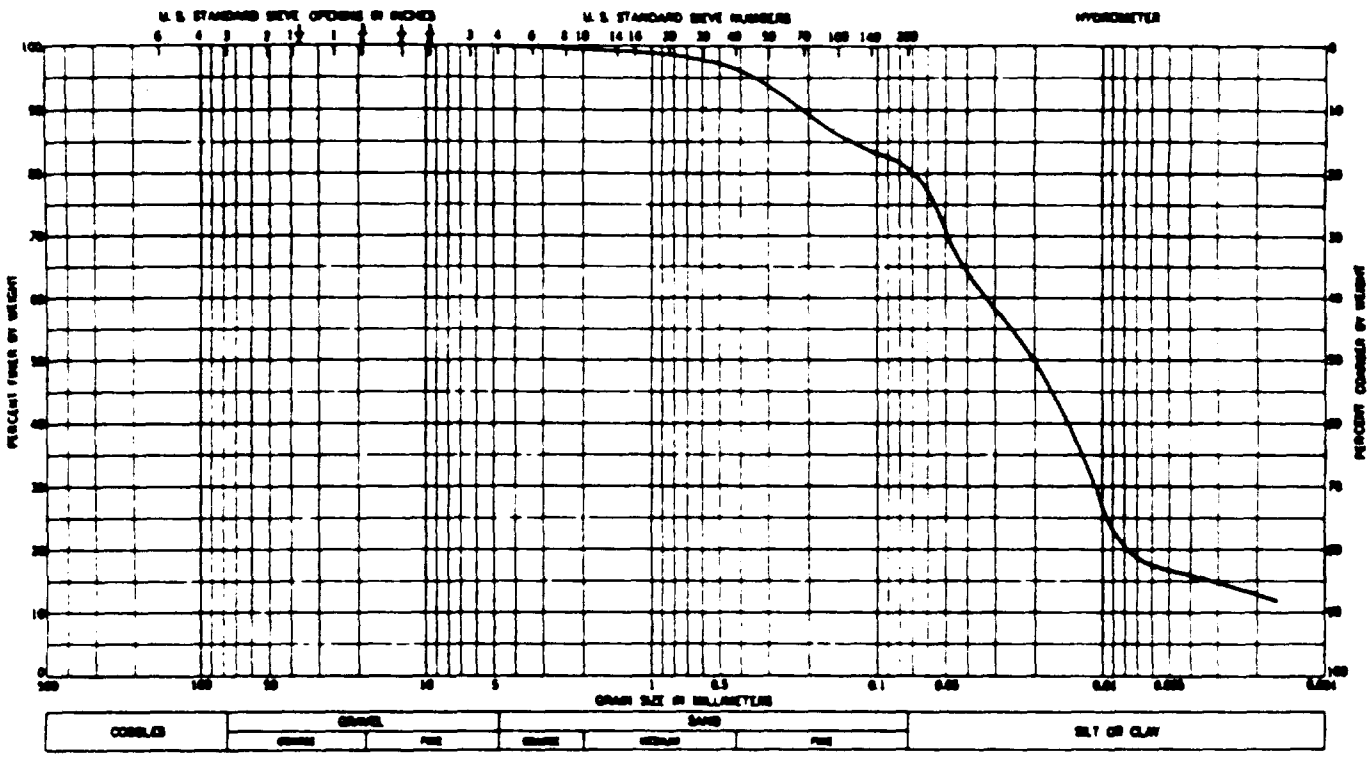
SAMPLE IDENTIFICATION 1674



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5		
4	4.75	100.0	
10	2.00	99.6	
20	0.85	98.9	
40	0.425	96.5	
70	0.212	89.4	
100	0.150	86.4	
140	0.106	83.2	
200	0.075	80.8	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 19.3
LIQUID LIMIT 155
PLASTIC LIMIT 77
PLASTICITY INDEX 78
WATER CONTENT (%) 182.7
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 64.08
SPECIFIC GRAVITY 2.18

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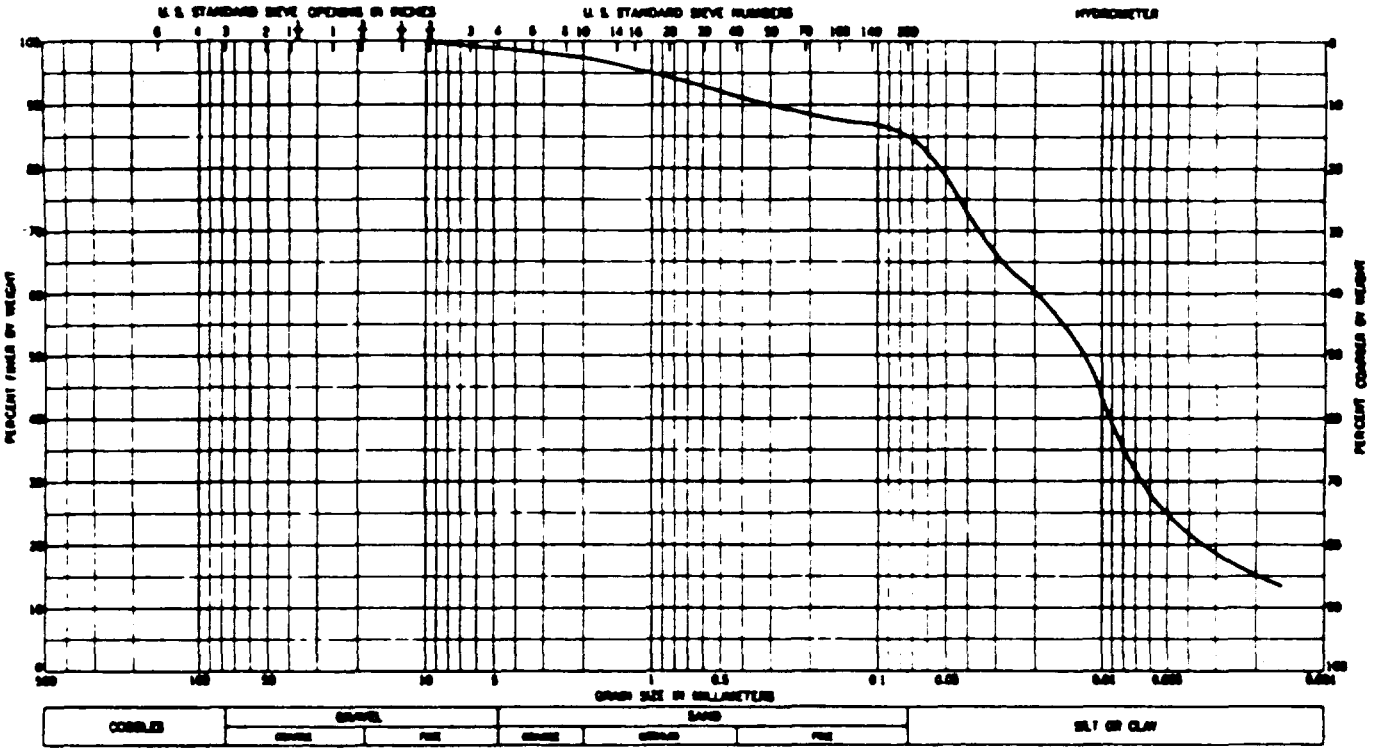
SAMPLE IDENTIFICATION 1678



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.1	
10	2.00	97.7	
20	0.85	94.7	
40	0.425	91.2	
70	0.212	88.5	
100	0.150	87.7	
140	0.106	86.4	
200	0.075	85.0	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 13.4
LIQUID LIMIT 165
PLASTIC LIMIT 74
PLASTICITY INDEX 91
WATER CONTENT (%) 170.9
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 61.32
SPECIFIC GRAVITY 2.46

TEST PROCEDURE ASTM D422, D854, D4318
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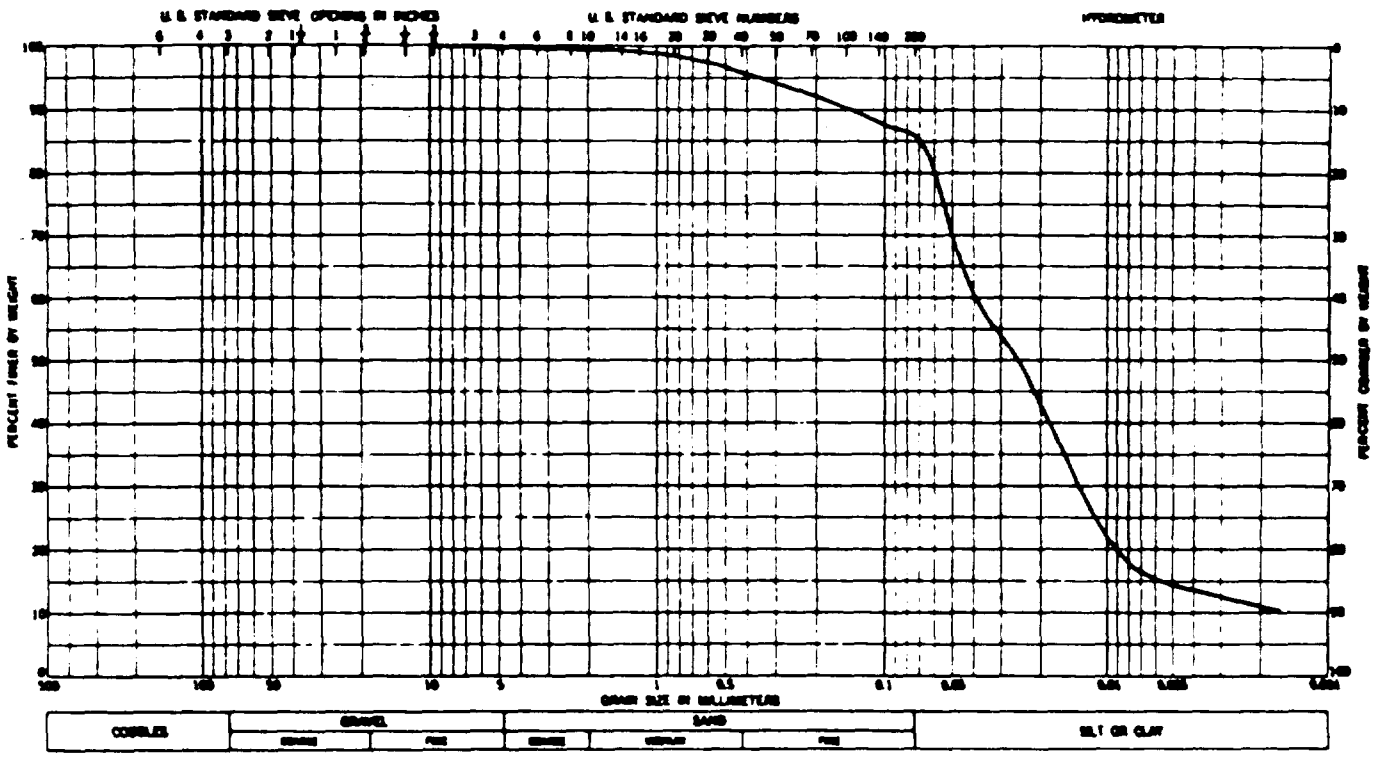
PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1688



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.7	
10	2.00	99.5	
20	0.85	99.0	
40	0.425	95.9	
70	0.212	91.9	
100	0.150	90.3	
140	0.106	88.1	
200	0.075	86.2	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 19.9
LIQUID LIMIT 149
PLASTIC LIMIT 75
PLASTICITY INDEX 74
WATER CONTENT (%) 204.8
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 72.00
SPECIFIC GRAVITY 2.28

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

LAW ENVIRONMENTAL, INC.

M. A. O'Kelley

LAW ENVIRONMENTAL, INC.
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GRAIN SIZE DISTRIBUTION

CLIENT Dept. of the Army
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DATE August 19, 1987

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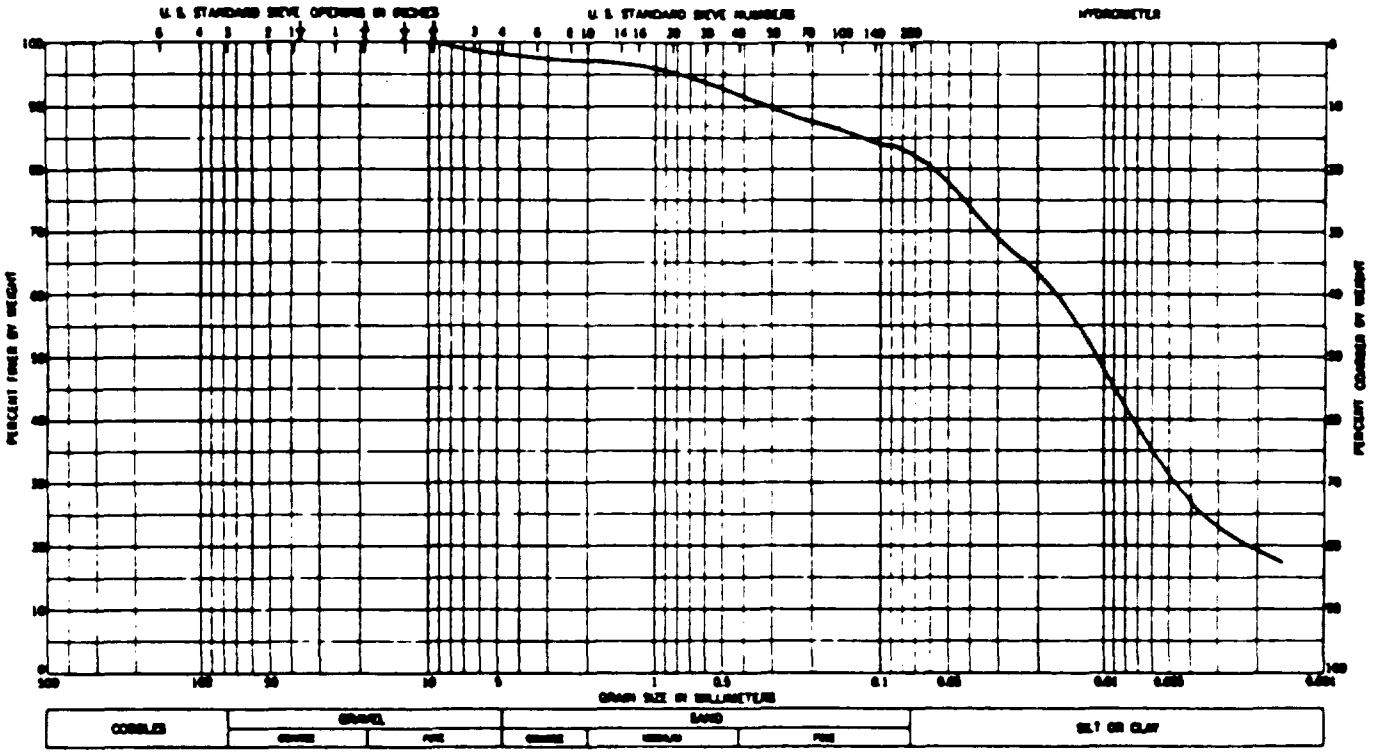
PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1692



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	98.1	
10	2.00	97.4	
20	0.85	95.5	
40	0.425	91.9	
70	0.212	87.1	
100	0.150	86.0	
140	0.106	84.0	
200	0.075	82.7	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 7.9
LIQUID LIMIT 106
PLASTIC LIMIT 53
PLASTICITY INDEX 53
WATER CONTENT (%) 122.1
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 90.18
SPECIFIC GRAVITY 2.52

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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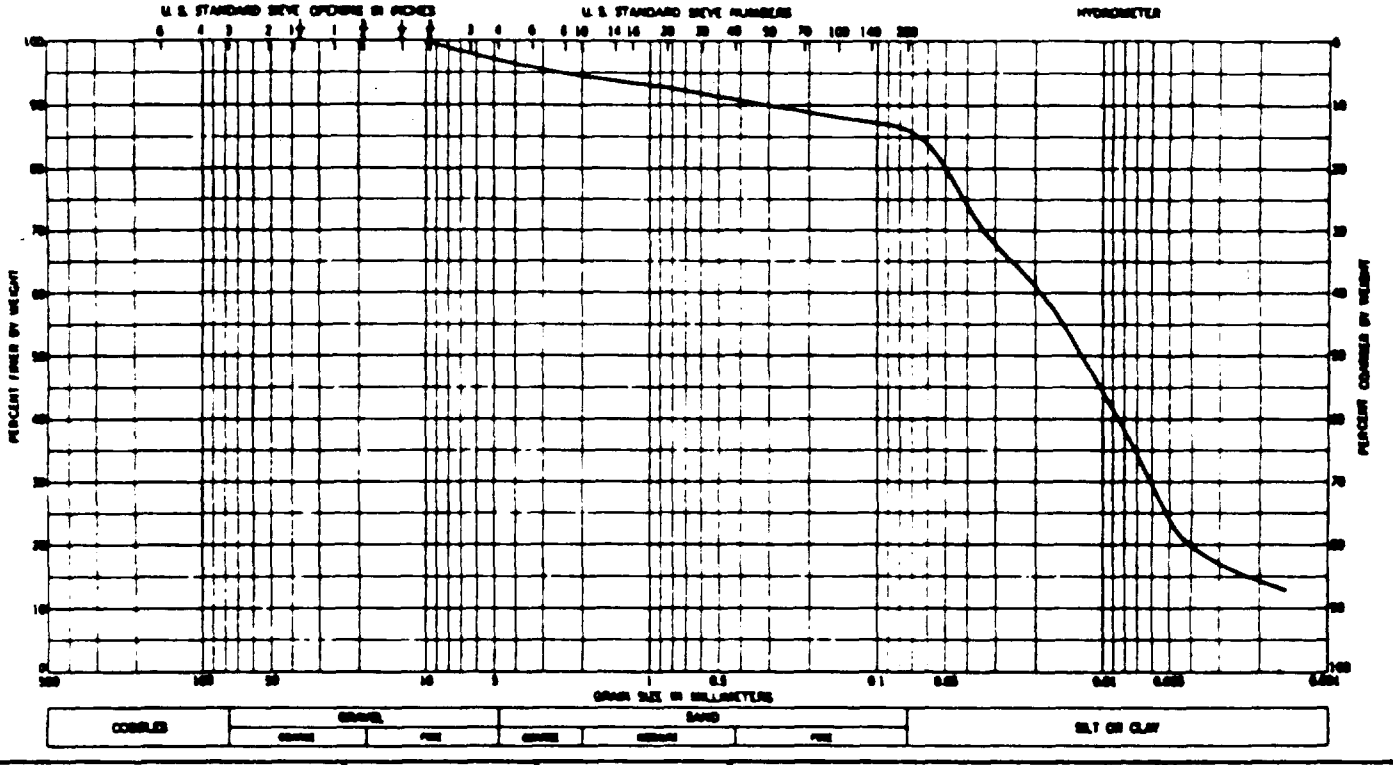
PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1710



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	97.1	
10	2.00	94.8	
20	0.85	92.6	
40	0.425	91.0	
70	0.212	89.1	
100	0.150	88.4	
140	0.106	86.9	
200	0.075	86.1	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 10.8
LIQUID LIMIT 116
PLASTIC LIMIT 59
PLASTICITY INDEX 57
WATER CONTENT (%) 121.5
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 83.37
SPECIFIC GRAVITY 2.45

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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KENNESAW, GEORGIA 30144-5599
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GRAIN SIZE DISTRIBUTION

CLIENT Dept. of the Army
New England Division
Corps of Engineers

DATE August 19, 1987

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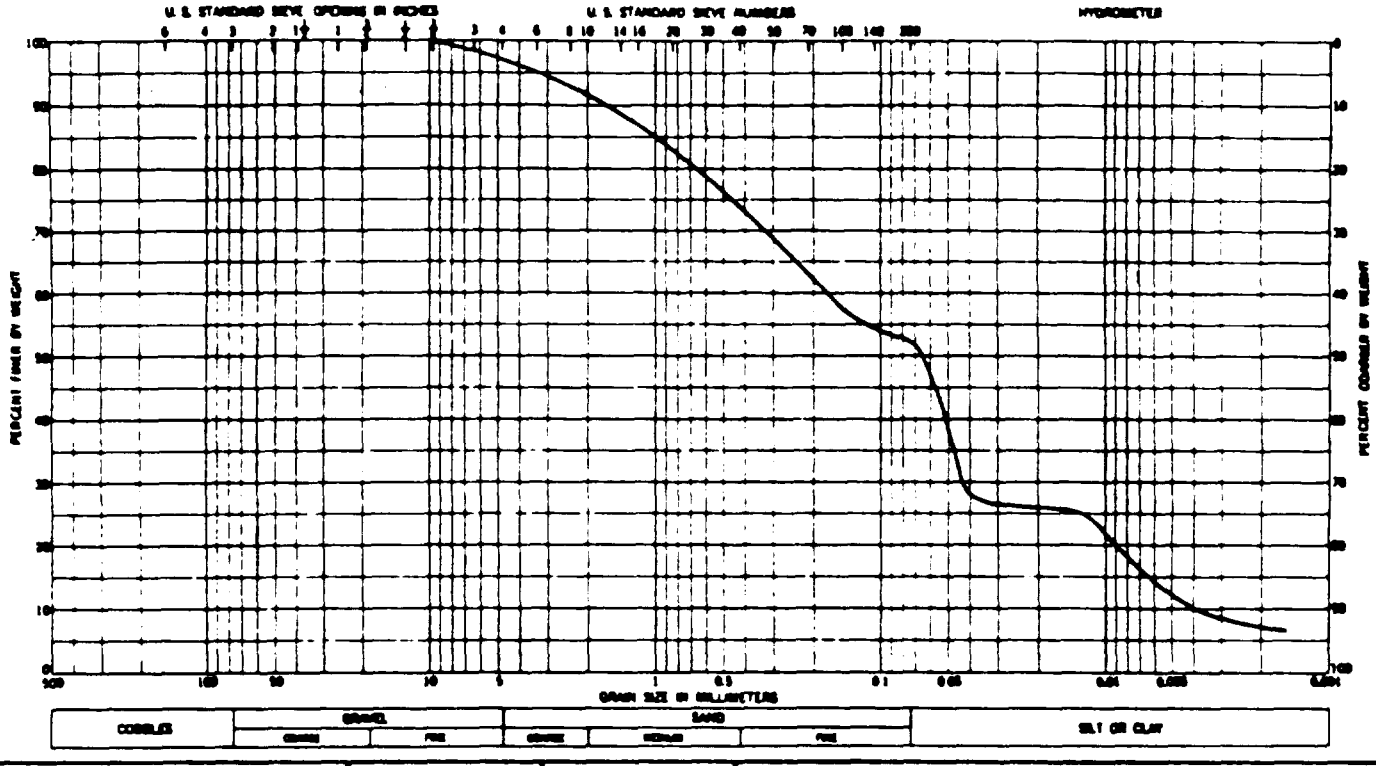
PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1718



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	97.6	
10	2.00	91.5	
20	0.85	83.1	
40	0.425	73.5	
70	0.212	62.4	
100	0.150	57.7	
140	0.106	54.4	
200	0.075	52.5	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 10.9
LIQUID LIMIT 86
PLASTIC LIMIT 44
PLASTICITY INDEX 42
WATER CONTENT (%) 114.5
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 104.17
SPECIFIC GRAVITY 2.48

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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404-421-3400

GRAIN SIZE DISTRIBUTION

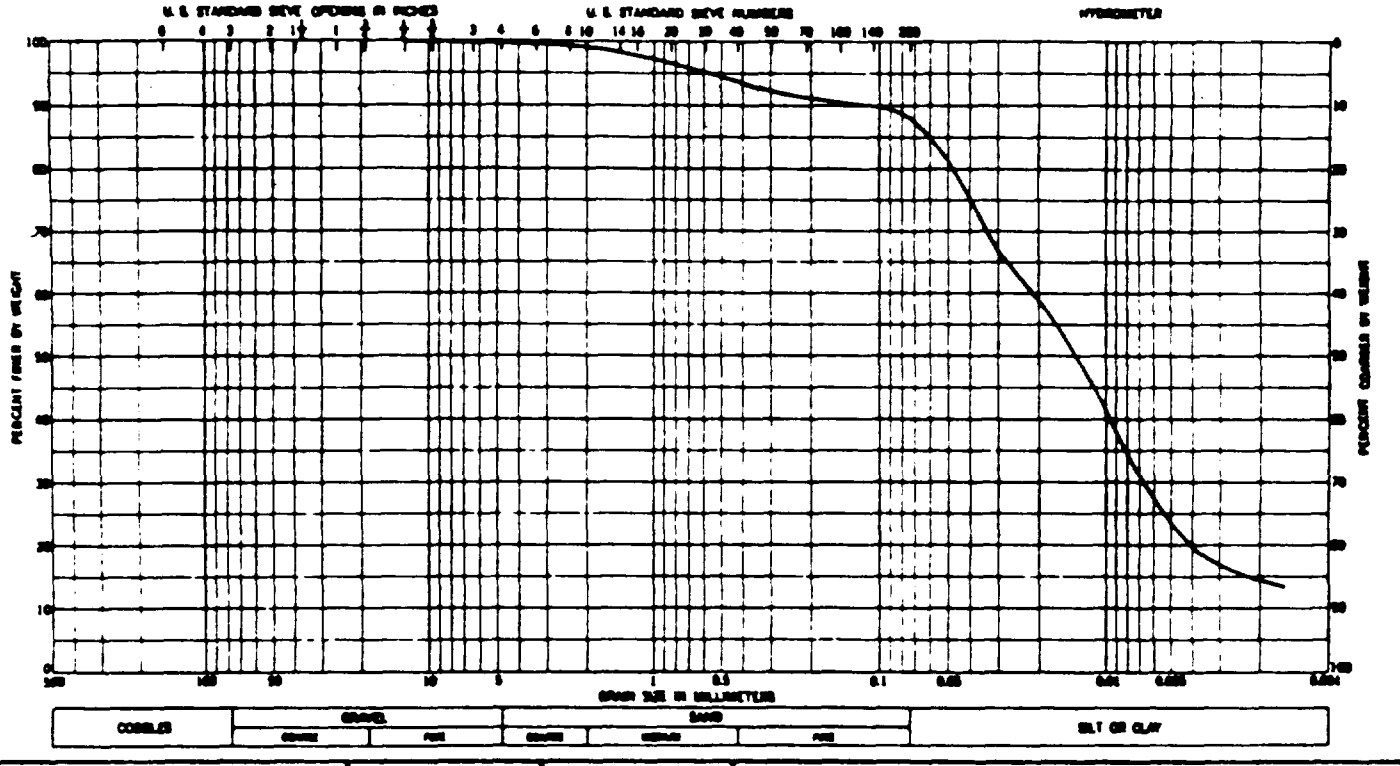
CLIENT Dept. of the Army
New England Division
Corps of Engineers

DATE August 19, 1987

JOB NO. LL7000.41

PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1722



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5	100.0	
3/8"	9.5	99.4	
4	4.75	99.3	
10	2.00	98.8	
20	0.85	96.3	
40	0.425	93.7	
70	0.212	90.9	
100	0.150	90.3	
140	0.106	89.4	
200	0.075	88.7	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 12.2
LIQUID LIMIT 140
PLASTIC LIMIT 66
PLASTICITY INDEX 74
WATER CONTENT (%) 144.3
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 85.93
SPECIFIC GRAVITY 2.53

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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GRAIN SIZE DISTRIBUTION

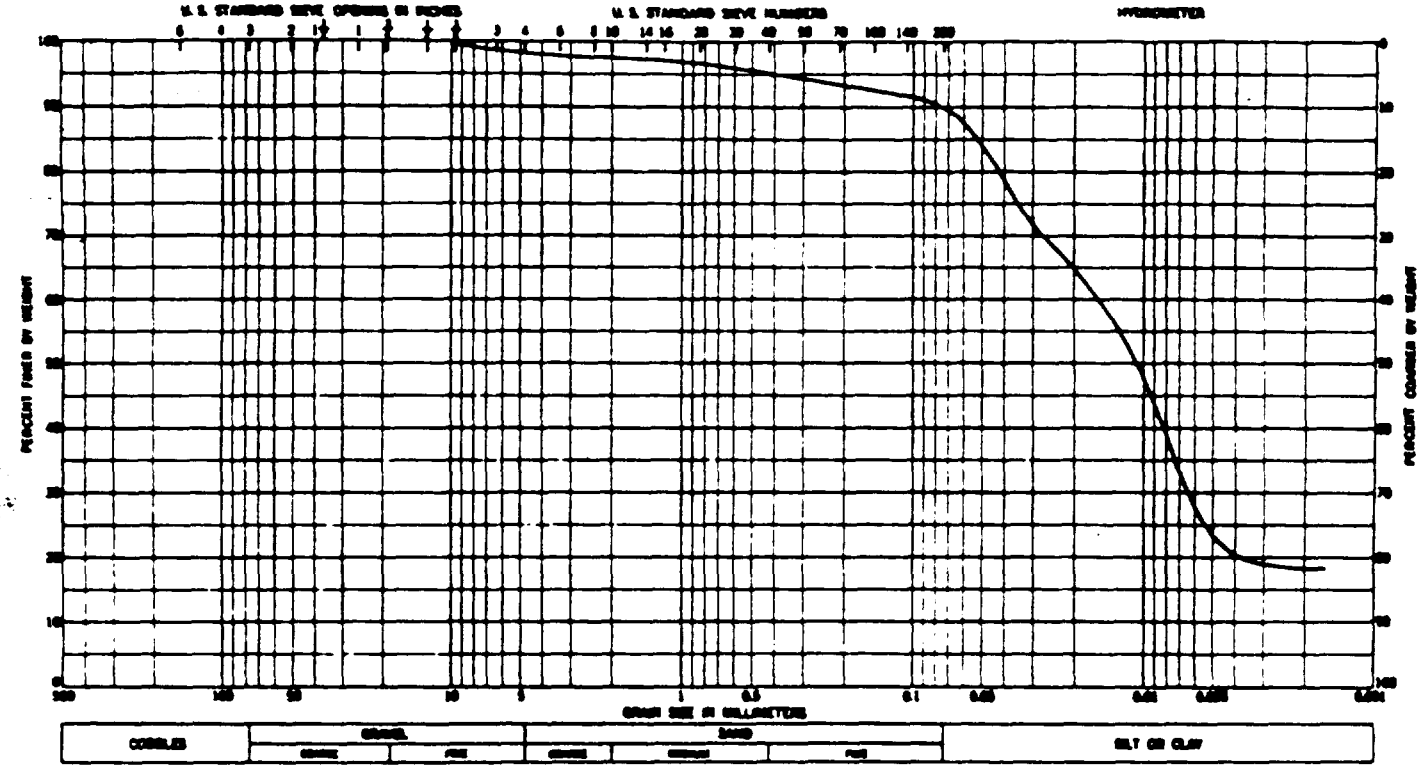
CLIENT Dept. of the Army
New England Division
Corps of Engineers

DATE August 19, 1987

JOB NO. LL7000.41

PROJECT DACW33-87-M-0740/LM-87-53

SAMPLE IDENTIFICATION 1724



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	98.6	
10	2.00	97.8	
20	0.85	96.8	
40	0.425	95.1	
70	0.212	93.3	
100	0.150	92.7	
140	0.106	91.9	
200	0.075	90.7	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 11.1
LIQUID LIMIT 115
PLASTIC LIMIT 54
PLASTICITY INDEX 61
WATER CONTENT (%) 120.2
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 78.79
SPECIFIC GRAVITY 2.55

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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GRAIN SIZE DISTRIBUTION

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DATE August 19, 1987

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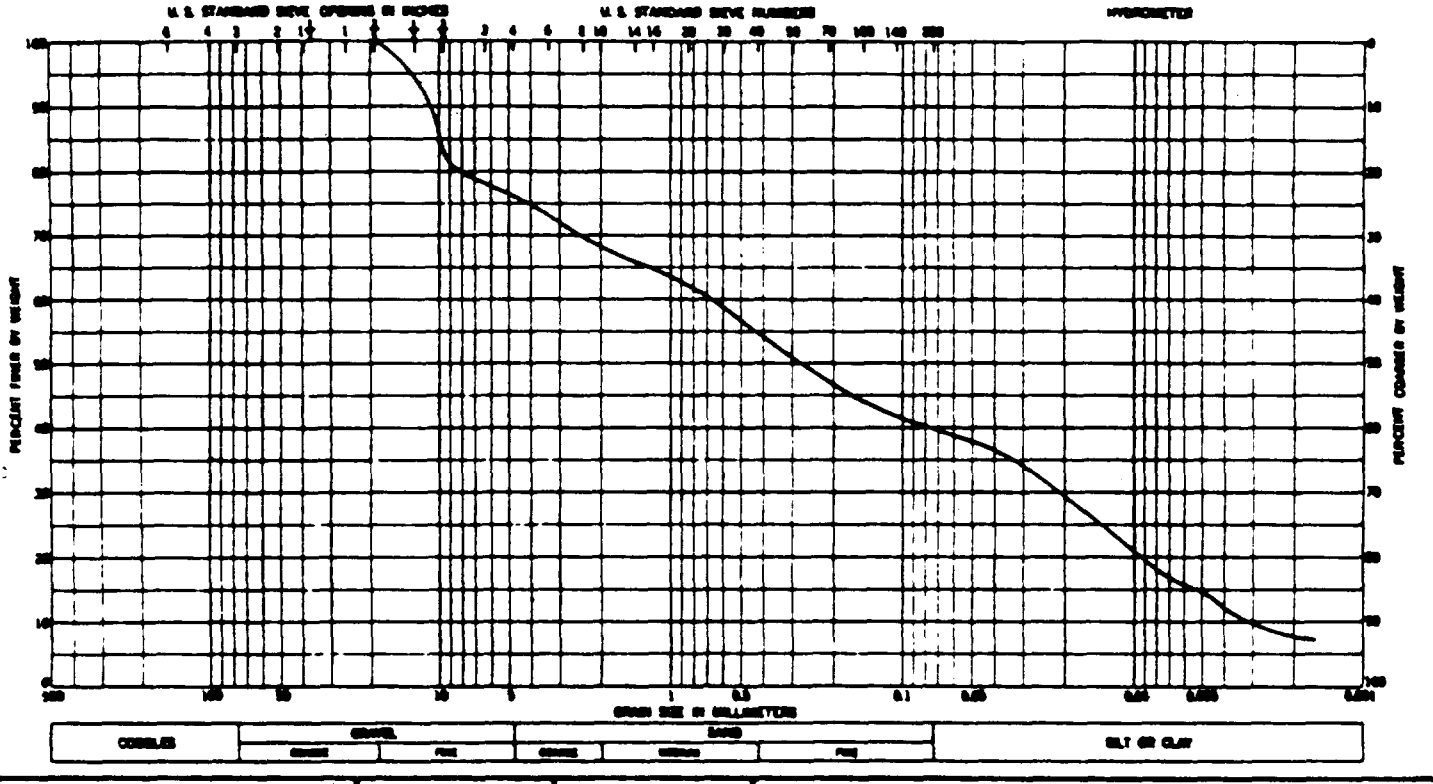
SAMPLE IDENTIFICATION 1732



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0	100.0	
1/2"	12.5	94.9	
3/8"	9.5	81.3	
4	4.75	76.0	
10	2.00	68.0	
20	0.85	61.8	
40	0.425	54.3	
70	0.212	46.6	
100	0.150	43.6	
140	0.106	41.2	
200	0.075	39.3	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 16.2
LIQUID LIMIT 95
PLASTIC LIMIT 68
PLASTICITY INDEX 27
WATER CONTENT (%) 77.5
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 121.09
SPECIFIC GRAVITY 2.32

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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DATE August 19, 1987

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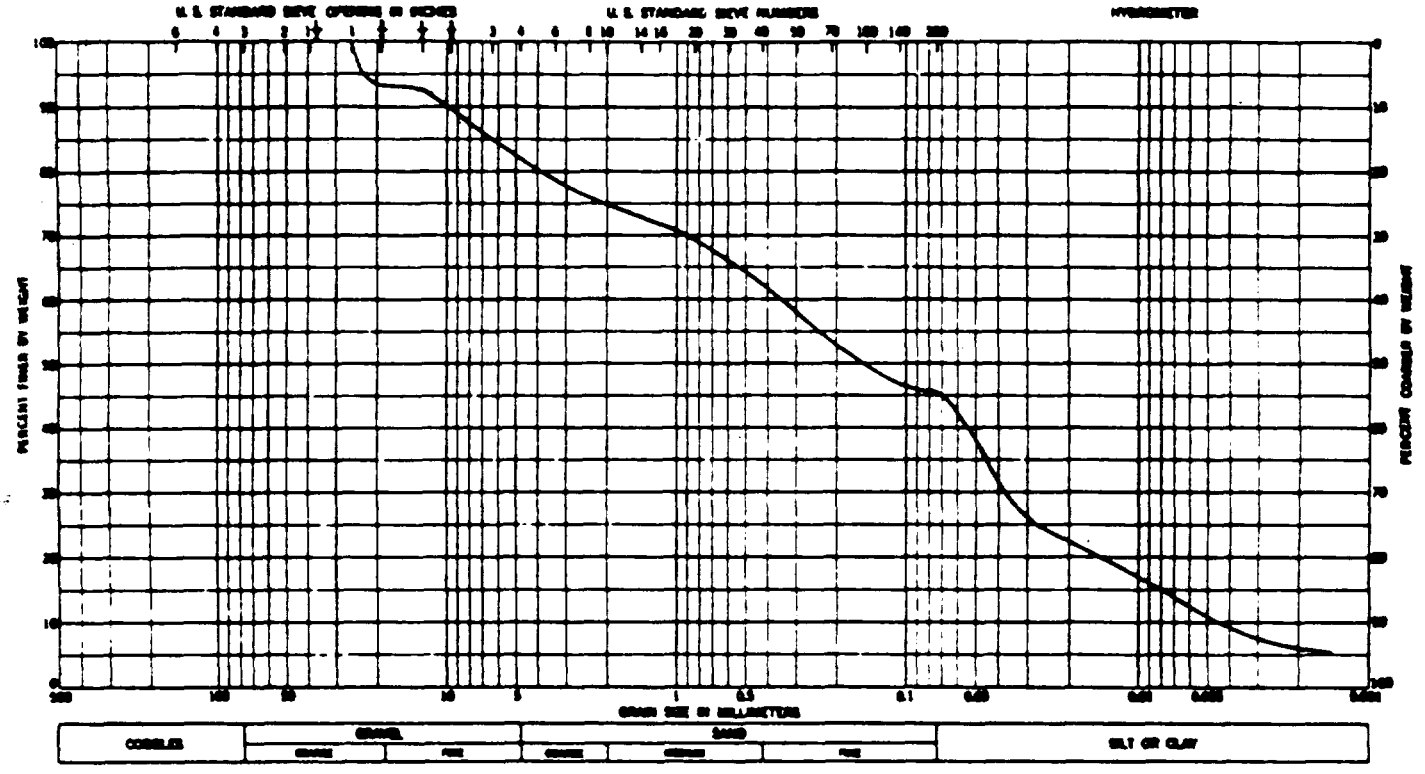
SAMPLE IDENTIFICATION 1736



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4	100.0	
3/4"	19.0	93.1	
1/2"	12.5	93.1	
3/8"	9.5	89.9	
4	4.75	82.0	
10	2.00	74.2	
20	0.85	69.3	
40	0.425	61.9	
70	0.212	52.7	
100	0.150	50.1	
140	0.106	46.6	
200	0.075	45.8	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 13.8
LIQUID LIMIT 82
PLASTIC LIMIT 48
PLASTICITY INDEX 34
WATER CONTENT (%) 70.3
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 141.87
SPECIFIC GRAVITY 2.39

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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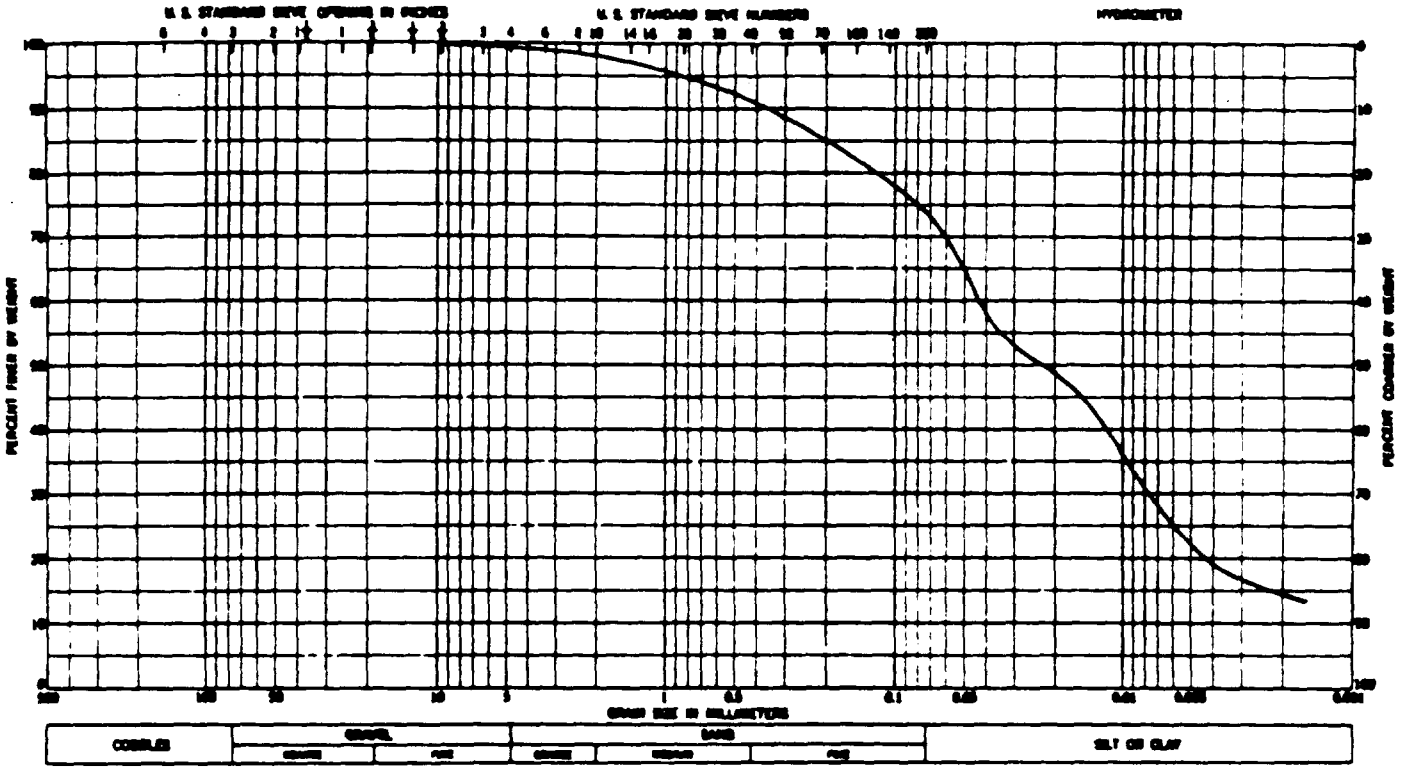
SAMPLE IDENTIFICATION 1740



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.6	
10	2.00	98.9	
20	0.85	95.1	
40	0.425	91.1	
70	0.212	85.0	
100	0.150	82.3	
140	0.106	78.1	
200	0.075	74.0	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 12.9
LIQUID LIMIT 114
PLASTIC LIMIT 53
PLASTICITY INDEX 61
WATER CONTENT (%) 139.6
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 92.51
SPECIFIC GRAVITY 2.42

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

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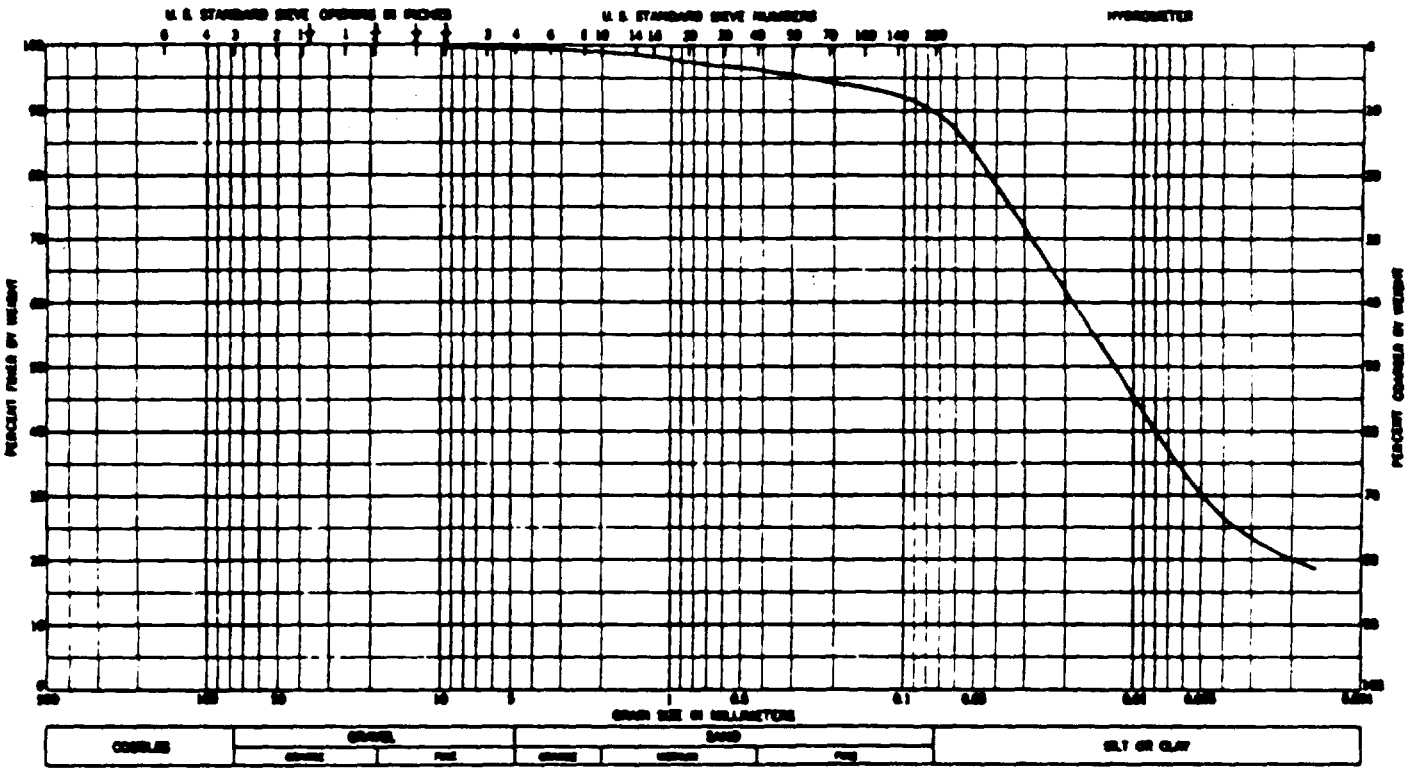
SAMPLE IDENTIFICATION 1742



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1"	25.4		
3/4"	19.0		
1/2"	12.5		
3/8"	9.5	100.0	
4	4.75	99.6	
10	2.00	99.4	
20	0.85	97.6	
40	0.425	96.1	
70	0.212	94.3	
100	0.150	93.5	
140	0.106	92.4	
200	0.075	90.4	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 8.5
LIQUID LIMIT 114
PLASTIC LIMIT 56
PLASTICITY INDEX 58
WATER CONTENT (%) 119.9
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 104.68
SPECIFIC GRAVITY 2.51

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F.

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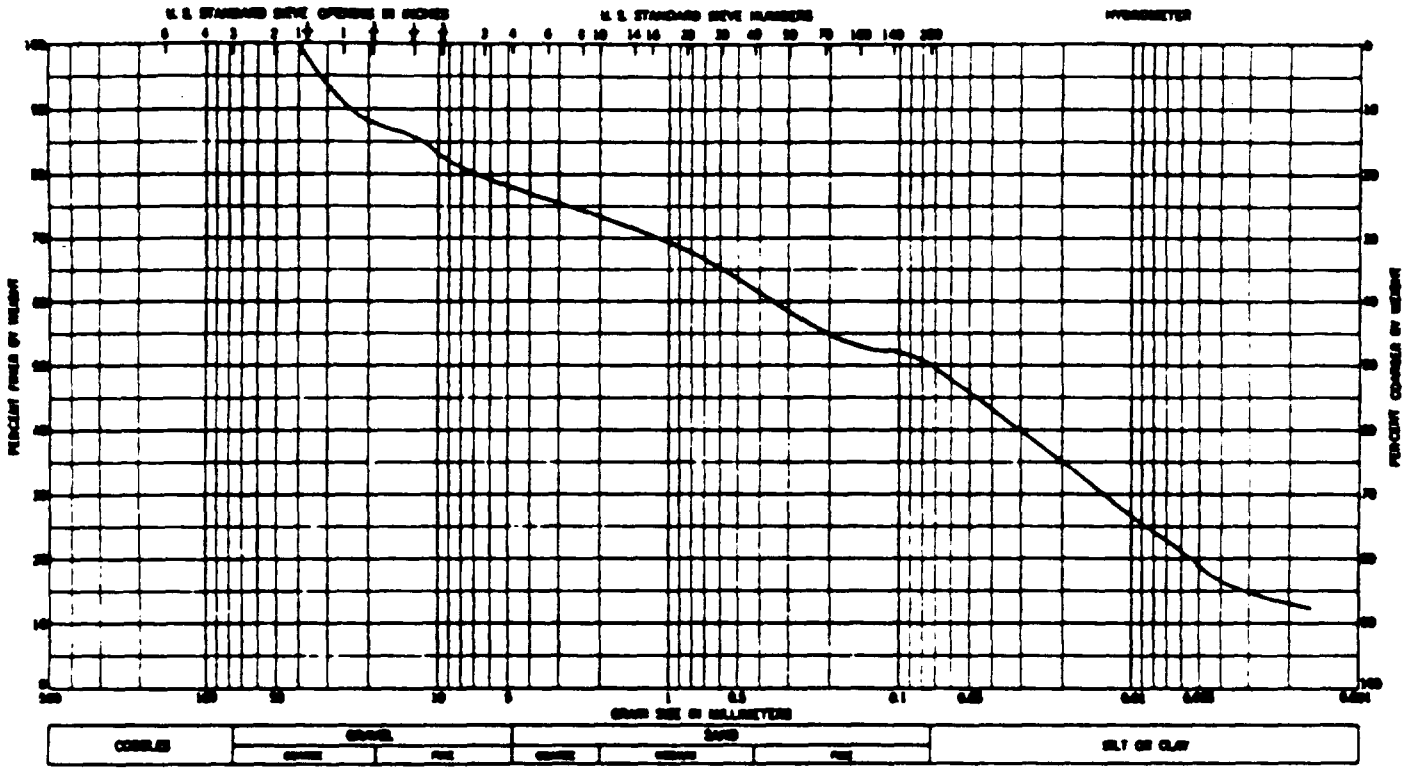
SAMPLE IDENTIFICATION 1760



U.S. STANDARD SIEVE SIZE		PERCENT PASSING	
SIEVE NO.	OPENING IN MILLIMETERS		
1.5"	38.0	100.0	
1"	25.4	90.9	
3/4"	19.0	88.0	
1/2"	12.5	86.2	
3/8"	9.5	82.1	
4	4.75	78.8	
10	2.00	74.2	
20	0.85	67.9	
40	0.425	61.4	
70	0.212	55.5	
100	0.150	53.6	
140	0.106	51.7	
200	0.075	50.1	

EFFECTIVE SIZE
COEFFICIENT OF UNIFORMITY
VOLATILE SOLIDS (%) 14.4
LIQUID LIMIT 94
PLASTIC LIMIT 51
PLASTICITY INDEX 43
WATER CONTENT (%) 66.6
CLASSIFICATION
SIEVE SAMPLE
TOTAL DRY WEIGHT(GRAMS) 144.62
SPECIFIC GRAVITY 2.44

TEST PROCEDURE ASTM D422, D854, D4318
STANDARD METHODS, 16th Ed., 209 F

LAW ENVIRONMENTAL, INC.

M.A. O'Kelley

NEW BEDFORD HARBOR
HOT SPOT SEDIMENT ANALYSIS

Sample	Grid	Depth	Total PCBs (ppm)
3307	7A/JA	24 - 36"	2441.0
3308	7A/JB #2	24 - 36"	729.0
3309	7A/JB #3	24 - 36"	4683.0
3310	7A/JB #4	24 - 36"	1333.0
3311	7A/JA	36 - 38"	3620.0
3312	7A/JB #2	36 - 48"	37.0
3313	7A/JB #3	36 - 48"	3640.0
3314	7A/JB #3	48 - 53"	2010.0
3315	7A/JB #4	36 - 38"	26.4

CORPS OF ENGINEERS U. S. ARMY

NOTE
For general notes see sheet 2 of 3.

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.

DES. BY A. V. L. | DR. BY E. J. K. | CK. BY

SUBMITTED: PROJECT MANAGER
REVIEWED: CHIEF, COAST. ENG./SUR SECT.
APPROVAL RECOMMENDED: CHIEF, DESIGN BRANCH

NEW BEDFORD, MASSACHUSETTS ENGINEERING FEASIBILITY STUDY SUPERFUND SITE PCB SAMPLE SEDIMENT LOCATIONS

PROJECT NO. 110

APPROVED CHIEF, ENGINEERING DIVISION DATE

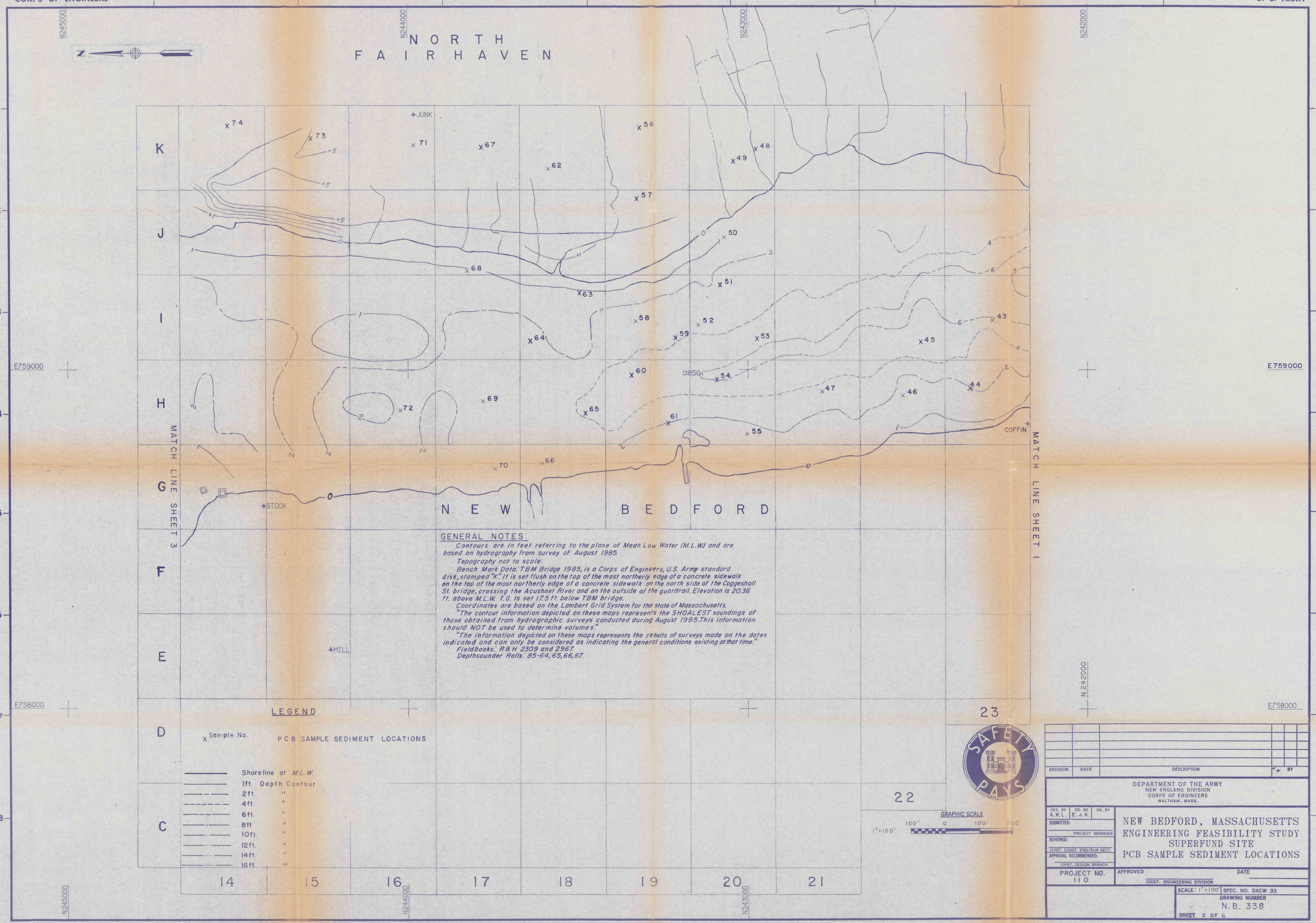
SCALE: 1" = 100' | SPEC. NO. DACW 33

DRAWING NUMBER N.B. 338

SHEET 1 OF 6

SEE NOAA CHART 13230

CORPS OF ENGINEERS — U. S. ARMY



GENERAL NOTES:

Contours are in feet referring to the plane of Mean Low Water (M.L.W.) and are based on hydrography from survey of August 1985.

Topography not to scale.

Bench Mark Data: TBM Bridge 1985, is a Corps of Engineers, U.S. Army standard disk, stamped "K." It is set flush on the top of the most northerly edge of a concrete sidewalk on the top of the most northerly edge of a concrete sidewalk on the north side of the Coggeshall St. bridge, crossing the Acushnet River and on the outside of the guardrail. Elevation is 20.36 ft. above M.L.W. T.G. is set 17.5 ft. below TBM bridge.

Coordinates are based on the Lambert Grid System for the state of Massachusetts.

"The contour information depicted on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 1985. This information should NOT be used to determine volumes."

"The information depicted on these maps represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time."

Fieldbooks: R&H 2309 and 2967.

Depthsounder Rolls: 85-64, 65, 66, 67.

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.

DES. BY A.V.L. | DR. BY E.J.K. | CK. BY

SUBMITTED: PROJECT MANAGER

REVIEWED: CHIEF, COAST. ENG/SUR. SECT.

APPROVAL RECOMMENDED: CHIEF, DESIGN BRANCH

PROJECT NO. 110

NEW BEDFORD, MASSACHUSETTS ENGINEERING FEASIBILITY STUDY SUPERFUND SITE PCB SAMPLE SEDIMENT LOCATIONS

APPROVED — DATE

CHIEF, ENGINEERING DIVISION

SCALE: 1" = 100' | SPEC. NO. DACW 33

DRAWING NUMBER N.B. 338

SHEET 2 OF 6

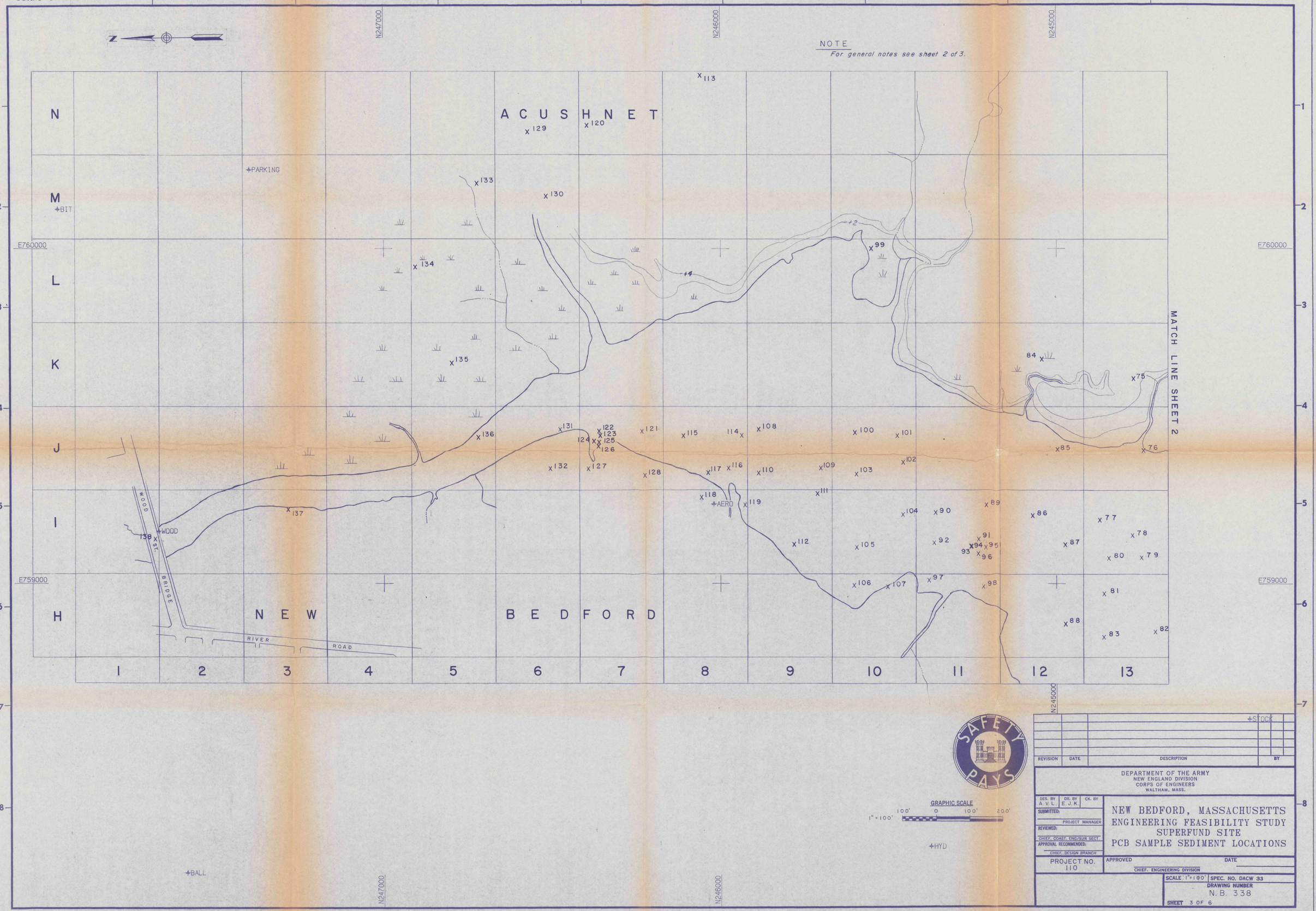
SEE NOAA CHART NO. 13230

CORPS OF ENGINEERS

U. S. ARMY

NOTE

For general notes see sheet 2 of 3.



REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.

DES. BY	DR. BY	CK. BY
A. V. L.	E. J. K.	

SUBMITTED: PROJECT MANAGER

REVIEWED: CHIEF, COAST. ENG/SUR SECT.

APPROVAL RECOMMENDED: CHIEF, DESIGN BRANCH

PROJECT NO. 110

APPROVED CHIEF, ENGINEERING DIVISION DATE

NEW BEDFORD, MASSACHUSETTS ENGINEERING FEASIBILITY STUDY SUPERFUND SITE PCB SAMPLE SEDIMENT LOCATIONS

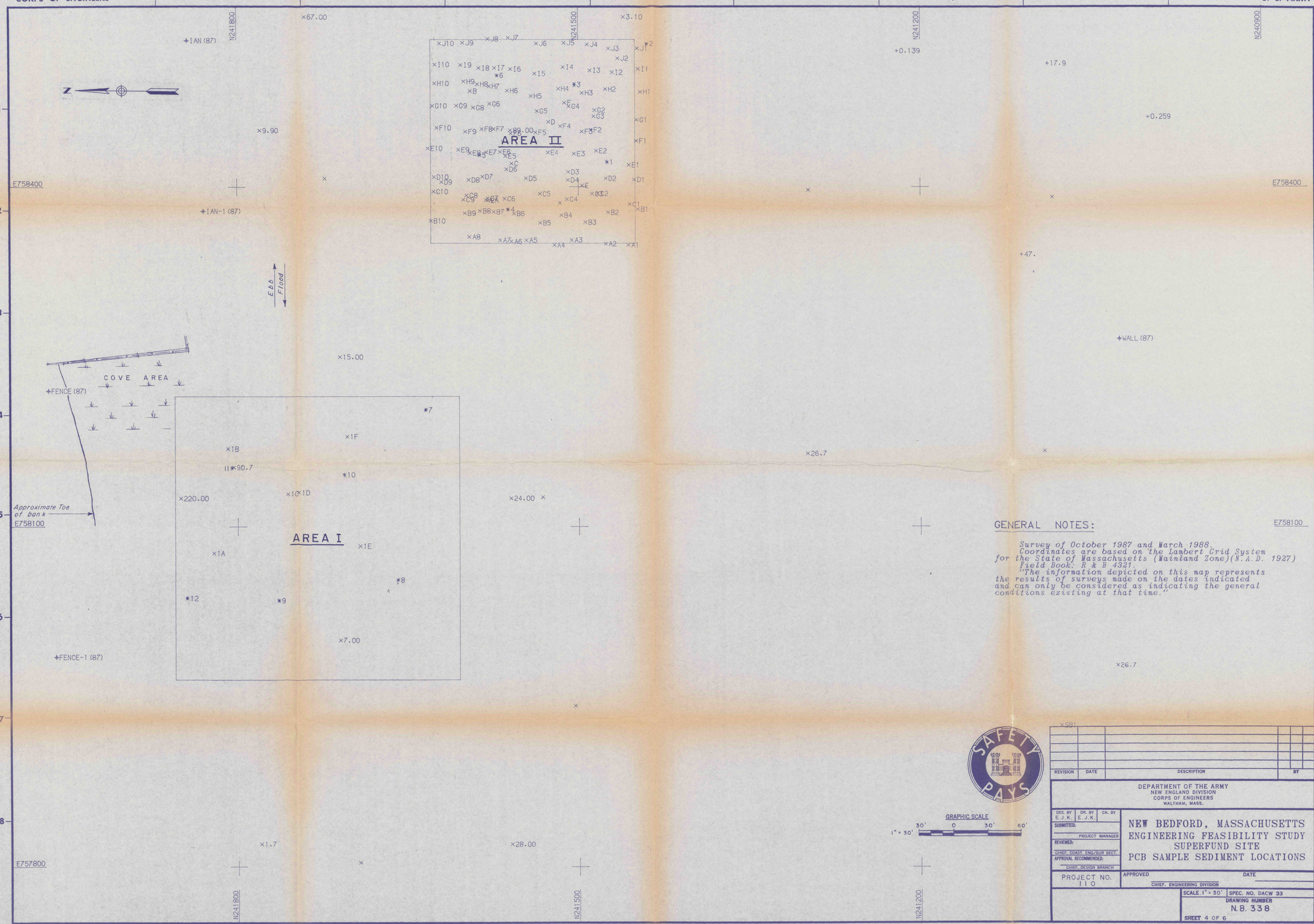
SCALE: 1" = 100' SPEC. NO. DACW 33

DRAWING NUMBER N. B. 338

SHEET 3 OF 6

SEE NOAA CHART NO. 13230

CORPS OF ENGINEERS — U. S. ARMY



SEE NOAA CHART NO. 13230

CORPS OF ENGINEERS — U. S. ARMY

SAMPLE NO.	LAB ID.NO.	STRATUM	GRID LOCATION	STATE COORDINATES North	STATE COORDINATES East	PCB LEVEL
1	1701	0-12	K-35	239400.65	759565.94	188.00
1	1702	12-24	"	"	"	- 0.13
2	1753	0-12	J-35	239386.32	759455.55	8.00
2	1754	12-24	"	"	"	- 0.26
3	1751	1-12	H-35	239340.72	758872.90	38.00
3	1752	12-24	"	"	"	- 0.13
4	1703	0-12	J-34	239503.69	759498.79	35.00
4	1703	12-24	"	"	"	- 0.13
5	1705	0-12	J-34	239483.87	759408.66	96.00
5	1706	12-24	"	"	"	- 0.26
6	1707	0-12	I-34	239491.46	759094.93	233.00
6	1708	12-24	"	"	"	- 1.30
7	9859A	0-12	H-33	239836.94	758926.92	2.42
7	9859C	24-36	"	"	"	0.04
8	9954A	0-12	K-32	240018.55	759621.34	2.56
8	9954B	12-23	"	"	"	0.02
9	9857	0-37	H-32	240053.93	758887.88	*
9	9858	37-73	"	"	"	*
10	9863	0-27	J-29	240786.28	759385.83	*
10	9863	27-63	"	"	"	*
11	1503	0-12	H-29	240826.69	758859.90	27.10
11	1504	12-24	"	"	"	- 2.00
12	9922A	0-15	G-29	240844.38	758736.87	22.60
12	9922B	15-27	"	"	"	0.55
13	1501	0-12	"	240867.30	758567.50	2.10
13	1502	12-24	"	"	"	- 2.00
14	9953A	0-8	K-28	241074.62	759628.73	16.50
14	9953B	8-20	"	"	"	0.06
15	9848A	0-12	I-28	241037.09	759173.67	177.00
15	9848C	24-38	"	"	"	0.02
16	1497	0-12	H-28	241147.01	758837.37	71.50
16	1498	12-24	"	"	"	- 2.00
17	1499	0-12	"	241009.84	758856.20	36.10
17	1500	12-24	"	"	"	- 2.00
18	1493	0-12	G-28	241117.80	758745.90	62.00
18	1494	12-24	"	"	"	- 2.00
19	1495	0-12	"	241000.20	758577.70	53.10
19	1496	12-24	"	"	"	- 2.00
20	1491	0-12	"	241103.00	758568.37	110.00
20	1492	12-24	"	"	"	- 2.00
21	1489	0-12	H-27	241318.26	758794.32	60.00
21	1490	12-24	"	"	"	- 2.00
22	1487	0-12	F-27	241368.82	758442.52	57.50
22	1488	12-24	"	"	"	- 2.00
23	1485	0-12	"	241344.73	785336.64	82.80
23	1486	12-24	"	"	"	- 2.00
24	9912A	0-24	E-27	241299.28	758164.72	26.70
24	9912B	24-33	"	"	"	1.10
25	9950A	0-12	K-26	241556 10	759575.33	42.40
25	9950B	12-22	"	"	"	0.04
26	9908	0-27	H-26	241542.71	758894.08	*
27	*	*	G-26	*	*	*
28	0035	0-50	G-26	241548.35	758645.90	*
29	*	*	G-26	*	*	*
30	0002	0-55	F-26	241516.07	758385.78	*
31	9997	0-38	D-26	241503.62	757942.24	*
31	0015	38-74	"	"	"	*
32	9907A	0-12	H-25	241778.74	758899.24	160.00
32	9907C	24-33	"	"	"	0.16
33	*	*	"	*	*	*
34	0034	0-44	G-25	241744.60	758665.14	*
35	0019	0-40	F-25	241722.64	758407.44	*
36	*	*	E-25	*	*	*
37	9910A	0-12	"	241803.52	758152.23	90.7
37	9910B	12-24	"	"	"	2.08
37	9910C	24-30	E-25	241803.52	758152.23	0.21
38	*	*	"	*	*	*
39	*	*	D-25	*	*	*
40	*	*	"	*	*	*
41	1483	0-12	I-24	241995.88	759071.60	289.20
41	1483	12-24	"	"	"	2.30
42	1481	0-12	H-24	242105.92	758968.69	20.60
42	1482	12-24	"	"	"	54.90
43	9840A	0-24	I-23	242281.31	759145.33	441.00
43	9840B	24-36	"	"	"	0.34
44	1479	0-12	H-23	242366.72	758941.04	332.10
44	1480	12-24	"	"	"	- 2.00
45	1477	0-12	I-22	242491.84	759075.38	428.40
45	1478	12-24	"	"	"	198.20
46	*	*	H-22	242544.21	758923.97	*
47	9869A	0-12	H-21	242782.15	758935.37	448.00
47	9869B	12-24	"	"	"	2.04
47	9869C	24-37	"	"	"	0.19
48	*	*	K-20	242978.01	759650.26	*
49	*	*	"	243040.16	759614.97	*
50	9947A	0-16	J-20	243068.60	759390.80	3.54
51	1473	0-12	I-20	243086.69	759248.24	306.10
51	1474	12-24	"	"	"	- 2.00
52	*	*	"	242926.07	759141.62	*
53	1475	0-12	I-20	242978.23	759094.80	849.90
53	1476	12-24	"	"	"	25.10
54	1471	0-12	H-20	243094.45	758968.11	206.30
54	1472	12-24	"	"	"	1124.40
55	*	*	"	243087.76	758933.72	*
56	*	*	K-19	243313.44	759715.50	*
57	*		K-17	243781.15	759651.11	*
58	9786A	0-13	I-19	243330.11	759142.25	911.00
58	9786C	24-37	"	"	"	0.01
59	1505	0-12	"	243214.01	759092.48	403.00
59	1506	12-24	"	"	"	- 2.00
60	1467	0-12	H-19	243345.62	758979.41	646.70
60	1468	12-24	"	"	"	10.60
61	1469	0-12	"	243234.71	758838.23	370.30
61	1470	12-24	"	"	"	1479.90
62	*	*	K-18	243587.86	759592.40	*
63	1463	0-12	I-18	243495.62	759228.74	50.40
63	1464	12-24	"	"	"	- 2.00
64	1461	0-12	"	243644.37	759081.33	262.60
64	1462	12-24	"	"	"	- 2.00
65	1465	0-12	H-18	243480.18	758873.59	586.10
65	1466	12-24	"	"	"	1201.10
66	0030A	0-12	G-18	243606.59	758722.48	312.00(2)
66	0030B	12-24	"	"	"	1440.00
66	0030C	24-36	"	"	"	375.00
67	*	*	K-17	243781.15	759651.12	*
68	*	*	J-17	*	*	*
69	9877A	0-6	H-17	243781.09	758907.69	499.00
69	9877B	6-18	"	"	"	4.05
69	9877C	18-36	"	"	"	1.15
70	9918A	0-24	G-17	243743.73	758706.54	1147.00(2)
70	9918B	24-38	"	"	"	577.00
70	9918D	45-49	"	"	"	3.31
70	9918E	49-65	"	"	"	5.79
71	*	*	K-16	243982.55	759662.08	*
72	*	*	H-16	244023.06	758880.12	*
73	*	*	K-15	244282.86	759679.52	*
74	*	*	K-14	244529.32	759714.31	*
75	*	*	K-13	244773.65	759613.40	*
76	9941A	0-8	J-13	244746.75	759398.20	139.00(2)
76	9941B	8-20	"	"	"	0.14
77	1723	0-12	I-13	244872.59	759192.83	901.00
77	1724	12-24	"	"	"	- 0.13
78	*	*	"	*	*	*
79	1727	0-12	"	244749.99	759078.58	1827.00
79	1728	12-24	"	"	"	- 0.65
80	1725	0-12	"	244849.06	759076.80	1697.00
80	1726	12-24	"	"	"	- 13.00
81	1665	0-12	H-13	244860.40	758971.92	1667.00
81	1666	12-24	"	"	"	- 2.60
82	1663	0-12	"	244708.75	758857.09	1345.00
82	1664	12-24	"	"	"	- 0.01
83	1661	0-12	"	244861.29	758841.82	85.00
83	1662	12-24	"	"	"	- 0.26
84	*	*	K-12	245044.78	759671.93	*
85	0058A	0-5	J-12	244999.50	759400.75	173.00(2)
86	0047A	0-12	I-12	245066.04	759201.69	1370.00
86	0047B	12-24	"	"	"	73.00
87	1687	0-12	"	244976.53	759114.71	5762.00
87	1688	12-24	"	"	"	201.00
88	0042A	0-12	H-12	244972.12	758885.65	8370.00
88	0042B	12-24	"	"	"	3740.00
89	1679	0-12	I-11	245211.66	759236.40	5614.00
89	1680	12-24	"	"	"	354.00
90	1677	0-12	"	245362.13	759212.35	18366.00
90	1678	12-24	"	"	"	1086.00
91	1695	0-12	"	245233.58	759131.61	3892.00
91	1696	12-24	"	"	"	2.00
92	1675	0-12	"	245365.84	759122.82	24652.00
92	1676	12-24	"	"	"	2.90
93	*	*	"	245257.09	759113.41	*
94	1693	0-12	I-11	245254.95	759113.68	5223.00
94	1694	12-24	"	"	"	9.00
95	1689	0-12	"	245213.88	759108.86	4324.00
95	1690	12-24	"	"	"	31.00
96	1691	0-12	"	245235.58	759090.72	9842.00
96	1692	12-24	"	"	"	0.05
97	1673	0-12	H-11	245381.82	759012.19	3371.00
97	1674	12-24	"	"	"	128.00
98	1671	0-12	"	245220.02	758992.36	2619.00
98	1672	12-24	"	"	"	0.60
99	9956A	0-11	L-10	245553.21	760005.80	318.00
99	9956C	24-36	"	"	"	0.08
100	0055A	0-12	J-10	245600.89	759455.29	8560.00
100	0055B	12-24	"	"	"	0.74
101	1719	0-12	"	245476.35	759444.48	1246.00
101	1720	12-24	"	"	"	1.00
102	1717	0-12	"	245458.96	759363.84	12932.00
102	1718	12-24	"	"	"	7.00
103	1715	0-12	"	245596.79	759326.75	6760.00
103	1716	12-24	"	"	"	3.00
104	1685	0-12	I-10	245459.82	759206.25	1631.00
104	1686	12-24	"	"	"	8.00
105	1681	0-12	"	245596.71	759108.93	1868.00
105	1682	12-24	"	"	"	- 0.26
106	1709	0-12	H-10	245607.03	758996.72	810.00
106	1710	12-24	"	"	"	- 0.13
107	1711	0-12	"	245505.29	758991.13	34.00
107	1712	12-24	"	"	"	38.00
108	1743	0-12	J-9	245866.18	759463.65	814.00
108	1744	12-24	"	"	"	- 1.30
109	1713	0-12	"	245702.48	759346.85	1575.00
109	1714	12-24	"	"	"	302.00
110	1741	0-12	"	245887.16	759331.15	1293.00
110	1742	12-24	"	"	"	- 0.65
111	*	*	I-9	245784.61	759119.62	*
112	*	*	I-9	245710.55	759265.14	*
113	*	*	N-8	246061.96	760514.44	*
114	1745	0-12	J-8	245937.76	759444.69	628.00
114	1746	12-24	"	"	"	- 0.13
115	1747	0-12	"	246112.24	759445.01	4040.00
115	1748	12-24	"	"	"	- 0.65
116	1739	0-12	"	245977.52	759345.18	4388.00
116	1740	12-24	"	"	"	1246.00
117	9938A	0-24	"	246036.60	759330.04	2540.00
117	9938B	24-32	"	"	"	1.22
118	1735	0-12	I-8	246057.54	759256.26	616.00
118	1736	12-24	"	"	"	6.30
119	1737	0-12	"	245927.68	759233.97	2274.00
119	1738	12-24	"	"	"	5.60
120	*	*	H-7	*	*	*
121	1749	0-12	J-7	246233.80	759458.86	23140.00
121	1750	12-24	"	"	"	2823.00
122	1761	0-12	"	246363.00	759456.71	102099.00
122	1762	12-24	"	"	"	11386.00
123	1755	0-12	"	246349.86	759441.64	71699.00
123	1756	12-24	"	"	"	193.00
124	1759	0-12	"	246376.43	759426.53	66314.00
124	1760	12-24	"	"	"	42277.00
125	1757	0-12	"	246363.41	759421.50	73105.00
125	1758	12-24	"	"	"	27304.00
126	0052A	0-1	"	246362.82	759411.04	21800.00
126	0052C	5.5-6.5	"	"	"	76100.00(2)
126	0052D	12-13	"	"	"	54000.00
126	0052G	30-40	"	"	"	92.30
127	1731	0-12	"	246393.60	759342.94	34334.00
127	1732	12-24	"	"	"	45073.00
128	1733	0-12	"	246224.11	759323.26	1607.00
128	1734	12-24	"	"	"	2.70
129	*	*	N-6	246575.34	760343.03	*
130	9965A	0-24	M-6	246518.18	760155.20	607.00
130	9965B	24-31	"	"	"	0.35
131	1763	0-12	J-6	246481.03	759463.21	5598.00
131	1764	12-24	"	"	"	12.00
132	1729	0-12	"	246506.75	759344.14	87.00
132	1730	12-24	"	"	"	- 0.65
133	*	*	M-5	246723.35	760192.80	*
134	*	*	L-5	246908.50	759946.22	*
135	9949A	0-12	K-5	246801.63	759657.53	440.00
135	9949B	12-24	"	"	"	2.34
135	9949C	24-33	"	"	"	0.05(2)
136	9934A	0-24	J-5	246716.11	759434.79	282.00
136	9934B	24-36	"	"	"	0.20
137	9925A	0-18	I-3	247283.93	759216.83	938.00
137	9925B	18-28	"	"	"	0.22
138	1765	0-12	I-1	247682.53	759135.53	52.00
138	1766	12-24	"	"	"	1.10

NOTE: * Indicates missing data
(2) " Combined samples

SAFETY PAYS

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.

DES. BY | DR. BY | CK. BY
SUBMITTED: PROJECT MANAGER
REVIEWED: CHIEF, COAST. ENG/SUR SECT.
APPROVAL RECOMMENDED: CHIEF, DESIGN BRANCH

PROJECT NO. 110

NEW BEDFORD, MASSACHUSETTS ENGINEERING FEASIBILITY STUDY SUPERFUND SITE P C B SAMPLE SEDIMENT DATA

APPROVED — DATE
CHIEF, ENGINEERING DIVISION

SCALE | SPEC. NO. DACW 33
DRAWING NUMBER N.B. 338
SHEET 5 OF 6

SEE NOAA CHART 13230