FIELD BORING LOG

PROJECT NO: 03-859-019
PROJECT NAME: Matagorda Island
CLIENT:
DRILL CONTRACTOR: TRI

BORING NO: 04-188
DATE: 9/30/04
TECHNICIAN: G. Love
DRILL EQUIPMENT: Buggy

WATER LEVEL DATA:

TIME (MIN)	T.O.W. (FT)	T.O.	TIME
5	4.0	5.0	11:11
10	Caving	4.0	11:16
15	Caving	4.0	11:21
E.O.D.			
24 HOURS			

FREE WATER DEPTH: 5.0
METHOD OF ADVANCE:
AUGER 0 TO 5
WASH 5 TO 50
TIME BORING BEGAN: 11:04
TIME BORING END: 1:53

	DEPTH(FT)	SAMPLE SYMBOL	CORE(C) JAR(J) BAG (B)	HAND PENETROMETER READING/ BLOW COUNT	RECOVERY IN INCHES	CONSISTENCY	COLOR	MINOR MATERIAL	MAJOR MATERIAL	CHARACTERISTICS OR MODIFICATIONS
1			J				T SP		SA	trace gravel
✓ 2	5	X	J	1/5/11		M-D	T SP		SA	shell fragment
✓ 3	10	X	J	11/17/24		Dense	T SW		SA	" " small Rocks trace gravel
✓ 4	15	X	J	9/19/37		V-Dense	T G	SM	SA	" " " " trace gravel
✓ 5	20	X	J	9/21/27		Dense	G SM		SA	" "
✓ 6	25	X	J	45/24/14		Dense	G SW	SA		shell fragments all shells, trace gravel
✓ 7	30	X	J	9/19/32		V-Dense	G SW	SA		" " trace grave

FIELD BORING LOG

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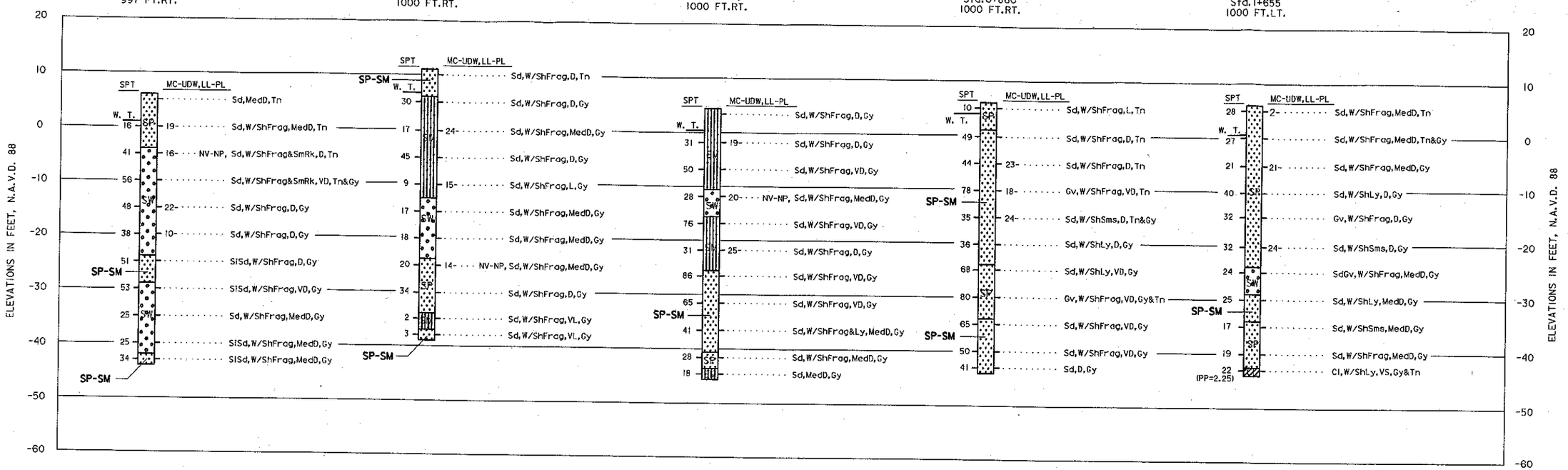
TECHNICIAN: G. Lum
DRILL EQUIPMENT: Buggy

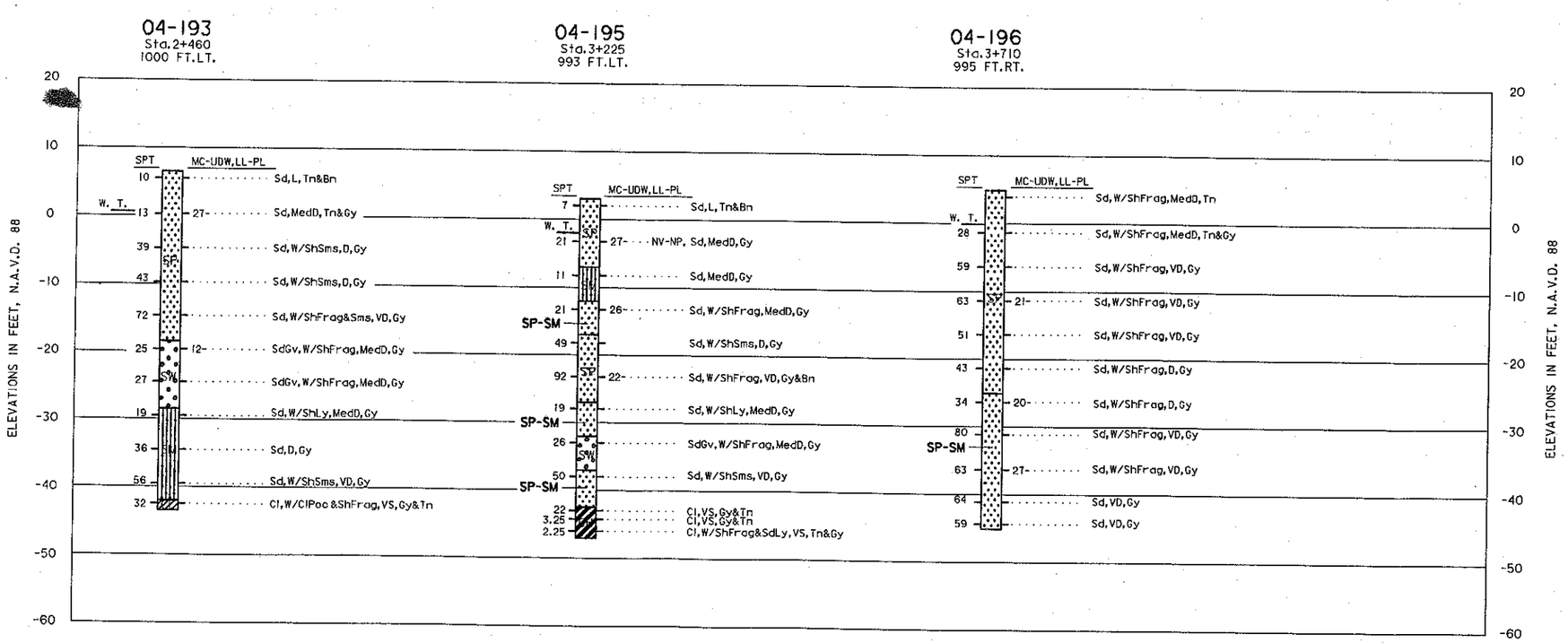
WATER LEVEL DATA:

TIME (MIN)	T.O.W. (FT)	T.O.	TIME
5			
10			
15			
E.O.D.			
24 HOURS			

FREE WATER DEPTH:
METHOD OF ADVANCE:
AUGER ——— TO ———
WASH ——— TO ———
TIME BORING BEGAN:
TIME BORING END:

	DEPTH(FT)	SAMPLE SYMBOL	CORE(C) JAR(J) BAG (B)	HAND PENETROMETER READING/ BLOW COUNT	RECOVERY IN INCHES	CONSISTENCY	COLOR	MINOR MATERIAL	MAJOR MATERIAL	CHARACTERISTICS OR MODIFICATIONS
B ✓	35	X	J	17/21/32		V-Dense	G SP SM	SA		shell fragment little root fragments
9 ✓	40	X	J	9/10/15		m-D	G SW		SA	shell fragment, fn gravel
10 ✓	45	X	J	7/9/16		m-D	G SW	SA		shell fragment fc gravel
	50	X		11/12/22		m-D	G SP SM	SA		" " "





NOTE:
SEE SHEET F-2 FOR BORING NOTES AND LEGEND.

INVITATION NO.
W912HY-
04-B-00

US Army Corps of Engineers
Galveston District

Drawn by P.N.	Date FEBRUARY, 2005	Rev. —	
Designed by J.D.			
Checked by J.D.	Scale AS SHOWN		
Submitted by	Approval/Recommended DAVID B. CAMPBELL, P.E. Chief, Contract/Structure Section		
Approved by			

U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

PREPARED UNDER THE DIRECTION OF
STEVEN P. HAUSTEIN, COL, C.E.

GULF INTRACOASTAL WATERWAY, TEXAS
MATAGORDA SHIP CHANNEL

LOGS OF BORINGS

Drawing No.
F-1
Sheet X of X
File No.

...\Projects\iww\Matagorda\F01.dgn 02/07/2005 10:37:37 AM

< 5 SP
> 12 SM
SP-SM

Project No. 03-859-026 Client: United States Army Corps of Engineers

Project: Matagorda Ship Channel; Contract No. DACW64-03-D-0008; Delivery Order No. 0026

Boring No.	Sample Number	Sample Depth (ft)	Soil Description	USCS	Water Content (%)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)
04-188									
	2	5-6.5	Light gray and tan POORLY GRADED SAND with SILT; traces of shell	SP	18.9				
	3	10-11.5	Light gray and tan WELL GRADED SAND with shells	SW	15.5	NV	NP	NP	2.4
	5	20-21.5	Gray SILTY SAND	SM	22.0				
	6	25-26.5	Gray and light gray WELL GRADED SAND with GRAVEL	SW	9.7				1.9
04-189									
	3	10-11.5	Gray SILTY SAND	SM	24.2				
	5	20-21.5	Gray and light gray SILTY SAND; mostly shell	SM	15.4				
	8	35-36.5	Gray and light gray POORLY GRADED SAND with GRAVEL	SP	14.0	NV	NP	NP	1.4
04-190									
	2	5-6.5	Gray and tan SILTY SAND	SM	19.0				
	4	15-16.5	Gray WELL GRADED SAND with GRAVEL	SW	19.9	NV	NP	NP	2.4
	6	25-26.5	Gray SILTY SAND with shells	SM	24.7				
04-191									
	3	10-11.5	Tan SILTY SAND with shells	SM	22.5				
	4	15-16.5	Tan POORLY GRADED SAND	SP	17.9				1.0
	5	20-21.5	Light gray and gray SILTY SAND with shells	SM	23.7				
04-192									
	1	0-1.5	Tan SANDY SILT with GRAVEL	ML	1.7				
	3	10-11.5	Gray POORLY GRADED SAND; traces of shells	SP	20.6				2.7
	6	25-26.5	Gray POORLY GRADED SAND	SP	24.1				3.2
04-193									
	2	5-6.5	Gray SILTY SAND	SM	26.8				
	6	25-26.5	Gray WELL GRADED SAND with GRAVEL and SHELLS	SW	11.8				3.3
04-194									
	3	10-11.5	Gray POORLY GRADED SAND with SILT; traces of shell	SP-SM	29.2	NV	NP	NP	9.2
	5	20-21.5	Gray POORLY GRADED SAND with SILT	SP-SM	22.8				
	7	30-31.5	Gray POORLY GRADED SAND with SILT	SP-SM	20.9				
04-195									
	2	5-6.5	Gray POORLY GRADED SAND	SP	26.6	NV	NP	NP	3.0
	4	15-16.5	Gray SILTY SAND	SM	25.7				
	6	25-26.5	Gray POORLY GRADED SAND with SILT	SP-SM	21.7				
04-196									
	4	15-16.5	Gray SILTY SAND	SM	21.1				
	7	30-31.5	Gray SILTY SAND; clay pockets and traces of shells	SM	20.0				
	9	40-41.5	Gray SANDY SILT; traces of shells	ML	26.9				
04-197									
	2	5-6.5	Gray SILTY SAND; traces of shells	SM	26.4	NV	NP	NP	14.9
	4	15-16.5	Gray SILTY SAND	SM	21.3				
	7	30-31.5	Gray SILTY SAND	SM	19.9				
04-198									
	2	5-6.5	Gray SILTY SAND	SM	23.6				47.5
	3	10-11.5	Gray SILTY SAND; traces of shells	SM	18.4				

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< 5 SP
> 12 SM
SP-SM

Project No. 03-859-026 Client: United States Army Corps of Engineers

Project: Matagorda Ship Channel; Contract No. DACW64-03-D-0008; Delivery Order No. 0026

Boring No.	Sample Number	Sample Depth (ft)	Soil Description	USCS	Water Content (%)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)
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	2	5-6.5	Light gray and tan POORLY GRADED SAND with SILT; traces of shell	SP	18.9				
	3	10-11.5	Light gray and tan WELL GRADED SAND with shells	SW	15.5	NV	NP	NP	2.4
	5	20-21.5	Gray SILTY SAND	SM	22.0				
	6	25-26.5	Gray and light gray WELL GRADED SAND with GRAVEL	SW	9.7				1.9
04-189									
	3	10-11.5	Gray SILTY SAND	SM	24.2				
	5	20-21.5	Gray and light gray SILTY SAND; mostly shell	SM	15.4				
	8	35-36.5	Gray and light gray POORLY GRADED SAND with GRAVEL	SP	14.0	NV	NP	NP	1.4
04-190									
	2	5-6.5	Gray and tan SILTY SAND	SM	19.0				
	4	15-16.5	Gray WELL GRADED SAND with GRAVEL	SW	19.9	NV	NP	NP	2.4
	6	25-26.5	Gray SILTY SAND with shells	SM	24.7				
04-191									
	3	10-11.5	Tan SILTY SAND with shells	SM	22.5				
	4	15-16.5	Tan POORLY GRADED SAND	SP	17.9				1.0
	5	20-21.5	Light gray and gray SILTY SAND with shells	SM	23.7				
04-192									
	1	0-1.5	Tan SANDY SILT with GRAVEL	ML	1.7				
	3	10-11.5	Gray POORLY GRADED SAND; traces of shells	SP	20.6				2.7
	6	25-26.5	Gray POORLY GRADED SAND	SP	24.1				3.2
04-193									
	2	5-6.5	Gray SILTY SAND	SM	26.8				
	6	25-26.5	Gray WELL GRADED SAND with GRAVEL and SHELLS	SW	11.8				3.3
04-194									
	3	10-11.5	Gray POORLY GRADED SAND with SILT; traces of shell	SP-SM	29.2	NV	NP	NP	9.2
	5	20-21.5	Gray POORLY GRADED SAND with SILT	SP-SM	22.8				
	7	30-31.5	Gray POORLY GRADED SAND with SILT	SP-SM	20.9				
04-195									
	2	5-6.5	Gray POORLY GRADED SAND	SP	26.6	NV	NP	NP	3.0
	4	15-16.5	Gray SILTY SAND	SM	25.7				
	6	25-26.5	Gray POORLY GRADED SAND with SILT	SP-SM	21.7				
04-196									
	4	15-16.5	Gray SILTY SAND	SM	21.1				
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	2	5-6.5	Gray SILTY SAND	SM	23.6				47.5
	3	10-11.5	Gray SILTY SAND; traces of shells	SM	18.4				

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Particle Size Analysis (ASTM D 422)

	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	0.0	21.1	14.3	30.3	31.9	2.4	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	DESCRIPTION	USCS
○	04-188	3	10-11.5	Light gray and tan WELL GRADED SAND with shells	SW

Particle Size Analysis (ASTM D 422)

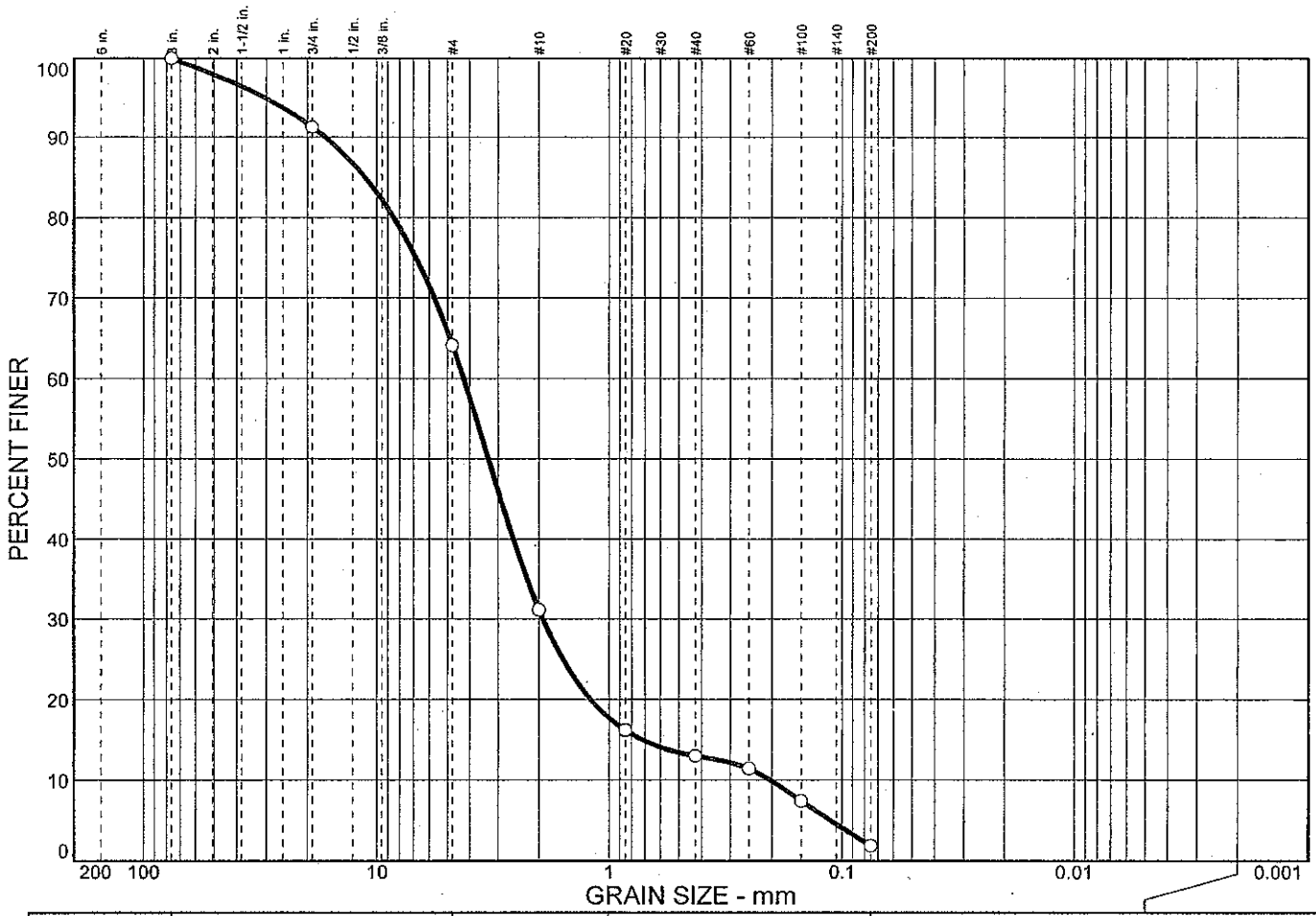
Tolunay-Wong Engineers, Inc.

Client: United States Army Corps of Engineers

Project: Matagorda Ship Channel; Contract No. DACW64-03-D-0008; Delivery Order No. 0026

Project No.: 03-859-026

Particle Size Analysis (ASTM D 422)



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	8.7	27.2	33.0	18.1	11.1	1.9	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	DESCRIPTION	USCS
○	04-188	6	25-26.5	Gray and light gray WELL GRADED SAND with GRAVEL	SW

Particle Size Analysis (ASTM D 422)

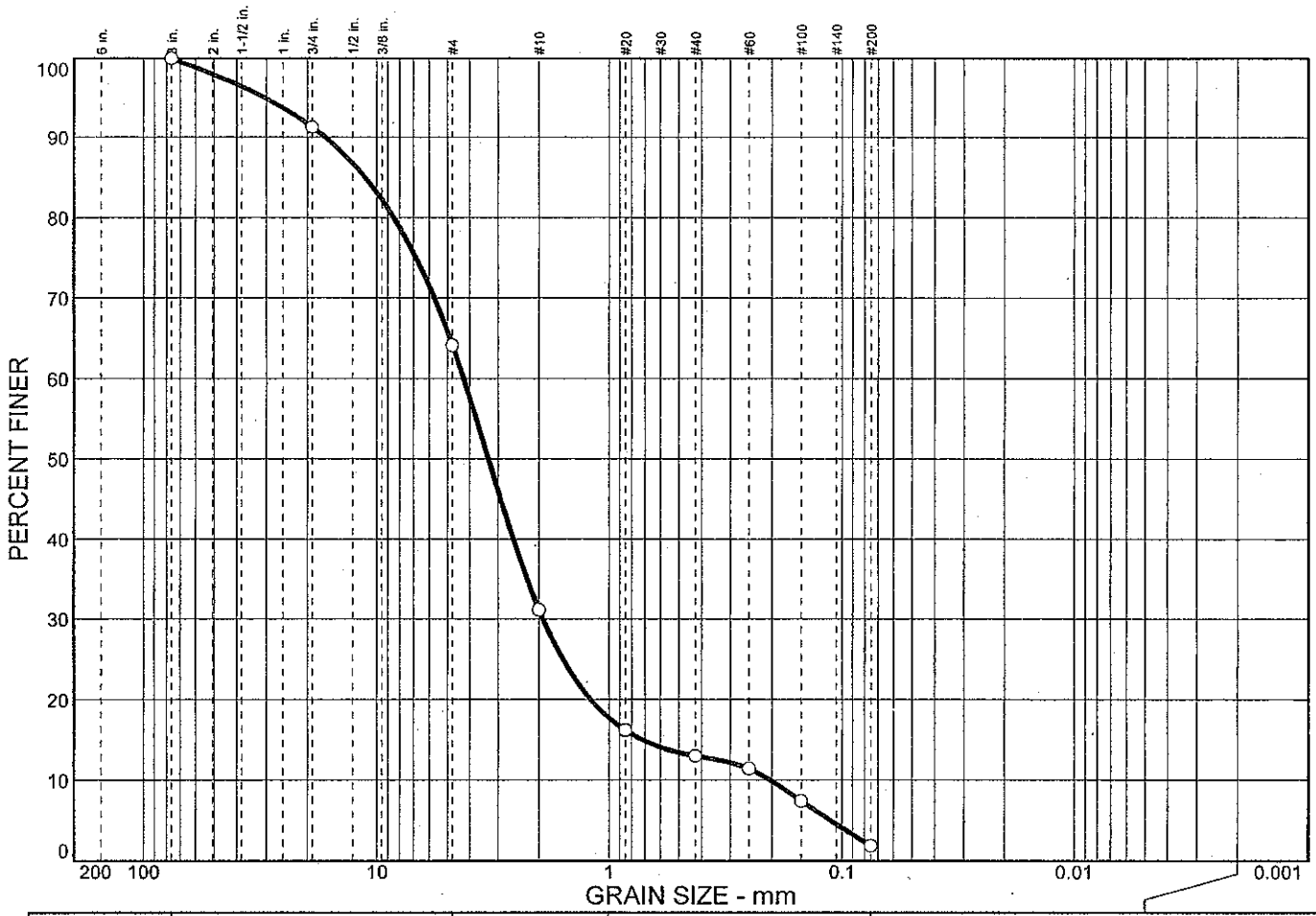
Tolunay-Wong Engineers, Inc.

Client: United States Army Corps of Engineers

Project: Matagorda Ship Channel; Contract No. DACW64-03-D-0008; Delivery Order No. 0026

Project No.: 03-859-026

Particle Size Analysis (ASTM D 422)



	% + 3"	% GRAVEL		% SAND			% FINES	
		CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○	0.0	8.7	27.2	33.0	18.1	11.1	1.9	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	DESCRIPTION	USCS
○	04-188	6	25-26.5	Gray and light gray WELL GRADED SAND with GRAVEL	SW

Particle Size Analysis (ASTM D 422)

Tolunay-Wong Engineers, Inc.

Client: United States Army Corps of Engineers

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