

Project No. 03-859-026

Client: United States Army Corps of Engineers

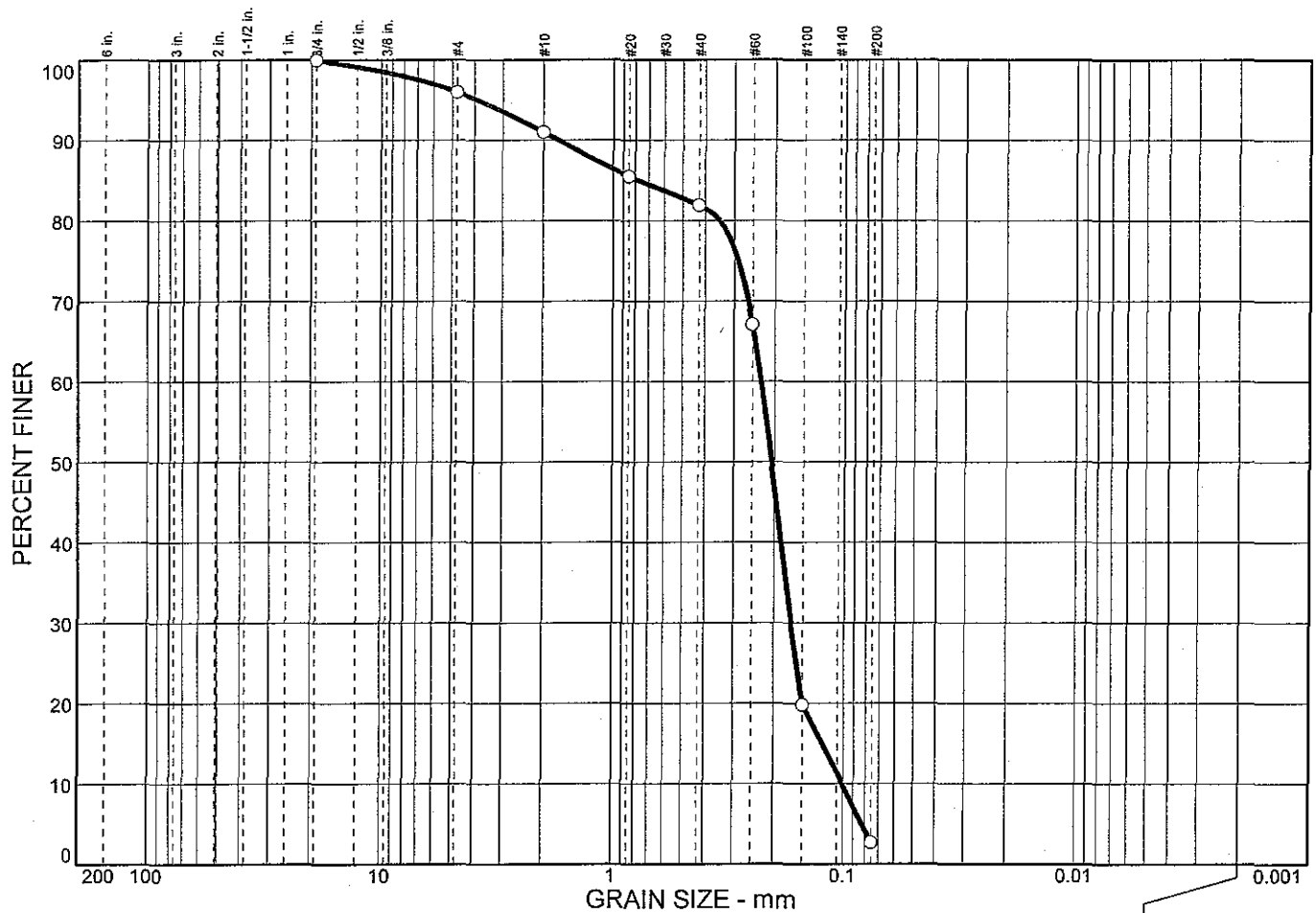
Project: Matagorda Ship Channel; Contract No. DACW64-03-D-0008; Delivery Order No. 0026

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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TOLUNAY-WONG  ENGINEERS, INC.

Particle Size Analysis (ASTM D 422)



% + 3"	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
○ 0.0	0.0	4.0	5.0	9.1	79.2	2.7	

SOIL DATA					
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	DESCRIPTION	USCS
○	04-192	3	10-11.5	Gray POORLY GRADED SAND; traces of shells	SP

Particle Size Analysis (ASTM D 422)

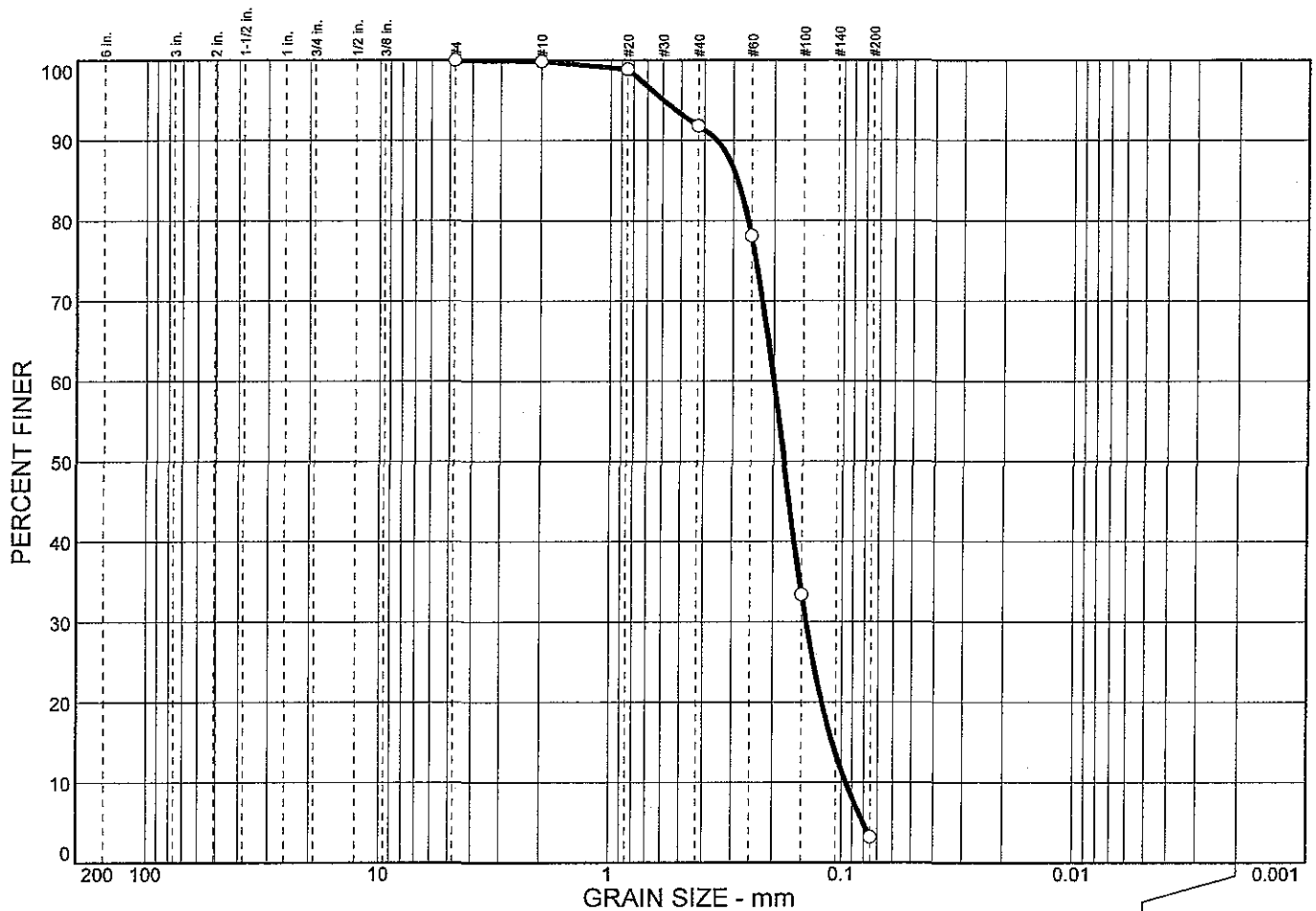
**Tolunay-Wong
Engineers, Inc.**

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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	0.0	0.1	8.1	88.6	3.2	

SOIL DATA					
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	DESCRIPTION	USCS
○	04-192	6	25-26.5	Gray POORLY GRADED SAND	SP

Particle Size Analysis (ASTM D 422)

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