



# HYDROMETER TEST

Project	M Nansen TA5 2013 SI Program		
Project No.	VM00605E.523.20		
Lab No.	S-9985		
Hole	TP-T-13-04		
Sample	GS5	Depth	3.0 - 3.1m
Reported By	CR/MR	Date	09-Jan-00

Hydrometer No. 799 Hydrometer Type 151 Graduate No. 18  
 Air Dried Wt. of Soil Tested 50.7 g Dry Wt. of Soil Tested 50.70 10

## Moisture Content

Tare 20. g Wet + Tare 40. g Dry + Tare 40. g M.C. 0.00%

## Composite Correction Factors

Factor  $-0.0084697 \text{temp}^2 + 0.1196543 \text{temp} + 3.2870133$

Specific Gravity  $G_s$  2.73

## Dispersant

Type 10 % Sodium Hexametaphosphate Amount 125 Date Mixed & Jug No. 03-Dec-13

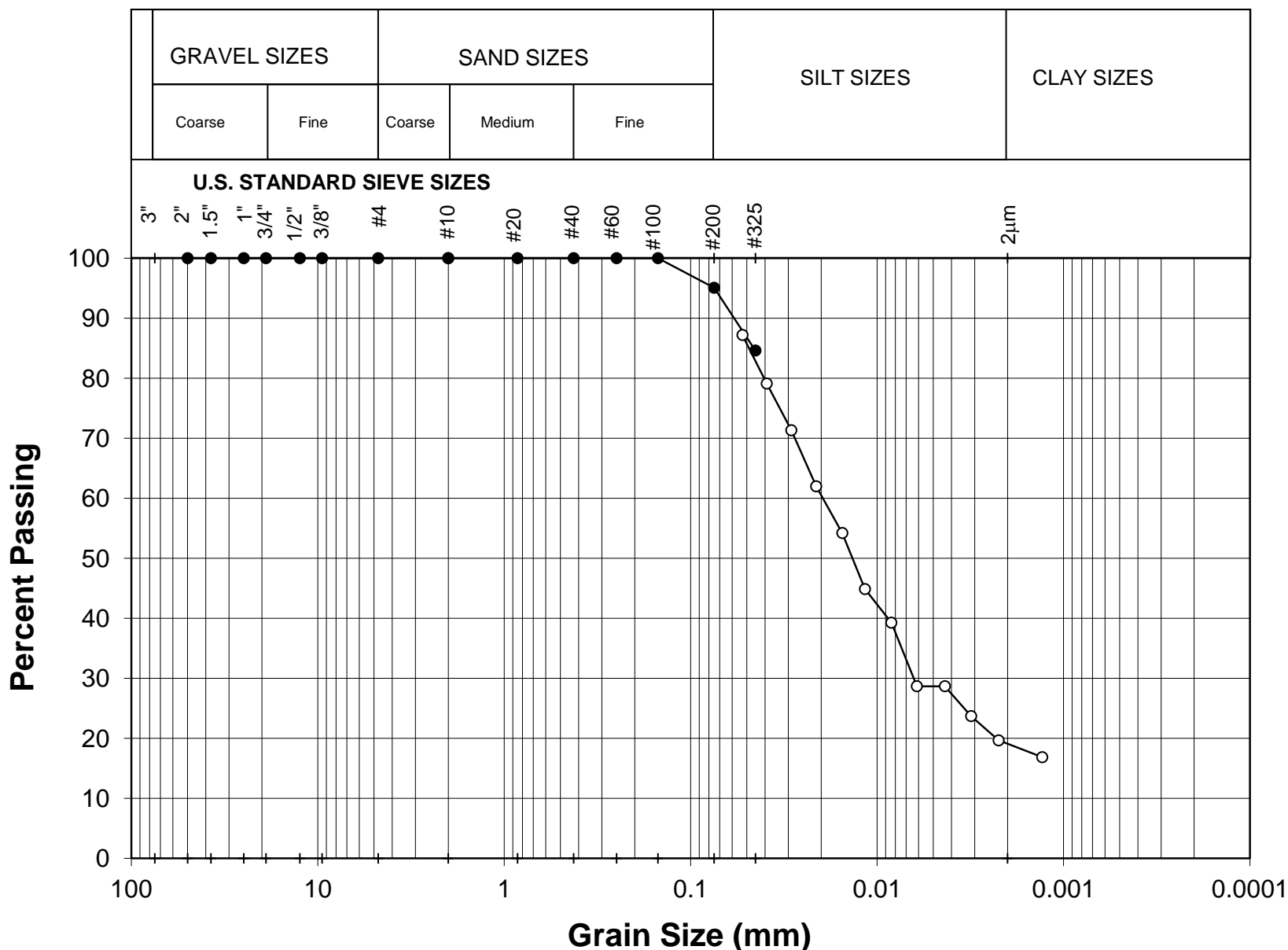
## Mechanical Sieve Results

Total Wt of Sample Dry					Hydrometer Test				
+ # 10					(Adjusted for + # 10 Material)				
- # 10					Total Dry Wt. 50.70 g				
Sieve Size	Particle Size (mm)	Weight Retained (g)	Weight Passing (g)	Percent Finer Than	Sieve #	Particle Size (mm)	Weight Retained (g)	Weight Passing (g)	Percent Finer Than
2 in.	50.0		468.10	100.0	10	2.000		50.70	100
1 1/2 in.	37.5		468.10	100.0	20	0.850		50.70	100
1 in.	25.0		468.10	100.0	40	0.425		50.70	100
3/4 in.	19.0		468.10	100.0	60	0.250		50.70	100
1/2 in.	12.5		468.10	100.0	100	0.150		50.70	100
3/8 in.	9.5		468.10	100.0	200	0.075	2.5	48.20	95
4	4.75		468.10	100.0	325	0.045	5.3	42.90	85
10	2.00		468.10	100.0	pan				

0.0

## Hydrometer Results

Date	Time	Elapsed Time (min)	R <sub>h</sub>	Temp. °C	Effective Length (cm)	Comp. Corr.	Corrected Reading	Diam. (mm)	% Soil in Susp.
1900-01-09	8:42:00	0							
1900-01-09	8:42:30	0.5	31.0	22.4	8.1	2.983156	28.01684	0.0528	87
1900-01-09	8:43:00	1	28.4	22.4	8.9	2.983156	25.41684	0.0391	79
1900-01-09	8:44:00	2	25.9	22.4	9.7	2.983156	22.91684	0.0289	71
1900-01-09	8:46:00	4	22.9	22.4	10.5	2.983156	19.91684	0.0213	62
1900-01-09	8:50:00	8	20.4	22.4	11	2.983156	17.41684	0.0154	54
1900-01-09	8:57:00	15	17.4	22.4	11.8	2.983156	14.41684	0.0116	45
1900-01-09	9:12:00	30	15.6	22.4	12.3	2.983156	12.61684	0.0084	39
1900-01-09	9:42:00	60	12.2	22.4	13.1	2.983156	9.216844	0.0061	29
1900-01-09	10:42:00	120	12.2	22.4	13.1	2.983156	9.216844	0.0043	29
1900-01-09	12:42:00	240	10.6	22.4	13.7	2.983156	7.616844	0.0031	24
1900-01-09	16:42:00	480	9.3	22.4	13.9	2.983156	6.316844	0.0022	20
1900-01-10	8:42:00	1440	8.4	22.4	14.2	2.983156	5.416844	0.0013	17



**Remarks**

**SUMMARY**

D <sub>10</sub> =		Gravel	0.0 %
D <sub>30</sub> =	0.006	Sand	4.9 %
D <sub>50</sub> =	0.014	Silt Sizes	76.1 %
D <sub>60</sub> =	0.020	Clay Sizes	19.0 %
C <sub>u</sub> =			
C <sub>c</sub> =			

**Results of Other Testing**

WL	%
WP	%
IP	%



**Grain Size Distribution**

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