



BOREHOLE LOG

BOREHOLE No: **B 1**
Sheet 1 of 1

Client: **ICONS International Cooperation Inc.**
Project: **Soil Inv. for Fishing Facility**
Location: **Dieppe, St. Kitts**
Ground Elevation: **m**
Boring Method: **Hollow Stem Augering**
Prep by: **M. Joab**
Boring Started on: **04/10/25** Completed on: **04/10/25**

- Drive, No Sample Collected
- ⊗ Disturbed Sample
- ⊘ Split Spoon Sample
- Shelby Tube Sample
- ▣ Core Sample
- ▽ Water Level at End of Drilling
- ▼ Water Level 24 hrs. or more

Water Content (W%)

Plastic and Liquid Limit
Natural Moisture Content

Shear Strength (Cu)

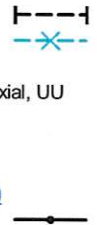
Unconsolidated Undrained Triaxial, UU
Unconfined Compression, UC

1" Picon Vane Shear, PV

1" Field Vane Shear, FV

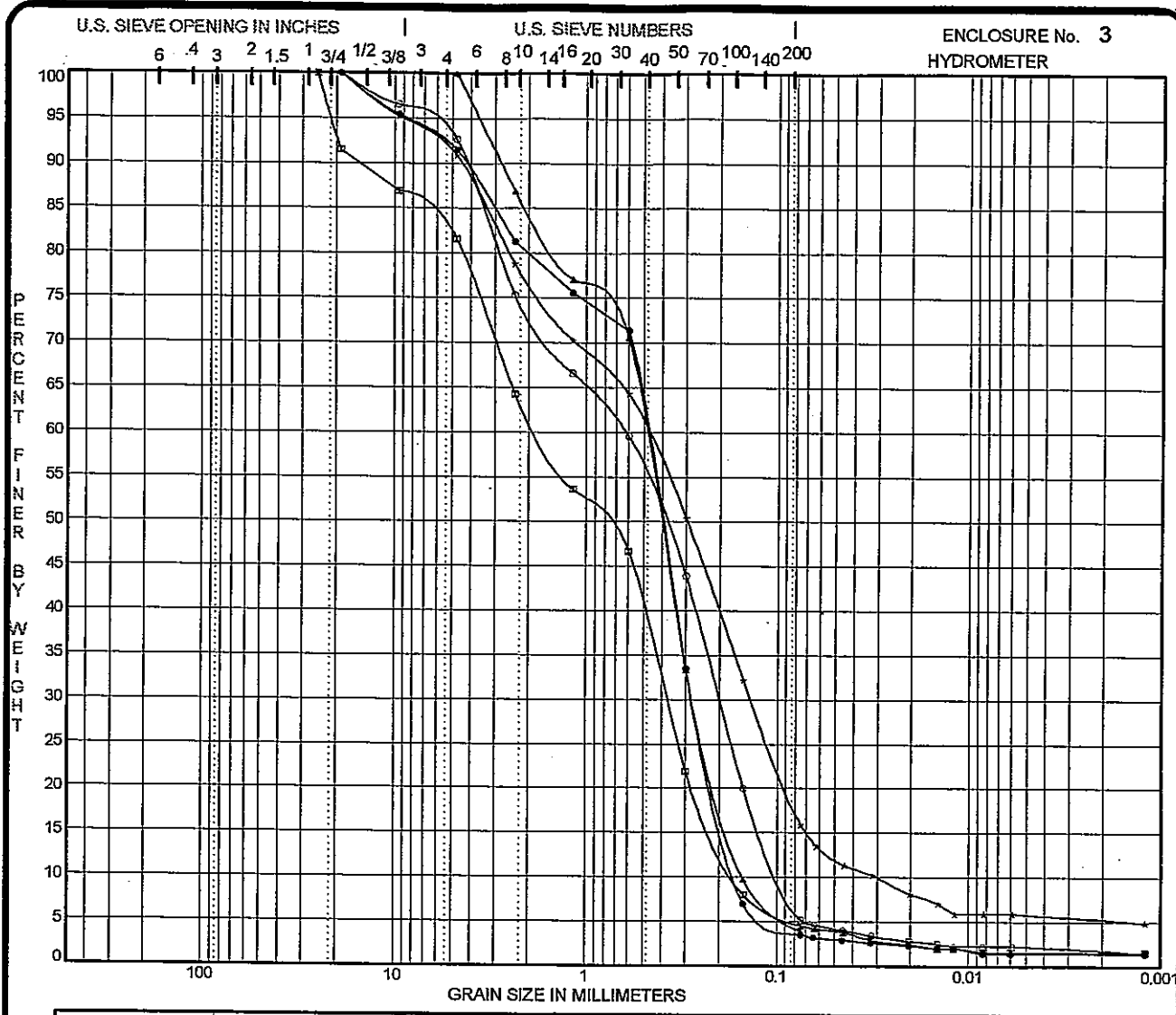
Penetration Resistance (N)

Standard Penetration Test



Symbol	Soil Description	Depth (m)	w% (kPa)				Sample Type	Wet Density (kN/m ³)	Additional Tests and Remarks
			20	40	60	80			
	Ground Surface	0	N-value (Blows/0.3m)						
	Dense, grey, fine SAND, with occasional gravel and coral fragments.	0 - 1	20	40	60	80	1		
	Medium dense, grey, SAND, some gravel.	1 - 2					2		
	Very dense, grey, SAND, some gravel.	2 - 3					3		
	Loose, grey, SAND with gravel.	3 - 4					4		
	Medium dense, grey, SAND.	4 - 5					5		
	Very dense, grey, GRAVEL, with isolated cobbles.	5 - 6					6		
	Medium dense, grey, SAND, some gravel and silt.	6 - 7					7		
	Dense to very dense, grey, SAND trace gravel.	7 - 9					8, 9, 10		
	End of Borehole at 9.60m	9.60							

BHL P-12BX-04376.GPL 05/03/16



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Id.	Depth, m	Classification	MC%	LL	PL	PI	Cc	Cu
● B 1/S 1	1.0	POORLY GRADED SAND SP					0.95	3.0
☒ B 1/S 3	2.5	POORLY GRADED SAND with GRAVEL SP					0.48	10.8
▲ B 1/S 5	4.0	POORLY GRADED SAND SP					0.99	3.3
* B 1/S 8	7.1						1.27	16.0
○ B 1/S 10	8.6						0.69	6.6

Sample Id.	Depth, m	D100	D60	D50	D30	%Gravel	%Sand	%Silt	%Clay
● B 1/S 1	1.0	19.00	0.49	0.406	0.274	8.5	88.0	2.1	1.4
☒ B 1/S 3	2.5	25.00	1.79	0.829	0.376	18.4	77.1	2.9	1.6
▲ B 1/S 5	4.0	4.75	0.49	0.409	0.272	0.0	96.1	3.9	
* B 1/S 8	7.1	19.00	0.48	0.295	0.137	9.1	75.0	10.7	5.2
○ B 1/S 10	8.6	19.00	0.62	0.393	0.200	7.3	87.5	3.5	1.7

PROJECT Soil Inv. for Fishing Facility - Dieppe, St. Kitts

JOB NO. GA 04 376-A
DATE March 2005

GRADATION CURVES
Geotech Associates Ltd.
Tunapuna



*GRSZL-2 04376.GPJ 05/03/05

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376-A PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 1/ S 1

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		A	D
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	655.5	659.4
TEMPERATURE, (T_w)	°C	28	28
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	639.4	643.3
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9980	0.9980
G_s		2.803	2.803

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.803

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376-A PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 1/ S 3

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		M	D
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	658.1	659.6
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	641.7	643.3
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.900	2.867

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.844

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376-A PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 1/ S 5

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		H	E
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	657.3	656.8
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	640.8	640.3
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.934	2.934

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.934

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376-A PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 1/ S 8

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		P	O
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	658.9	657.3
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	642.7	641.1
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.834	2.834

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.834

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376-A PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 1/ S 10

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		5A	IA
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	641.6	651.0
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	625.6	634.9
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.771	2.803

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.787



BOREHOLE LOG

BOREHOLE No: **B 2**
Sheet **1** of **1**

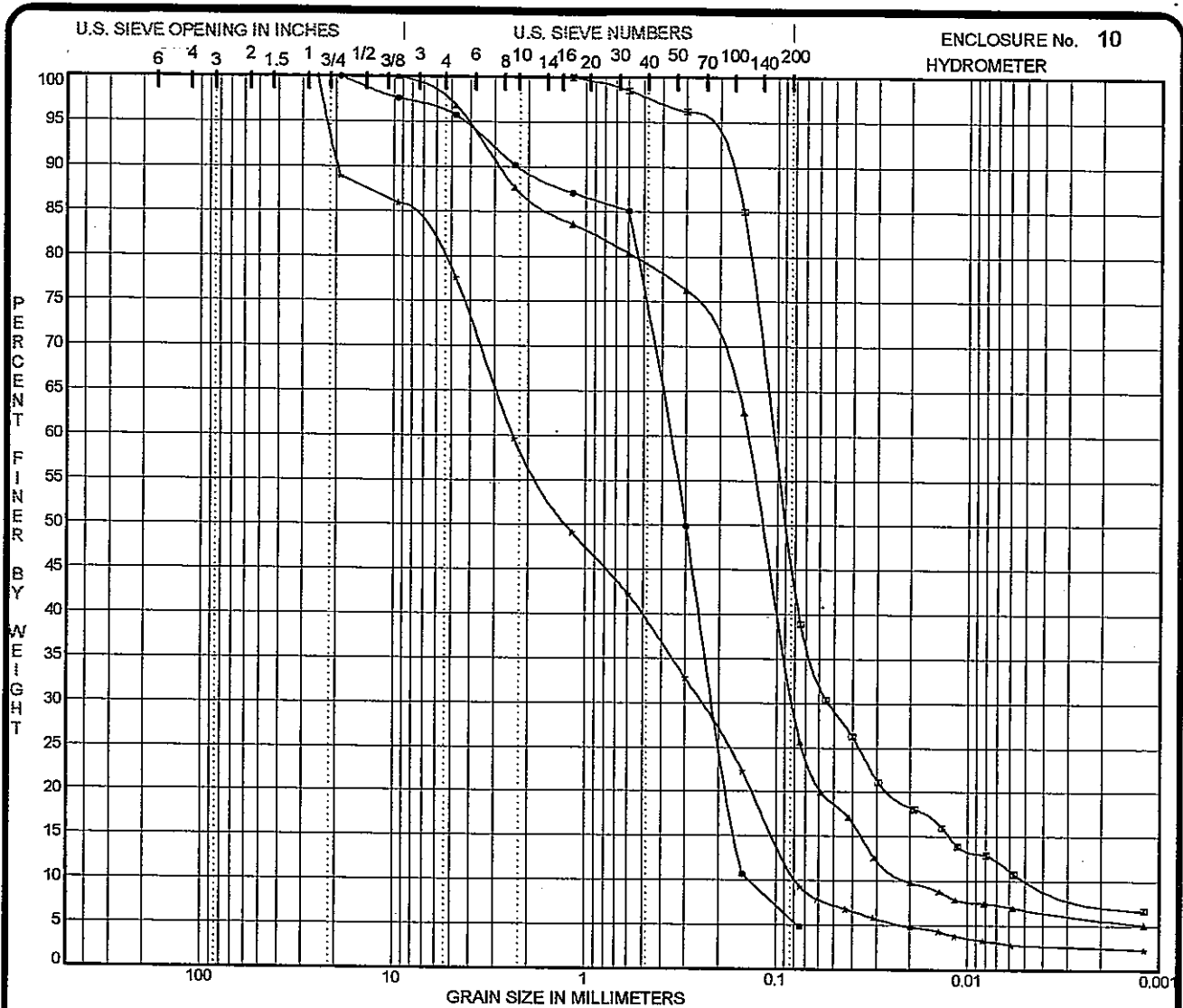
Client: **ICONS International Cooperation Inc.**
Project: **Soil Inv. for Fishing Facility**
Location: **Dieppe, St. Kitts**
Ground Elevation: **m**
Boring Method: **Rotary**
Prep by: **M. Joab**
Boring Started on: **04/10/21** Completed on: **04/10/21**

- Drive, No Sample Collected
- Disturbed Sample
- Split Spoon Sample
- Shelby Tube Sample
- Core Sample
- Water Level at End of Drilling
- Water Level 24 hrs. or more

- Water Content (W%)
- Plastic and Liquid Limit
- Natural Moisture Content
- Shear Strength (Cu)
- Unconsolidated Undrained Triaxial, UU
- Unconfined Compression, UC
- 1" Picon Vane Shear, PV
- 1" Field Vane Shear, FV
- Penetration Resistance (N)
- Standard Penetration Test

Symbol	Soil Description	Depth (m)	w%				Sample Type	Wet Density (kN/m ³)	Additional Tests and Remarks
			20	40	60	80			
	Water Surface	0	N-value (Blows/0.3m)						
	Water.	0	20	40	60	80			
	Loose, grey, SAND with frequent gravel particles.	1							
	Medium dense, grey, SAND trace gravel.	2					1		
		3					2		
		4					3		
		5					4		
	Dense, grey, SILTY SAND trace clay.	6					5		
	Medium dense, grey, SILTY SAND trace gravel and clay.	7					6		
		8					7		
		9					8		
	Very dense, grey, GRAVELLY SAND trace silt and clay.	10					9		
		11					10		
	End of Borehole at 9.60m	9.60							

BHL12BX_04376.GBL_05/13/22



ENCLOSURE No. 10
HYDROMETER

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample Id.	Depth, m	Classification				MC%	LL	PL	PI	Cc	Cu
● B 2/S 3	3.5	POORLY GRADED SAND SP								0.88	2.6
☒ B 2/S 5	5.0								6.59	24.5	
▲ B 2/S 7	6.6								2.26	7.0	
* B 2/S 9	8.1								0.33	30.8	

Sample Id.	Depth, m	D100	D60	D50	D30	%Gravel	%Sand	%Silt	%Clay
● B 2/S 3	3.5	19.00	0.37	0.301	0.211	4.3	90.9	4.8	
☒ B 2/S 5	5.0	1.18	0.10	0.089	0.053	0.0	61.1	30.9	8.0
▲ B 2/S 7	6.6	9.50	0.14	0.118	0.081	3.2	71.2	19.9	5.7
* B 2/S 9	8.1	25.00	2.40	1.252	0.249	22.4	68.3	6.8	2.5

PROJECT Soil Inv. for Fishing Facility - Dieppe, St. Kitts

JOB NO. GA 04 376-B
DATE December 2004

GRADATION CURVES
Geotech Associates Ltd.
Tunapuna



*GRSZL-2, 04376.GPJ 05/03/02

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376 PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 2/ S 3

MATERIAL DESCRIPTION _____

TESTED BY A.G. CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		#514	#450
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	657.0	657.2
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	640.8	641.1
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.834	2.803

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.819

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376 PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 2/ S 5

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		N	C
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	658.0	660.2
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	642.1	644.2
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.741	2.771

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.756

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376 PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 2/ S 7

MATERIAL DESCRIPTION _____

TESTED BY A.G. CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		G	F
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	658.0	653.7
TEMPERATURE, (T_w)	°C	29	29
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	642.0	637.6
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9977	0.9977
G_s		2.771	2.803

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.787

**DETERMINATION OF SPECIFIC GRAVITY
(FINE AGGREGATES)**

PROJECT No. GA 04 376 PROJECT NAME: Soil Inv. for Fisheries Dev. Project

SOURCE Dieppe, St. Kitts SPECIMEN ID. B 2/ S 9

MATERIAL DESCRIPTION _____

TESTED BY A.G.

CHECKED BY A. Budhram

TEST No.		1	2
BOTTLE No.		IA	H
Wt. BOTTLE + WATER + SOIL = W_{bws}	g	651.2	657.2
TEMPERATURE, (T_w)	°C	28	28
Wt. BOTTLE + WATER = W_{bwc} (From calibrated curve)	g	634.9	640.8
Wt. OF EVAP. OF DISH + DRY SOIL	g		
Wt. OF EVAP. OF DISH	g		
Wt. OVEN DRY SOIL = W_s	g	25	25
SG of Water at T_w		0.9980	0.9980
G_s		2.868	2.901

REMARKS

AVERAGE SPECIFIC GRAVITY (G_s) = 2.885