No. 9.

From. D. 5431
to D. 5475
From H-4930
to H-

507

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.		---- M.		---- M. Down.			Up.		---- M.
						0						
						100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						1500						
						1600						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. No. 5431 Date, Apr. 8, 1909

Sdg. Mch. Tanner Reel 17 Shot / Lead 35 lbs.

Turns 60 Cor'n Depth 51 fms.

Sdg. Cup arming Amt. Bot'm Sample sml trace

Character of Bottom sn

Thermom. Make Non used / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 83 Time 2:50P / 83 Time 3:30P Air 84 / 84

Density: Surf. fms.

Wind: Direction North Force 1-2

Baromet. 29.84 Amt. of Clouds 1 State of Sea S

Weather bcy.

Direction and Force of Current. Surface / Bottom

Tide

General Locality East Coast Palawan

Dalaganem I (SW) S76E, Corandagos I (NW) 128E

Position 10-38-45 N-120-12 45 E

Chart used: No. 4717 Ed'n

Drift: Direction S46W Distance 0.8

Depth of Haul bottom

Apparatus and Rig used 6' McCormick tail wt

Time towing h. 20 m.

Remarks:

Deck Officer Mr Hogard Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.	P. M.			P. M. Down.			Up.	P. M.	
2	48	10	2	50	00	0	2	50	30	3	17	30
2	48	40	2	48	50	51 100	2	54	00	3	14	00
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

59

N 28 E

Corandagos I (N M) N 28 E

4.8 m

Dredge / Hydrog. } No. 5437 Date, Apr. 8, 1909

Sdg. Mch. Tanner Reel TN Shot / Lead } 25 lbs.

Turns 60 Cor'n Depth 51 fms.

Sdg. Cup arming Amt. Bot'm Sample smltrace

Character of Bottom sn

Thermom. { Make none used / No. } Cor'n { Instr. / Stem. }

Bottom Reading Cor'd Temp.

Temp. Surf. { 83 Time 330P / Time } Air { 84 }

Density: Surf. fms.

Wind: Direction various Force 0-1

Baromet. 29.84 Amt. of Clouds 1 State of Sea 8

Weather bcy

Direction and Force of Current. { Surface / Bottom }

Tide

General Locality East Coast Palawan

Dalangamen I (S) N 85 E Carandaga (NW) N 70 E

Position 10-37-50N-120-18-00E

Chart used: No. 4717 Ed'n

Drift: Direction S 68 W Distance 1.3

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 20 m.

Remarks:

Deck Officer Mr Hazard Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P M. Down.			Up.		M.		P M. Down.			Up.	P M.	
3	24	10	3	27	00	0	3	29	00	3	51	45
3	25	45	3	25	45	100	3	32	30	3	54	00
						120 ~~200~~	3	33	30	3	53	00
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
		60				1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
Corandagos						3400	(NW) N 30 E					
						3500						
						3600						
						3700	5.7 m					
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. No. 5433 Date, Apl. 8, 1909

Sdg. Mch. TN Reel Shank Shot / Lead 25 lbs.

Turns 64 Cor'n Depth 54 fms.

Sdg. Cup Arming Amt. Bot'm Sample arming fob

Character of Bottom gn M co S

Thermom. Make — No. — Cor'n Instr. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. 83° Time 4:16p. 83° Time 4:38p. Air 83° 83°

Density: Surf. — — fms. —

Wind: Direction Calm Force 0

Baromet. 29.83 Amt. of Clouds 2 State of Sea S

Weather bcz.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality East East of Palawan

Danlaugnaem I (S) N 80 E Barandaga (N W) N 35 E

Position 10-37-30 N-120-11-05 E

Chart used: No. 4717 Ed'n —

Drift: Direction S 44 W Distance 1.2

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing — h. 20 m.

Remarks:

Deck Officer Mr. Rohange Recorder [illegible]

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.M. Down.			Up.	P.M.			P.M. Down.			Up.	P.M.	
4	03	40	4	06	30	0	4	11	25	4	39	35
4	04	15	4	04	20	64 ~~100~~		15	00		36	50
						120 ~~200~~	4	15	45	4	36	00
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
			6	1		1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
Coromdagood						3500	(R.R.) R356					
						3600						
						3700						
						3800	6.5 m					
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5434 Date, Aug 8, 09, 19

Sdg. Mch. — Reel — Shot / Lead — lbs.

Turns — Cor'n — Depth — fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom —

Thermom. Make — No. — Cor'n Instr. — Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. 83° Time 7:10 p. / 83° Time 7:31 p. Air 83° / 83°

Density: Surf. — — fms —

Wind: Direction NNE Force 1

Baromet. 29.87 Amt. of Clouds 2 State of Sea S

Weather Fair

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Surface

Position

Chart used: No. Ed'n —

Drift: Direction Distance

Depth of Haul Surface

Apparatus and Rig used 5-ft Surface Net

Time towing — h. 20 m.

Remarks: No sounding taken.

Deck Officer Mr. Johnson Recorder Arnett

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. DOWN.			UP. ---- M.				---- M. DOWN.			UP. ---- M.		
						0	7	09	00	7	31	00
						100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5434 Date, Apl. 8, 09, 19

Sdg. Mch. — Reel — Shot Lead — lbs.

Turns — Cor'n — Depth — fms.

Sdg. Cup — Amt. Bot'm Sample —

Character of Bottom —

Thermom. Make — No. — Cor'n Instr. — Stem. —

Bottom Reading — Cor'd Temp.

Temp. Surf. 83° Time 7.57 p. 83° Time Air 83° 83°

Density: Surf. — — fms. —

Wind: Direction NNE Force 1

Baromet. 29.87 Amt. of Clouds 3 State of Sea S

Weather Dew

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality (Dark)

Nobeoria

Position 10-46-45N-120-22-45E

Chart used: No. 4717 Ed'n —

Drift: Direction N70E Distance 0.2

Depth of Haul Surface

Apparatus and Rig used ~~As before~~

5-ft Surface Net

Time towing — h. 20 m.

Remarks: No sounding.

Deck Officer Mr. Johnson Recorder Arnkil

Mr. Rohange C.E.D. Long.

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			P M.	Down.		Up.	P M.	
						0	7	50	10	8	12	10
						100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
		62				1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
Corandagos I						3100	(M)					
						3200				S 63 M		
						3300						
						3400	7.6 m					
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5435 Date, Apr 9, 1909

Sdg. Mch. — Reel — Shot Lead lbs.

Turns — Cor'n — Depth — fms.

Sdg. Cup — Amt. Bot'm Sample

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 83° Time 7 50' / Time Air 83°

Density: Surf. fms.

Wind: Direction Various Force 0-1

Baromet. 29.87 Amt. of Clouds 2 State of Sea S

Weather bc

Direction and Force of Current. Surface / Bottom

Tide

General Locality

Cuyo Lt. N. 68 E, Bisucay I. (SW) D. 30 W

Position 10-50-00 N 120-58-10 E

Chart used: No. 4717 Ed'n Feb 03

Drift: Direction W x N Distance .7 m

Depth of Haul Surface

Apparatus and Rig used 5' Surface net

Time towing h. m.

Remarks:

Deck Officer Mr. Hazard Recorder C. E. DeLong

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. DOWN.			UP. ___ M.				P M. DOWN.			UP. P M.		
						0	7	30	00	8	10	40
						100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Begin tabulation Station 163 (66) at

6 6

bmyo Lt

Ch 68 E

2.3 Ch

Dredge / Hydrog. } No. 5436 Date, May 7, 1909

Sdg. Mch. None used Reel Shot / Lead } lbs.

Turns Cor'n Depth 32 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make / No. Cor'n { Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 86 Time 7:05 / Time } Air { 85

Density: Surf. fms.

Wind: Direction SSW Force 3

Baromet. 29.81 Amt. of Clouds 9 State of Sea S

Weather bowl

Direction and Force of Current. { Surface / Bottom

Tide

General Locality North Entrance Manila Bay P.I. Corregidor St N 83 E Pt N W of Horno Pt N 22 W

Position 14-22-37 N - 120-29-~~45~~ E

Chart used: No. 4240 Ed'n Feb 07

Drift: Direction West Distance .5

Depth of Haul ~~Intermediate~~ surface

Apparatus and Rig used 10' Inter. 200# wt.

Time towing h. 13 m.

Remarks:

Deck Officer Mr Hazard Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			P M.	Down.		Up.	P M.	
						28 fms	7	03	00	7	18	00
						100						
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
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						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
Corregidor Lt.						3300	N 83 E					
						3400						
						3500	5.7 m					
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

67

Dredge / ~~Hydrog.~~ No. 5437 Date, May 8, 19[illegible]

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86 Time 10 00 / 86 Time 11 45 Air 88 / 89

Density: Surf. _____ fms. _____

Wind: Direction Calm Force 0

Baromet. 29.85 Amt. of Clouds 4 State of Sea 8

Weather bcy

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality West coast Luzon

Hermana Mayor I(N) N54E Hermana menor 2568871E

Position 15-45-54N-119-42-45E

Chart used: No. 4210 Ed'n _____

Drift: Direction N61W Distance 0.9

Depth of Haul 600 fms.

Apparatus and Rig used 500 lb wt. 6 plankton nets 100 fms apart top on 100 fms under surface (Serial)

Time towing _____ h. 36 m.

Remarks: ~~K#2 over side~~

apparatus = 6 K6
Depth = 100-600 fms

Deck Officer Mr Rohanapa Recorder Roberts

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.	---- M.			a M. Down.			Up.	a M.	
						0	9	58	10	11	34	30
						100	10	01	10		28	00
						200		05	45		24	00
						300		10	00		19	55
						400		14	05		15	30
						500		18	00	11	08	40
						600	10	27	00	11	03	35
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

69

Hermana Mayor I Lt N 69 E

4.9 m

See next page

continued.

Dredge / ~~Hydrog.~~ No. 5439 Date, May 8, 1909

Sdg. Mch. 20 Reel Shot / Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 86 / 86° Time 11:45 / Time 12.35 Air 89 / 86°

Density: Surf. fms.

Wind: Direction variable Force 2-1

Baromet. 29.85 Amt. of Clouds 3 State of Sea 8

Weather Rain

Direction and Force of Current. Surface / Bottom

Tide

General Locality / Position } See preceding page.

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul 450 fms.

Apparatus and Rig used 10' Intermediate 5 cot wt.

Time towing h. 2 m.

Remarks:

Deck Officer Mr. Johnson Recorder Roberts Arkil

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			A & B M.	Down.		Up.	B ---- M.	
						0	11	44	25	12	55	30
						100		48	15		52	30
						200		51	30		49	30
						300		54	50		46	30
						400		57	35		43	20
						500	12	00	30		40	15
						600		03	30		37	10
						700	12	06	30	12	33	50
						800						
						900			27 m	20 sec		
						1000						
						1100						
						1200						
						1300						
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						1500						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5438 Date, May 8, 1909

Sdg. Mch. Lucas Reel Shot ~~Lead~~ 35 lbs.

Turns 297 Cor'n Depth 297 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample about 2 oz.

Character of Bottom gn M.

Thermom. Make N. Z. No. 108015 Cor'n Instr. -.8 Stem.

Bottom Reading 47° Cor'd Temp. 46.2

Temp. Surf. 87° Time 4^05 87 Time 4^44 Air 87° 87

Density: Surf. fms.

Wind: Direction Various Force 1-2

Baromet. 29.75 Amt. of Clouds 6 State of Sea X

Weather bc

Direction and Force of Current. Surface Bottom

Tide

General Locality West Coast Luzon Tambobo Pt. N 1 W - Caiman Pt.

Position 15-54-42 N - 119-44-42 E

Chart used: No. 4210 Ed'n -

Drift: Direction S 5 E Distance 1.2 m.

Depth of Haul bottom

Apparatus and Rig used 12 ft Agassiz; mud-bag; tailwt.; 2 wing wts; 4 gl. flts.

Time towing h. 20½ m.

Remarks:

Deck Officer Mr. Johnson Recorder [illegible]

Mr. Hayard C.E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P	M.	Down.	Up.	P	M.		P	M.	Down.	Up.	P	M.
3	47	25	3	54	00	0	4	02	00	4	56	15
	48	25		53	20	100	4	05	30	4	53	20
	49	20		52	30	200	4	10	05	4	50	10
3	50	20	3	51	40	297 300	4	13	00	4	46	55
						400	4	15	40	4	43	50
						500	4	19	30	4	40	00
						600	4	[illegible]	[illegible]	4	[illegible]	[illegible]
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
N 84 E						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
Hermana Ind Lt						3500	S 21 E					
						3600						
						3700	7.5 m					
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

70

Dredge ~~Hydrog.~~ No. 5439 Date, May 9, 1909

Sdg. Mch. Lucas Reel Shot ~~Lead~~ 35 lbs.

Turns 940 Cor'n — Depth 940 fms.

Sdg. Cup Sizshee Amt. Bot'm Sample 2 oz.

Character of Bottom gn N

Thermom. Make N.Z. No. 108015 Cor'n Instr. -.8 Stem.

Bottom Reading 37.5° Cor'd Temp. 36.7

Temp. Surf. 87° Time 10:45 a 87° Time 11:07 a Air 89° 87°

Density: Surf. fms.

Wind: Direction Various Force 0-1

Baromet. 29.85 Amt. of Clouds 3 State of Sea S

Weather bcz

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality West coast Luzon.
Piedra Pt N16E - Caimen Pt S60 E

Position 15-58-15 N - 119-40-20 E

Chart used: No. 4210 Ed'n —

Drift: Direction N16W Distance 2.5 m

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 14 m.

Remarks: Accumulator registered close to 5 ton when began heaving in; over 5 around 1500 fms.; 3 when not at the surface. Net slightly torn

Deck Officer Mr. Barthalow Recorder Amtrit — Mr. Rohange C.E. DeLong.

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M. Down.			Up.	a M.			a M. Down.			Up.	a M.	
9	34	00	9	51	55	0	9	56	25	12	06	40
	34	50		51	10	100		59	45	12	03	15
	35	40		50	35	200	10	03	30		59	45
	36	35		49	55	300		07	20		56	10
	37	35		49	15	400		10	10		52	25
	38	35		48	35	500		13	00		48	45
	39	45		47	50	600		15	30		45	00
	40	55		47	05	700		18	00		41	40
	42	05		46	20	800		20	50		38	15
	43	25		45	35	900		23	40		34	45
9.	44	00	9	45	10	940 1000		26	15		31	00
						1100		28	50		27	20
						1200		32	15		23	40
						1300		34	40		20	20
						1400		37	50		17	00
						1500		40	10		13	15
						1600		42	55		09	00
						1650 1700	10	44	20			
						1800		47	15		05	20
						1750 1900	10	48	50	11	03	05
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

72

Hermana Mayor I Lt S33 E

12.6 m

Dredge / ~~Hydrog.~~ No. 5440 Date, May 10, 1909

Sdg. Mch. Lucas Reel Lucas Shot / ~~Lead~~ 35 lbs.

Turns 172 Cor'n —— Depth 172 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 2 oz.

Character of Bottom ~~gy. S.; Co. M.~~ fne. gy. S.; glob.

Thermom. Make N. Z. No. 108015 Cor'n Instr. -.8 Stem.

Bottom Reading 54° Cor'd Temp. 53.2

Temp. Surf. 87° Time 1 48 / 87° Time 2 22 Air 86½° / 86½

Density: Surf. fms.

Wind: Direction Various Force 0-1

Baromet. 29.83 Amt. of Clouds 9 State of Sea S

Weather bc.

Direction and Force of Current. Surface / Bottom

Tide

General Locality W. coast Luzon
Tagaporo I (NE) S26E Piedra Pt S22W

Position 16-33-52 N 119-52-54 E

Chart used: No. 4209 Ed'n

Drift: Direction N 22 E Distance 1.8

Depth of Haul bottom.

Apparatus and Rig used 12' Agassiz N.R.; 4 glass floats, 2 trimming weights, 1 tail weight, 1 mud bag.

Time towing h. 20 m.

Remarks:

Deck Officer Mr. Johnson Recorder C.E. D. Long

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P M.	Down.		Up.	P M.			P M.	Down.		Up.	P M.	
1	33	20	1	37	55	0	1	46	50	2	29	40
1	34	45	1	37	05	100	1	50	05	2	26	25
1	35	20	1	36	25	172 ~~200~~	1	55	00	2	23	25
						300	2	00	35	2	20	10
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
San Fernando Pt Lt						3300					N 82 E	
						3400						
						3500		23.1 m				
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

76

Dredge / ~~Hydrog.~~ No. 5441 Date, May 10, 1909

Sdg. Mch. Lucas Reel Lucas Shot / ~~Lead~~ 35 lbs.

Turns 186 Cor'n — Depth 186 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample

Character of Bottom

Thermom. Make N.Z. No. 108015 Cor'n Instr. -.8 Stem.

Bottom Reading 53° Cor'd Temp. 52.2

Temp. Surf. 87° Time 3 35 / 87° Time 4:10p Air 86° / 86°

Density: Surf. fms.

Wind: Direction N.W. Force 2-3

Baromet. 29.81 Amt. of Clouds 8 State of Sea S

Weather bc.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Entrance to Lingayen Tagaporo I (NE) S1E - San Fernando

Position 16-38-00 N - 119-57-18 E

Chart used: No. 4209 Ed'n —

Drift: Direction N64E Distance 1.8 m.

Depth of Haul Bottom

Apparatus and Rig used 25' Agassiz N.R.; 2 wing weights, 13 glass floats, 1 tail weight

Time towing h. 2.0 m.

Remarks:

Deck Officer Mr. Johnson Recorder C.E.D. Long

Mr. Bartholow Frapil

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.		P. M.		P. M. Down.			Up.	P. M.	
3	18	35	3	23	05	0	3	29	45	4	17	30
3	19	40	3	22	10	100	3	34	30		14	20
3	20	20	3	21	20	186 ~~200~~	3	38	50		11	10
						300	3	45	20		08	00
						325 ~~400~~	3	46	50	4	07	00
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
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						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

77

Gulf.
Pt. S 89 E

San Fernando Pt Lt S 87 E
18.7 m

Dredge / ~~Hydrog.~~ No. 5442 Date, May 10, 1909

Sdg. Mch. TN Reel TN Shot / Lead lbs.

Turns 52 Cor'n 50=43 Depth 45 fms.

Sdg. Cup armin Amt. Bot'm Sample trace

Character of Bottom co. S.

Thermom. Make / No. none used Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 85° Time 7:00 p / Time Air 82°

Density: Surf. fms.

Wind: Direction East Force 3-1

Baromet. 29.86 Amt. of Clouds 10 State of Sea S

Weather opltg

Direction and Force of Current. Surface / Bottom

Tide

General Locality Lingayen Gulf

Position 16-30-36 N 120-11-06 E

Chart used: No. 4209 Ed'n

Drift: Direction S12 E Distance 15.5

Depth of Haul Bottom.

Apparatus and Rig used As before

Time towing 10 h. 34 m.

Remarks:

Deck Officer Mr. Rohange Recorder [illegible]

11—1023

C.E. DeLong

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.	M. Down.		Up.	P.	M.		P.	M. Down.		Up.	P.	M.
6	47	00	6	47	50	0	6	54	00	6	36	30
6	47	30	6	47	35	~~100~~	6	58	00			
						100 ~~200~~				6	32	30
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
				7		2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
S T Pt Lt						3300		N 39 E				
						3400						
						3500						
						3600		8.4 m				
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5443 Date, June 3, 1909.

Sdg. Mch. Lucas Reel L. Shot ~~Lead~~ 35 lbs.

Turns 241 Cor'n — Depth 241 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1/4 oz.

Character of Bottom as SSh

Thermom. Make N.B. No. 108015 Cor'n Instr. ~~.6~~ -.7 Stem.

Bottom Reading 52° Cor'd Temp. 51.3

Temp. Surf. 83° Time 9:15a 83° Time 9:34a Air 82° 82°

Density: Surf. — — fms. —

Wind: Direction East Force 3

Baromet. 29.88 Amt. of Clouds 9 State of Sea G.

Weather Uc.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality North of Samar Batag I. lt S 44 E - Macan I (W) S 30 W

Position 12°43'05" N - 125°01'00" E.

Chart used: No. 4449 Ed'n Jany/87

Drift: Direction N 70° W Distance 1.9 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz NR, 4 glass floats; 2 wing wts.; 1 tail-wt.

Time towing — h. 20½ m.

Remarks: Towing from 9:12:50 to 9:33:20

Deck Officer Mr. Johnson Recorder Arnkil —

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a	M.	Down.	Up.	a	M.		a	M.	Down.	Up.	a	M.
8	47	00	8	54	00	0	8	59	10	9	49	50
	48	15		53	45	100	9	02	30		46	45
	49	25		51	45	200		05	30		43	35
8	50	00	8	51	20	241) 300		08	45		40	25
						400		11	30		37	20
						440 ~~500~~	9	12	50			
						500 ~~600~~		17	50		34	00
						515 ~~700~~	9	18	30	9	33	20
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
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						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
Batag I Lt						2900	S 44 E					
						3000						
						3100		4.4 mi				
						3200						
						3300						
						3400						
						3500						
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						3700						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

89

Dredge / ~~Hydrog~~ No. 544. Date, June 3, 1909

Sdg. Mch. Lucas Reel L. Shot / ~~Leads~~ 35 lbs.

Turns 308 Cor'n — Depth 308 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1½ oz.

Character of Bottom gn M.

Thermom. Make N3. No. 108015 Cor'n Instr. -.7 Stem.

Bottom Reading 46° Cor'd Temp. 45.3

Temp. Surf. 83° Time 10:30 a 83° Time 10:50 a Air 84.5° 85°

Density: Surf. 308 fms.

Wind: Direction East Force 3

Baromet. 29.86 Amt. of Clouds 6 State of Sea G.

Weather bcs.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality As before

Bateg I 4 S 57 E - Macan I (W) S 7 E

Position 12 43 51 N - 124 58 50 E

Chart used: No. 4449 Ed'n —

Drift: Direction N 65° E Distance 1.1 m.

Depth of Haul Bottom.

Apparatus and Rig used As before

Time towing — h. 20 m.

Remarks: Water-bottle used in sdg.

Deck Officer Mr. Johnson Recorder [illegible]

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M.	Down.		Up.	a M.			a M.	Down.		Up.	a M.	
9	54	35	10	01	00	0	10	6	30	11	07	00
	55	25	10	00	00	100		10	40		04	00
	56	20		59	15	200		15	15	11	01	00
	57	10		58	30	300		19	00		58	00
9	57	15	9	58	15	308 400		23	50		55	00
						500		27	10		53	00
						550 ~~600~~	10	29	00			
						600 ~~700~~	10	31	30	10	48	30
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
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						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
Batag I Lt						3100	S 52 E					
						3200						
						3300		6.4				
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

90

Dredge / Hydrog. No. 5445 Date, June 3, 1909

Sdg. Mch. Lucas Reel L Shot / Lead 35 lbs.

Turns 383 Cor'n — Depth 383 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1 oz.

Character of Bottom gn MS

Thermom. Make N.Z. No. 108015. Cor'n Instr. ~~.6~~ -.7 Stem.

Bottom Reading 45° Cor'd Temp. 44.3

Temp. Surf. 83° Time 12 N 80 Time 12.40 P Air 85° 83°

Density: Surf. ~~383~~ fms.

Wind: Direction East Force 3-4

Baromet. 29.85 Amt. of Clouds 8 State of Sea 9.

Weather bcz.

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality North of Samar

Batag I lt S41E - Macan I (W) S7W

Position 12°44'42"N - 124°59'50"E

Chart used: No. 4449 Ed'n —

Drift: Direction S 73 E Distance 1.5

Depth of Haul Bottom.

Apparatus and Rig used As before.

Time towing h. 37 m.

Remarks: Wtr. bottle used in sounding. Towing from 12.00.15" to 12.37.00"

Deck Officer Mr. Johnson Recorder [illegible]

Mr. Lazard Tomey

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a	M. Down.		Up.	a	M.		a	M. Down.		Up.	a	M.
11	21	00	11	28	35	0	11	34	30	12	58	35
	21	50		27	50	100		39	00		55	35
	22	35		27	05	200		42	30		52	30
	23	35		26	20	300		45	30		49	05
11	24	30	11	25	30	383) 400		49	00		47	30
						500		54	40		44	50
						600	PM	58	05		41	55
						650 700	12	00	15	12	39	50
						800					37	00
						900						
						1000						
						1100						
						1200						
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						1500						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Batag I Lt

841 6

6.3 m

91

Dredge / Hydrog. No. 5446 Date, June 3, 1909

Sdg. Mch. Lucas Reel L. Shot / Lead 35 lbs.

Turns 300 Cor'n — Depth 300 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1/2 oz.

Character of Bottom Gn M.

Thermom. Make N.Z. No. 108015 Cor'n Instr. Stem.

Bottom Reading Failed to register Cor'd Temp.

Temp. Surf. 83° Time 1:54 P.M. 83° Time 2:26 P.M. Air 84° 83°

Density: Surf. ~~300~~ fms.

Wind: Direction E.N.E. Force 3.

Baromet. 29.83 Amt. of Clouds 9. State of Sea G.

Weather b.c.m.

Direction and Force of Current. Surface Bottom

Tide

General Locality North of Samar Batag Is. Lt. S50°E Macau Is (W) South

Position 12°43'51N. 124°59'18E

Chart used: No. 4449 Ed'n

Drift: Direction S83°E Distance 1.6

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 29 m.

Remarks: Sounding thermometer failed to register

Deck Officer Mr Hazard Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.	M. Down.		Up.	P.	M.		P.	M. Down.		Up.	P.	M.
1	21	40	1	29	05	0	1	34	30	2	45	00
	22	30		28	00	100		38	25		42	15
	23	45		27	05	200		42	00		38	55
1	24	40	1	25	40	300) 300		45	05		35	55
						400		49	00		33	00
						500		52	30		29	50
						550 ~~600~~	1	54	20			
						600 ~~700~~	1	58	15	2	26	15
						800						
						900						
						1000						
						1100						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Batag I Lt

S 50 E

6.1 m

92

Dredge / ~~Hydrog.~~ No. 5447 Date, June 4, 1907

Sdg. Mch. Lucas Reel Lucas Shot / ~~Lead~~ 85 lbs.

Turns 310 Cor'n — Depth 310 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample plentiful

Character of Bottom gy. M.

Thermom. { Make Ng / No. 108015 } Cor'n { Instr. -.7 / Stem. }

Bottom Reading 46° Cor'd Temp. 45.3

Temp. Surf. { 85° Time 6.58 / 85° Time 6.30 } Air { 88° / 88° }

Density: Surf. fms.

Wind: Direction E Force 2-3

Baromet. 29.86 Amt. of Clouds 9 State of Sea 8

Weather Lc.

Direction and Force of Current. { Surface / Bottom }

Tide

General Locality Tiris Pt. N 81 W., San Miguel Pt S 7 W. (Sagaroy Gulf, E Luzon)

Position 13° 28' 00" N. 123° 46' 18" E

Chart used: No. 4221 c.s. Ed'n June 05

Drift: Direction N 64° E Distance 1.5

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz M.R., 4 glass floats, 2 wing weights, 1 tail weight

Time towing h. 21 m.

Remarks:

Deck Officer Mr. Johnson Recorder C. R. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M.	Down.		Up.	a M.			a M.	Down.		Up.	a M.	
5	34	10	5	39	40	0	5	52	20	6	52	10
5	35	00	5	39	05	100	5	55	60	6	49	00
5	35	45	5	38	30	200	6	00	00	6	46	00
5	36	40	5	37	50	300	6	04	35	6	42	10
5	36	45	5	37	45	310 400	6	08	00	6	39	25
						500	6	11	25	6	36	30
						550 600	6	13	40	6	35	00
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
San Miguel Pt						3100	S 7 M					
						3200						
						3300	3,5 m					
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

93

Dredge / ~~Hydrog.~~ No. 5448 Date, June 4, 1929

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth 47 fms.

Sdg. Cup _____ Amt. Bot'm Sample by Chart.

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86° Time 9:00 a / 86° Time 9:15 a Air 86° / 86°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1

Baromet. 29.91 Amt. of Clouds 5 State of Sea S

Weather Vcz.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Tabaco Bay East Luzon, Malinao Church N 73 W - San Miguel Pt

Position 13° 23' 10" N - 123° 45' 19" E

Chart used: No. 4237 Ed'n Mch/05

Drift: Direction S 64 E Distance .8 m.

Depth of Haul Botm

Apparatus and Rig used As before, plus mudbag.

Time towing - h. 20 m.

Remarks: No sounding taken.

Deck Officer Mr. Hazard Recorder Arnkil -

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M.	Down.		Up.	___ M.			___ M.	Down.		Up.	___ M.	
						0	8	49	35	9	18	20
						100	8	54	30	9	15	00
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
N 23 E						2500						
						2600						
			95			2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
San Miguel Pt						3400	N 23 E					
						3500	1.4 m					
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. No. 5449 Date, June 4, 1909

Sdg. Mch. Reel Shot / Lead lbs.

Turns No Sounding Cor'n Depth 300 fms.

Sdg. Cup Amt. Bot'm Sample By chart

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 86° Time 2:00 P / 86° Time 2:50 P. Air 87° / 85°

Density: Surf. fms.

Wind: Direction E N E Force 3

Baromet. 29.84 Amt. of Clouds 4 State of Sea S.

Weather B.c.g.

Direction and Force of Current. Surface / Bottom

Tide

General Locality Lagonoy Gulf. East Luzon East Pt Batan Is. S 43° E Cagbulanan Is (SE) S 48° W

Position 13° 21' 36" N - 124° 00' 30" E

Chart used: No. 4221 Ed'n

Drift: Direction North Distance 1.4

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 21. m.

Remarks: No Sounding Taken

Deck Officer Mr Rohanger Recorder Tosney

11—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			P ---- M.	Down.		Up.	P ---- M.	
						0	2	7	30	3	10	50
						100	2	10	15	3	08	00
						200	2	13	30	3	04	35
						300	2	17	45	3	01	15
						400	2	21	50	2	57	55
						500	2	25	00	2	54	50
						600	2	28	00	2	51	40
						650 ~~700~~	2 2	36 38	15 15	2	49	50
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
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						4000						
						4100						
						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						

97

East Pt Bound S43E

7.9 m

Dredge / ~~Hydrog.~~ No. 5450 Date, June 4, 1909

Sdg. Mch. Lucas Reel L Shot / Lead 35 lbs.

Turns 408 Cor'n Depth 408 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample

Character of Bottom Gn M. Co.

Thermom. Make N J. No. 108015 Cor'n Instr. -.7 Stem.

Bottom Reading 43° Cor'd Temp. 42.3

Temp. Surf. 86° Time 3.36 P Time 4.22 Air 85° 87°

Density: Surf. fms.

Wind: Direction East. Force 3.

Baromet. 29.79 Amt. of Clouds 4 State of Sea S.

Weather b c g.

Direction and Force of Current. Surface Bottom

Tide

General Locality Lagonoy Gulf East Luzon. East Pt Batan Is. S 36° E Cagubalanan Is (SE) S 36° W.

Position 13° 23' 15" N. 124° 00' 30" E

Chart used: No. 4221 Ed'n

Drift: Direction North Distance 1.9

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing — h. 28 m.

Remarks:

Deck Officer Mr Rohange Mr. Johnson Recorder Tosney De Long.

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P.	M. Down.		Up.	P.	M.		P.	M. Down.		Up.	P.	M.
3	15	05	3	23	50	0	3	26	15	4	47	10
3	16	25	3	23	10	100		29	55		44	00
3	17	10	3	22	30	200		33	10		41	00
3	17	55	3	21	50	300		35	50		37	50
3	18	40	3	20	10	400		39	00		34	40
3	18	50	3	19	50	408) 500		42	15		31	20
						600		45	20		28	05
						700		48	05		25	00
						800		51	55		21	50
						850 ~~900~~	3	52	15	4	20	00
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

98

East Pt Bataan S 36 E

9.2 m

Dredge / ~~Hydrog.~~ No. 5451. Date, June 5, 1909

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth 380 fms. to 340 by chart.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 84° Time 7:35 a / 84° Time 8:00 a Air 79° / 85°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 2

Baromet. 29.88 Amt. of Clouds 8 State of Sea S

Weather Trp

Direction and Force of Current. Surface — Bottom —

Tide —

General Locality Lagoon, Gulf, SE Luzon Cagbulyan I (SE) S 44 W - Nanatang Pt.,

Position 13°22'22" N - 124°00'48" E

Chart used: No. 4221 Ed'n —

Drift: Direction S 61 E Distance 1.

Depth of Haul 280.

Apparatus and Rig used 10' Inter., double cone

Time towing _____ h. 21 m.

Remarks: No sounding

Deck Officer Mr. Hazard Recorder Grinkit

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			ft.	M.	Down.	Up.	ft.	M.
						0	7	21	15	8	07	05
						100		25	50		03	40
						200		29	25	8	00	20
						300		32	25		57	00
						345 ~~400~~	7	34	00	7	55	10
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

99.

Batan, S 37 E.

East Pt Batan I

S 38 E

8.2 m

Dredge / ~~Hydrog.~~ No. 5452 Date, June 7, 1909.

Sdg. Mch. Reel Shot / Lead lbs.

Turns Cor'n Depth 110 By chart fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 85° / 86° Time 8:52 a / Time 9:11 a Air 85 / 85°

Density: Surf. fms.

Wind: Direction Variable Force 2

Baromet. 29.88 Amt. of Clouds 6 State of Sea S

Weather bcz

Direction and Force of Current. Surface / Bottom

Tide

General Locality Albay Gulf S.E. Luzon Legaspi Lt S38°W. Parch Pt Luzon S65°E.

Position 13° 11' 54 N. 123° 47' 10" E

Chart used: No. 4221 Ed'n —

Drift: Direction N 48° E Distance 1.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz NR. with usual accessories.

Time towing — h. 14 m.

Remarks: No Sounding.

Deck Officer Mr. Hazard Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			9 M.	Down.		Up.	9 M.	
						0	8	47	10	9	11	30
						100	8	48	05	9	08	40
						200	8	51	00	9	05	20
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
		84				2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
Legaspi Lt						2700						
						2800	S 38 W					
						2900						
						3000	3 m					
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5453 Date, June 7, 1909

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth 146 By chart. fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86° / 86° Time 9.40 A. / Time 10:00 A. Air 85° / 86°

Density: Surf. _____ fms. _____

Wind: Direction East Force 2.

Baromet. 29.90 Amt. of Clouds 5 State of Sea S.

Weather b c z.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Albay Gulf. S.E. Luzon. Cagbalisay Pt S 22° W. Paron Pt Luzon S 56° E

Position 13° 12' 00" N. 123° 49' 18" E

Chart used: No. 4221 Ed'n _____

Drift: Direction E. Distance 1.1

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing _____ h. 20 m.

Remarks: No Sounding

Deck Officer Mr Hazard Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.		---- M.		4 M. Down.			Up. 17 M.		
						0	9	29	00	10	13	45
						100		32	50	10	10	45
						200		38	10	10	07	50
						250 ~~300~~		40	50			
						300 ~~400~~	9.	42 44	05 20	10	02	50
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
			05			2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
Legaspi Lt						2900	858 m					
						3000						
						3100	4.5 m					
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5454 Date, June 7, 1909

Sdg. Mch. Reel Shot / Lead lbs.

Turns Cor'n Depth 153 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 86° / 86° Time 10:45 A / Time 11:17 A Air 86° / 86°

Density: Surf. fms.

Wind: Direction East Force 2

Baromet. 29.89 Amt. of Clouds 4 State of Sea S.

Weather b.c.z.

Direction and Force of Current. Surface / Bottom

Tide

General Locality Albay Gulf. S.E. Luzon Legaspi Lt. S64°W. Gajo Pt. S55°E

Position 13°12'00" N. 123°50'30" E.

Chart used: No. 4221 Ed'n

Drift: Direction S79°E Distance 1.2

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 21 m.

Remarks: No sounding

Deck Officer Mr Hazard Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.		---- M.		A M. Down.			Up.	A M.	
						0	10	28	50	11	17	50
						100	10	33	20	11	14	30
						200	10	38	20	11	11	25
						300	10	43	40	11	08	00
						350 ~~400~~	10	45	35	11	06	30
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
		06				2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
Legaspi Lt						2900	S 64 W					
						3000						
						3100	5.7 m					
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog.~~ No. 5455 Date, June 7, 1909

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth 165 (Chart) fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86° Time 11:40 AM / 86° Time 12 12 Air 86° / 86°

Density: Surf. _____ fms.

Wind: Direction East. Force 3.

Baromet. 29:87 Amt. of Clouds 4 State of Sea S.

Weather Sa

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Albay Gulf S.E. Luzon Legaspi St. 5°70°W Gajo S52°E

Position 13°11'51" N. 123°51'42" E

Chart used: No. 4221 Ed'n _____

Drift: Direction S. 63°E Distance 1.1

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing _____ h. 14 m.

Remarks: No sounding
Net came up badly torn.

Deck Officer Mr Hazard Recorder Tosney
C.E. Dr Long

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.		---- M.		A. M.	Down.		Up.	P. M.	
						0	11	40	30	12	22	20
						100		45	05	12	19	15
						200		49	15	12	16	05
						300		54	40	12	13	05
						380 ~~400~~	11	58	35	12	10	15
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
		67				2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
Legazpi Lt						2800						
						2900	S70W					
						3000						
						3100						
						3200	6.7 m					
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
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						4600						
						4700						
						4800						
						4900						

Dredge / ~~Hydrog~~ No. 5456 Date, June 7, 1909

Sdg. Mch. Reel Shot / Lead lbs.

Turns No Cor'n Depth 142 fms.

Sdg. Cup Sndg Amt. Bot'm Sample (chart)

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 86° Time 12:48 / 86° Time 1:15 Air 87° / 89°

Density: Surf. fms.

Wind: Direction East Force 1 - 2

Baromet. 29.87 Amt. of Clouds 6 to 8 State of Sea S

Weather bc

Direction and Force of Current. Surface / Bottom

Tide

General Locality Legaspi St. S 76° W.; Gajo Pt. Luzon S 55° E.; Albay Gulf, S.E. Luzon.

Position 13° 11' 10" N., 123° 51' 52" E.

Chart used: No. 4221 C.S. Ed'n

Drift: Direction N. 88° W. Distance 1.3 mi

Depth of Haul 120 faths with 190 faths wire

Apparatus and Rig used 10' Intermediate, double cone.

Time towing h. 19 m.

Remarks:

Deck Officer Mr. Rohange Recorder C. E. L. Long

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. Down.			Up.	___ M.			P M. Down.			Up.	P M.	
						0	12	46	30	1	21	00
						100	12	50	30	1	17	30
						190 ~~200~~	12	55	10	1	14	10
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

08

Legaspi Lt

S 76 W

6.7 m

Dredge / Hydrog. No. 5457 Date, June 8th, 1909

Sdg. Mch. ..... Reel ..... Shot / Lead ..... lbs.

Turns ..... Cor'n ..... Depth 146 fms.

Sdg. Cup ..... Amt. Bot'm Sample by Chart.

Character of Bottom bk S (by chart)

Thermom. Make ..... No. ..... Cor'n Instr. ..... Stem. .....

Bottom Reading ..... Cor'd Temp. .....

Temp. Surf. 85° Time 9:41 a. / 86° Time 10:03 a. Air 85° / 85°

Density: Surf. ..... fms. .....

Wind: Direction ENE Force 1

Baromet. 29.91 Amt. of Clouds 9 State of Sea S

Weather bcz.

Direction and Force of Current. Surface ..... Bottom .....

Tide .....

General Locality Albay Gulf, S.E. Luzon, P.I. Legaspi Lt. S60°W – Paron Pt., Luzon,

Position 13°12'00"N – 123°49'40"E.

Chart used: No. 4221. Ed'n –

Drift: Direction S 72° E Distance 1.4 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz Fry Trawl; 6 glass floats; 2 wing weights.

Time towing – h. 20 m.

Remarks: No Sounding.

Deck Officer Mr. Rohange Recorder Arnold –

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
	M.	Down.	Up.		M.		A.	M.	Down.	Up.	A.	M.
						0	9	26	15	10	11	30
						100		29	50		08	30
						200		33	10		05	30
						300		37	40		02	25
						350 ~~400~~	9	39	30	10	00	15
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
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						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
S 54° E.			09			2400						
						2500						
						2600						
						2700						
						2800						
						2900						
Legaspi Lt						3000		S 60 W.				
						3100						
						3200						
						3300		5.		m		
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5458 Date, June 8, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth 200 (Chart) fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom No Sounding

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 85° 85° Time 2:00 P.M. Time 2:40 PM Air 87° 85°

Density: Surf. _____ fms. _____

Wind: Direction East Force 2

Baromet. 29.85 Amt. of Clouds 9 State of Sea S

Weather bcz.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Albay Gulf, SE Luzon, Batan Is (N.W.) N 42° W Babayan Pt Repurapu Is.

Position 13°10'54" N. 123°59'38" E.

Chart used: No. 4221 Ed'n _____

Drift: Direction S 56° E Distance 0.6

Depth of Haul Bottom

Apparatus and Rig used As before 250# weight added.

Time towing _____ h. 23 m.

Remarks: No Sounding

Deck Officer McRohan Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M.	Down.		Up.	___ M.			P ___ M.	Down.		Up.	P ___ M.	
						0	1	49	30	2	40	40
						100	1	52	50	2	37	20
						200	1	56	00	2	34	10
						300	2	00	25	2	31	10
						400	2	04	05	2	27	55
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
N 66°E						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

~~15~~ 11

Legaspi Lt

S 84 W
14 m

Dredge / ~~Hydrog.~~ No. 5459 Date, June 8, 1909

Sdg. Mch. _____ Reel _____ Shot / Lead _____ lbs.

Turns _____ Cor'n _____ Depth 200 (Chart) fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 85° Time 3:23 PM; 85° Time 4:06 Air 85°; 86°

Density: Surf. _____ fms.

Wind: Direction East Force 2

Baromet. 29.83. Amt. of Clouds 9 State of Sea S.

Weather b c z.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Albay Gulf S.E. Luzon Batan Is (N.W) N 41° W Babuyan Bk Repuraper Is

Position 13° 10' 21 N. 123° 59' 54 E

Chart used: No. 4221 Ed'n –

Drift: Direction N. 86° W Distance 0.8

Depth of Haul Bottom

Apparatus and Rig used 18' Agassiz Trawl 3 Wing weights, 4 glass floats. Bottom weight. Mud bag

Time towing _____ h. 20½ m.

Remarks: No Sounding

Net came up hanging by one bridle, thimble haveing carried away

Deck Officer Mr Rohang Recorder Tosner

Mr Johnson C.E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. Down.			Up.	___ M.			P. M. Down.			Up.	P. M.	
						0	3	23	30	4	14	50
						100		27	55	4	11	25
						200		32	10	4	08	10
						300		37	15	4	04	55
						400	3	41	00	4	01	30
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
N. 58°E						2500						
						2600						
			12			2700						
						2800						
						2900						
						3000						
						3100						
Legaspi Lt						3200						
						3300		S 88 W				
						3400						
						3500		14.3				
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge / Hydrog. No. 5460 Date, June 10, 1909

Sdg. Mch. Lucas Reel Lucas Shot / Lead 35 lbs.

Turns 565 Cor'n — Depth 565 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample about 1½ oz.

Character of Bottom gy. M.

Thermom. Make N. Z. No. 108015 Cor'n Instr. Stem.

Bottom Reading — Cor'd Temp.

Temp. Surf. 85° Time 8:50 / 85 Time 9:40 Air 85° / 86°

Density: Surf. fms.

Wind: Direction Variable Force 1

Baromet. 29.90 Amt. of Clouds 1 State of Sea S

Weather bc.

Direction and Force of Current. Surface Bottom

Tide

General Locality Sialat Pt. Lt. N. 24°E.; Taguntun Pt, Cantandranes Id S 84°E. (Laganoy Gulf) (Luzon)

Position 13° 32' 30" N. 123° 58' 06" E

Chart used: No. 4222 Ed'n

Drift: Direction N. 43 W. Distance 2.0 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 4 glass floats, 2 wing weights, 1 tail weight, 1 mud bag.

Time towing h. 14 m.

Remarks: Thermometer failed to work.

Deck Officer Mr. Hazard Recorder C. E. Long

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a M. Down.			Up.	a M.			a M. Down.			Up.	a M.	
8	31	60	8	42	05	0	8	47	15	10	16	10
8	32	45	8	41	15	100	8	51	10	10	12	50
8	33	35	8	40	30	200	8	55	00	10	09	25
8	34	25	8	39	45	300	8	57	30	10	05	00
8	35	15	8	39	05	400	9	00	15	10	01	30
8	36	05	8	38	20	500	9	03	10	9	58	15
8	36	40	8	37	40	565 ~~600~~	9	06	10	9	54	50
						700	9	08	55	9	51	10
						800	9	11	40	9	48	00
						900	9	14	30	9	44	50
						1000	9	17	35	9	41	20
						1100	9	20	35	9	38	00
						1150 ~~1200~~	9	22	10	9	36	10
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
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						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

17

Sialat Pt Lt

N 24 E

8.2 m

Dredge ~~Hydrog.~~ No. 5461 Date, June 14, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86° 86° Time 7:15 p. Time 9:30 p. Air 84° 85°

Density: Surf. _____ fms. _____

Wind: Direction East Force 1

Baromet. 29.91 Amt. of Clouds 5 State of Sea S.

Weather b c w l

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality San Miguel Bay S.E. Luzon
No bearings taken, night

Position 13° 57' 42" N. 123° 6' 42" E.

Chart used: No. 4223 Ed'n –

Drift: Direction E. Distance 2.5

Depth of Haul Bottom.

Apparatus and Rig used 25' Agassiz Trawl; 2 wing wts, tail wt., mud bag; 13 glass floats.

Time towing _____ h. _____ m.

Remarks: (Condemned and let overboard 300 fms. Dredge wire with kinks & other defects. June 11, 09. Arukil –)

June 14, 09. No Sounding.

Deck Officers Mr. Rohange, Mr. Johnson Recorder Arukil, Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.		---- M.		A ---- M. Down.			Up.		P ---- M.
						0	7	07	05	9	29	30
						60 ~~100~~	7	10	05	9	26	50
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
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						2900						
						3000						
						3100						
						3200						
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						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

~~29~~ 31

Gangod (B) 2,12 m

4,9 m

Dredge / Hydrog. No. 5462 Date, June 16, 1919

Sdg. Mch. Lucas Reel Lucas Shot / Lead 35 lbs.

Turns 469 Cor'n — Depth 469 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample trace

Character of Bottom gy M.

Thermom. Make NB. No. 108015 Cor'n Instr. —.7 Stem.

Bottom Reading 42° Cor'd Temp. 41.3

Temp. Surf. 85° Time 6:12 / 85° Time 7:02 Air 83° / 83

Density: Surf. fms.

Wind: Direction Various Force 0-1

Baromet. 29.90 Amt. of Clouds 10 State of Sea S

Weather O

Direction and Force of Current. Surface / Bottom

Tide

General Locality Rungus Pt ~~N.E. 4 N.~~ N 42 E; S. Tang't Caramuan Pena, ~~N 42 N.~~ N 85 W (Lagonoy Gulf)

Position 13° 40' 42" N. 123° 56' 30" E.

Chart used: No. 4222 CS Ed'n

Drift: Direction S 35° E. Distance 1.5 mi.

Depth of Haul bottom

Apparatus and Rig used 25' Agassiz trawl, 2 wing weights, 1 tail weight, 15 glass floats

Time towing h. 16½ m.

Remarks: Both bridle stops & 1 preventer carried away. Not upset but no material in bag.

Deck Officer Mr Johnson Recorder C.E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
9 M. Down.			Up.	9 M.			9 M. Down.			Up.	___ M.	
5	45	00	5	56	10	0	6	06	20	7	38	15
	46	00		55	20	100		11	35		36	05
	46	50		54	00	200		16	05		32	00
	47	45		53	05	300		19	15		28	55
	48	45		51	40	400		22	45		25	50
5	49	40	5	50	40	469 ~~500~~		26	00		22	50
						600		28	50		19	35
						700		31	45		16	00
						800		34	40		12	25
						900		38	00		08	35
						1000		41	05		05	00
						1100	6	44	10	7	00	50
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
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						2800						
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						3000						
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						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

34

Sialat Pt Lt S 80 E

5 m

Dredge ~~Hydrog.~~ No. 5463 Date, June 16, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth 300 fms.

Sdg. Cup _____ Amt. Bot'm Sample by Chart

Character of Bottom S (by Chart)

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 84° Time 10:30 a. 85° Time 10.45 a. Air 83° 84°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 2

Baromet. 29.95 Amt. of Clouds 8 State of Sea S

Weather bez.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Lagonoy Gulf SE Luzon. Rungus Pt, East side, N 18° E - Sialat

Position 13° 40' 57" N - 123° 57' 45" E.

Chart used: No. 4222 Ed'n -

Drift: Direction S 82° W Distance 0.8 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz trawl; mud bag, 2 wing weights, 1 tailweight, 4 glass floats.

Time towing - h. 17 m.

Remarks: No Sounding.

Deck Officer Mr. Hazard Recorder Antil -

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
----	M.	Down.	Up.	----	M.		a.	M.	Down.	Up.	a.	M.
						0	10	05	55	11	03	30
						100		09	00	11	00	30
						200		13	20		57	30
						300		16	35		54	30
						400		19	30		51	15
						500		24	50		48	00
						600	10	28	15	10	44	40
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
			36			1900						
						2000						
						2100						
						2200						
						2300						
						2400						
£. S74° W.						2500						
						2600						
						2700						
						2800						
						2900						
Sialat Pt Lt S74 E						3000						
						3100						
						3200	3.9 m					
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5464 Date, June 16, 19 9

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth 400 Chart fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 85° Time 1:40 PM. 82 Time 3.00 PM Air 84° 85°

Density: Surf. _____ fms.

Wind: Direction Variable Force 1-2

Baromet. 29.90 Amt. of Clouds 8 State of Sea S

Weather b.c

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Logonoy Gulf SE Luzon. Rungus Pt. East Side N 18° E Sialat St N 82° E

Position 13°39'15" N. 123°57'15" E.

Chart used: No. 4222 Ed'n _____

Drift: Direction S 40° W Distance 0.2

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing _____ h. 9 m.

Remarks: No Sounding
Net badly torn. Stops of bridle carried away.

Deck Officer Mr Rohange Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			P. M.	Down.		Up.	P. M.	
						0	1	38	45	2	58	45
						100		42	45		55	40
						200		46	40		52	45
						300		51	50		49	35
						400		55	40		46	20
						500		58	50		42	50
						600	2	01	40		38	35
						700		04	30		34	50
						800		07	25		30	30
						850 ~~900~~	2	09	00		—	—
						900 ~~1000~~	2	11	00		25	15
						950 ~~1100~~	2	12	50			
							2	14	10	2	23	45
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
		37				2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
Sialat Pt Lt N 82 E						3100						
						3200						
						3300	4.4 m					
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge ~~Hydrog.~~ No. 5465 Date, June 17, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth 500 (Chart) fms.

Sdg. Cup No Sndg Amt. Bot'm Sample _____

Character of Bottom gy M. (Mud bag)

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 84° Time 8:10 / 84° Time 9:10 Air 82½ / 83

Density: Surf. _____ fms. _____

Wind: Direction Various Force 1

Baromet. 29.94 Amt. of Clouds .8 State of Sea S

Weather bc

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Rosa Id (Middle) N. 7° W., Atulayan Id, (S.E.) S. 50° W. (Laganoy Gulf) Luzon

Position 13° 39' 42" N. 123° 40' 39" E.

Chart used: No. 4222 C.S. Ed'n _____

Drift: Direction S 59° E Distance 1.6 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz, 4 glass floats, 2 wing weights, 1 tail weight, 1 mud bag.

Time towing _____ h. 20 m.

Remarks: _____

Deck Officer Mr. Rohange Recorder C. E. Ted ong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			a M.	Down.		Up.	a M.	
						0	8	09	00	9	32	00
						100	8	13	00	9	28	30
						200	8	17	20	9	25	15
						300	8	21	40	9	21	30
						400	8	25	10	9	18	15
						500	8	28	10	9	14	30
						600	8	30	45	9	11	00
						700	8	33	30	9	07	10
						800	8	36	40	9	03	15
						880 ~~900~~	8	39	20	8	59	40
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
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						3200						
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						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

41

Atulayan I (E) S50 W

7.3 m

Dredge ~~Hydrog.~~ No. 5466 Date, June 17, 1909

Sdg. Mch. Reel Shot Lead lbs.

Turns No Cor'n Depth 540 (chart) fms.

Sdg. Cup Sindy Amt. Bot'm Sample Mud lag half full

Character of Bottom gy M.

Thermom. Make No. Cor'n Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 85° Time 10:15 86° Time 11:10 Air 84° 84½°

Density: Surf. fms.

Wind: Direction Various Force 0 - 1

Baromet. 29.94 Amt. of Clouds 7 to 9 State of Sea S.

Weather bc

Direction and Force of Current. Surface Bottom

Tide

General Locality Rosa I'd (Middle) N. 21 W. Atulayan I'd (S.E.) S 62 W. (Laganay Gulf)

Position 13° 38' 36" N. 123° 41' 45" E.

Chart used: No. 4222 C.S. Ed'n

Drift: Direction S 63° E Distance 1.6 mi.

Depth of Haul bottom

Apparatus and Rig used As before

Time towing h. 22 m.

Remarks:

Deck Officer Ms. Rohange Recorder C. E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			A. M.	Down.		Up.	A. M.	
						0	10	09	15	11	29	30
						100	10	13	25	11	26	20
						200	10	18	25	11	23	15
						300	10	22	30	11	20	15
						400	10	25	55	11	17	00
						500	10	29	30	11	13	50
						600	10	32	20	11	10	25
						700	10	35	20	11	07	10
						800	10	38	35	11	04	10
						850 ~~900~~	10	40	20	11	02	20
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

42

atulayan 8 (E) 862 m

7.7 m

Dredge ~~Hydrog.~~ No. 5467 Date, June 18, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth 480 (by chart) fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom gy. M. (Mud bag)

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 85° Time 7:52 A.M. 85° Time 8:34 Air 83° 83°

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 2

Baromet. 29.89 Amt. of Clouds 3 State of Sea S

Weather Fog.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Lagonoy Gulf S East Luzon Tiwi Pt. S27° E Atulayan Is. (S) S79° W.

Position 13° 35' 27" N 123° 37' 18" E

Chart used: No. 4222 Ed'n _____

Drift: Direction N 89° E. Distance 2.7

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing _____ h. 42 m.

Remarks: No sounding taken.

Deck Officer Mr. Rohange Mr. Johnson Recorder Amukiti Josue

II—1023

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			a M.	Down.		Up.	a M.	
						0	7	19	40	9	07	55
						100		23	10		04	35
						200		27	40	9	01	20
						300		31	20		58	00
						400		34	25		54	30
						500		37	15		51	10
						600		40	00		48	00
						700		43	15		44	35
						800		45	50		41	25
						900		49	00		38	00
						990 ~~1000~~	7	52	50	8	34	30
						1100						
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Atulayand (~~S~~) S 79 W

2,5 M

Dredge ~~Hydrog.~~ No. 5468 Date, June 18, 1929

Sdg. Mch. ..... Reel ..... Shot Lead ..... lbs.

Turns ..... Cor'n ..... Depth 5 29 (Chart) fms.

Sdg. Cup ..... Amt. Bot'm Sample .....

Character of Bottom Gr M (Mud fag)

Thermom. Make ..... No. ..... Cor'n Instr. ..... Stem. .....

Bottom Reading ..... Cor'd Temp. .....

Temp. Surf. 86° 86° Time 9:57 AM Time 10:30 AM Air 85° 84°

Density: Surf. ..... fms.

Wind: Direction SW x W Force 3

Baromet. 29.90 Amt. of Clouds 9 State of Sea 5

Weather b. c. g.

Direction and Force of Current. Surface ..... Bottom .....

Tide .....

General Locality Lagonoy Gulf SE Luzon
Tiwi Pt. S 2°E Atulayan Is. (S) S 83° W

Position 13° 35' 39" N. 123° 40' 28" E

Chart used: No. 4222 Ed'n .....

Drift: Direction East Distance 2.1

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing ..... h. 33 m.

Remarks: No coinciding

Deck Officer McJohnson Recorder Toney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.			DOWN.	UP.	---- M.		H. M.			UP.	H. M.	
						0	9	27	00	11	04	10
						100		30	55	11	00	45
						200		34	15		57	50
						300		37	35		54	40
						400		40	50		51	30
						500		43	40		48	15
						600		46	25		45	25
						700		48	50		41	25
						800		51	25		37	50
						900		54	15		34	20
						1000	9	57	55	10	30	45
						1100						
						1200						
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49

atnlayan (8) 883 m

5.7 m

Dredge ~~Hydrog.~~ No. 5469 Date, June 18, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns _____ Cor'n _____ Depth 500 (Chart) fms.

Sdg. Cup No Amt. Bot'm Sample _____

Character of Bottom Sndy. gn. M. (from Net)

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86° Time 1:00 / 86° Time 2:15 Air 84° / 84°

Density: Surf. _____ fms. _____

Wind: Direction S.S.W. Force 1

Baromet. 29.87 Amt. of Clouds 9 State of Sea Smooth

Weather bcz.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Tiwi Pt, S 16° E.; Atulayan Id (S) S 63° W. (Laganoy Gulf.)

Position 13° 36' 48" N. 123° 38' 24" E.

Chart used: No. 4222 Ed'n _____

Drift: Direction N. 86° E Distance 2.8 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz, 2 wing weights, 1 tail weight, 4 glass floats.

Time towing _____ h. 40½ m.

Remarks: _____

Deck Officer Mr. Hazard Recorder C. E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
___ M. Down.			Up.	___ M.			P M. Down.			Up.	P M.	
						0	12	58	15	2	42	20
						100	1	02	10		39	00
						200		05	30		35	00
						300		08	50		32	45
						400		11	35		29	40
						500		14	15		26	25
						600		16	50		23	20
						700		19	35		20	05
						800		22	25		16	45
						900		26	25		13	40
						1000	1	29	25	2	10	00
						1100						
						1200						
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atulayand (C) S63 W

4 m

Dredge ~~Hydrog.~~ No. 5470 Date, June ~~19~~ 18, 1909

Sdg. Mch. _____ Reel _____ Shot Lead _____ lbs.

Turns No Cor'n _____ Depth 560 fms.

Sdg. Cup S Amt. Bot'm Sample _____

Character of Bottom Sdg M (chart)

Thermom. Make _____ No. _____ Cor'n Instr. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. 86° Time 3:00 / 85° Time 4:00 Air 84° / 85°

Density: Surf. _____ _____ fms.

Wind: Direction Variable Force 0-1

Baromet. 29.83 Amt. of Clouds 10 State of Sea S.

Weather Cz.

Direction and Force of Current. Surface _____ Bottom _____

Tide _____

General Locality Lagonoy Gulf, SE Irion Tiwi Pt. S 3° W - Atulayan Id (S)

Position 13°37'30" N - 123°41'09" E

Chart used: No. 4222 Ed'n —

Drift: Direction S 50° E Distance 1.6 m

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing — h. 34 m.

Remarks:

Deck Officer Mr. Hazard Mr. Rohange Recorder C. E. DeLong Stratil

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M. Down.			Up.	---- M.			P. M. Down.			Up.	P. M.	
						0	2	53	45	4	35	05
						100	2	57	25		31	25
						200	3	01	00		28	15
						300		04	20		25	00
						400		07	00		21	50
						500		09	40		18	30
						600		12	25		15	15
						700		15	20		11	50
						800		18	10		08	10
						900		22	40		04	35
						1000	3	26	00	4	00	30
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S 68 W — 51

Atulayan Is (E) S 68 W

6.7 m

Dredge ~~Hydrog.~~ No. 5471 Date, June 19, 1909

Sdg. Mch. Reel Shot Lead lbs.

Turns Cor'n Depth 568 Chart. fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. Make No. Cor'n Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 84° 84° Time 9:17 AM Time 9:45 AM Air 80° 81°

Density: Surf. fms.

Wind: Direction W. S. W. Force 3

Baromet. 29.89 Amt. of Clouds 10. State of Sea S.

Weather O. p.

Direction and Force of Current. Surface Bottom

Tide

General Locality Lagonay Gulf. S East Luzon Rosa Is. N. 42° W. Rungus Pt. N 55° E

Position 13°34'57" N. 123°47'06" E

Chart used: No. 4222 Ed'n

Drift: Direction S. 60° E Distance 2.1.

Depth of Haul Bottom.

Apparatus and Rig used As before.

No mud bag.

Time towing h. 28 m.

Remarks: No Sounding

Deck Officer M. Hazard Recorder Tosney

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
----	M. Down.		Up.	----	M.		A.	M. Down.		Up.	A.	M.
						0	8	47	10	10	18	00
						100		51	20		14	45
						200		54	40		11	45
						300		57	20		08	30
						400	9	00	05		05	25
						500		03	05	10	02	15
						600		05	40		59	00
						700		08	20		56	00
						800		11	10		52	45
						900		14	15		49	35
						1000	9	17	00	9	45	35
						1100						
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~~Atulayan I~~

Sialat Pt Lt

Dredge / ~~Hydrog.~~ No. 5472 Date June 19, 1909

Sdg. Mch. Reel Shot / Lead lbs.

Turns Cor'n Depth 550 fms. By chart.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. Make / No. Cor'n Instr. / Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 85° Time 11:00 A.M. / 85° Time 11:36 A.M. Air 83° / 84°

Density: Surf. fms.

Wind: Direction Variable Force 2-3

Baromet. 29:86 Amt. of Clouds 10 State of Sea S.

Weather o.p.

Direction and Force of Current. Surface / Bottom

Tide

General Locality Alto Pt. N. 46° W. Rungus Pt. N. 45° E. (Lagonoy Gulf)

Position 13° 33' 36" N.; 123° 49' 00" E

Chart used: No. 4222 Ed'n

Drift: Direction S 62° E. Distance 1.7 mi

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 25 m.

Remarks: No sounding

Cumulator registered from 4 to 5 tons while heaving in; 3½ tons when stopped at surface with net submerged. 2 Bridle stops carried away with net at surface; and lashing also losing load.

Deck Officer Mr. Hazard Recorder Tosney

Mr. Rohange C. E. DeLong.

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
---- M.	Down.		Up.	---- M.			A M.	Down.		Up.	A M.	
						0	10	35	00	12	17	40
						100		38	50		13	40
						200		42	35		10	10
						300		47	30		06	30
						400		50	30	12	02	40
						500		54	20		59	00
						600		57	25		55	05
						700	11	00	10		51	00
						800		02	35		47	15
						900		05	40		43	45
						1000		08	40		39	50
						1100	11	11	35	11	36	05
						1200						
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54

Sialat Pt Lt N 63 E

13.6 m

Dredge / ~~Hydrog.~~ No. 5473 Date, June 17, 1909

Sdg. Mch. Lucas Reel Lucas Shot / Lead 35 lbs.

Turns 545 Cor'n — Depth 545 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1 oz

Character of Bottom gy. M.; S.

Thermom. Make N.Z. No. 108015 Cor'n Instr. -.7 Stem.

Bottom Reading 41° Cor'd Temp. 40.3

Temp. Surf. 86° Time 2:15 / 85° Time 3:15 Air 85° / 85

Density: Surf. fms.

Wind: Direction Variable Force

Baromet. 29.80 Amt. of Clouds 9 State of Sea S

Weather bcz.

Direction and Force of Current. Surface / Bottom

Tide

General Locality Nanalang Pt. S18°E.; San Miguel Pt. West. (Lagonoy Gulf.)

Position 13° 24' 15" N. 124° 02' 48" E

Chart used: No. 4221 C.S. Ed'n

Drift: Direction S. 41° E. Distance 1.2 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R., 1. tail weight, 2 wing weights, 4 glass floats

Time towing h. 15 m.

Remarks: Bridle stops carried away.

Deck Officer Mr. Rohanger Recorder C.E. DeLong

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up.	P. M.			P. M. Down.			Up.	P. M.	
1	59	10	2	10	00	0	2	14	20	3	55	00
2	00	15		09	15	100		18	00		51	30
	01	10		08	35	200		21	00		48	40
	02	10		07	50	300		24	10		45	35
	03	10		07	05	400		27	10		31	45
	04	10		06	15	500		29	55		28	40
2	04	40	2	05	40	545 ~~600~~		32	30		25	40
						700		35	05		21	35
						800		37	45		16	15
						900	×	40	40		12	30
						1000	2	48	40	3	03	30
						1100						
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						1600	× When 900 fath was					
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55

East Pt (Batam) S 20 E

8.9 m

Dredge / Hydrog. No. 5474 Date, June 24, 1909

Sdg. Mch. T. N. Reel TN ~~Shot~~ Lead 25 lbs.

Turns 154 Cor'n (155=125) Depth 124 fms.

Sdg. Cup arming Amt. Bot'm Sample trace

Character of Bottom S.

Thermom. Make — none used No. Cor'n Instr. Stem.

Bottom Reading — Cor'd Temp.

Temp. Surf. 82° Time 7:38 a. 82° Time 7:52 a. Air 82° 82°

Density: Surf. fms.

Wind: Direction NE Force 2

Baromet. 29.89 Amt. of Clouds 9 State of Sea S

Weather Vcs.

Direction and Force of Current. Surface Bottom

Tide

General Locality Pacific Ocean.

Gubat Church N. 82° W. San Bernardino Lt.

Position 12° 53' 48" N. 124° 18' 00" E

Chart used: No. 4220 Ed'n —

Drift: Direction S. 58° W. Distance 0.8

Depth of Haul Bottom.

Apparatus and Rig used as before.

Time towing h. 16 m.

Remarks:

Deck Officer Mr. Rohange Recorder [illegible]

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
a	M. Down.		Up.	a	M.		a	M. Down.		Up.	a	M.
7	16	25	7	22	00	0	7	25	50	8	00	55
	17	20		19	40	100		29	55		57	40
7	17	55	7	17	55	15 200		34	30		54	25
						300	7	36	40	7	52	35
						400						
						500						
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						4800						
						4900						

S. Bernardino Ft 86 N

8.4 m

Dredge ~~Hydrog.~~ No. 5475. Date, June 24, 1909.

Sdg. Mch. Lucas Reel L. Shot ~~Lead~~ 35 lbs.

Turns Cor'n Depth 195 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample Trace

Character of Bottom Sh.

Thermom. Make N. J. No. 108015 Cor'n Instr. -.7 Stem.

Bottom Reading 60° Cor'd Temp. 59.3

Temp. Surf. 82° Time 9:15 A. 82° Time 9.31 A Air 85° 85°

Density: Surf. fms. -

Wind: Direction N.N.E. Force 2-3

Baromet. 29:87 Amt. of Clouds 5. State of Sea S.

Weather b c g

Direction and Force of Current. Surface Bottom

Tide

Bingay General Locality Pacific Ocean

~~Gabot~~ Pt. Luzon N 51° W San Bernardino St.

Position 12°55'26" N. 124°22'12" E.

Chart used: No. 4220 Ed'n

Drift: Direction N. 82° W. Distance 1.2

Depth of Haul Bottom

Apparatus and Rig used As before

Time towing h. 16 m.

Remarks:

Deck Officer Mr Johnson Recorder Tosnell

11—1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
17 M. Down.			Up. 17 M.				17 M. Down.			Up. 17 M.		
8	48	.		53	30	0	8	57	35	9	45	10
	49	45		52	40	100	9	01	05		42	00
8	50	35	8	51	35	195 200		06	05		38	50
						300		10	40		35	40
						400	9	15	10	9	31	55
						500						
						600						
						700						
						800						
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13-11-10 / 123-51-57(2)

Leg Pt S 76 W

Sajo Pt S 55 E.

505/144

32 - 80
12 - 50
20 - 30

63 - 65
48 - 50
14 - 15

33 - 50
6 - 10
27 - 20

34 - 100
28 - 50
6 - 50

3 - 25
29 - 50
32 - 15

10 - 108 - 50
9 - 52 - 25
52 - 25
51

17
3