

The Preparatory Survey for the Project for Enhancement of Safety in Apia Port

Tug Boat Inspection Report T/B ATAFA



Augsut 2014

Oriental Consultants Co., Ltd.

Main particulars

Ship's Name	T/B ATAFA		
Owner	Government of SAMOA		
Classification society	Lloy's Register of Shipping (LR)		
Port of registry	APIA		
IMO No.	9247170		
Official No.	0044		
CALL SIGN	5WDX		
Navigation Area	Port of APIA ship's turning area		
Loa (length over-all)	25.90	m	
Lpp (length between perpendiculars)	23.10	m	
B (moulded)	6.80	m	
D (moulded)	2.80	m	
d (design moulded)	2.10	m	
Gross Tonnage	121	ton	
Speed (trial max. at light condition)	12.0	knots	
Towing power	205	kN (20.9 tf)	
Complement	9	P	
Main engine	4 cycle marine diesel engine	2	sets
	Max. power	588	kW (800ps)
	Rated revolution	900	min-1
Generator engine	4 cycle marine diesel engine	1	sets
	Max. power	45.60	kW (62ps)
	Rated revolution	1500	min-1
	4 cycle marine diesel engine	1	sets
	Max. power	27.93	kW (38ps)
	Rated revolution	1500	min-1
Propeller	4-braid fixed pitch propeller D=1,650 P=1,980 Nakashima	2	sets
Rudder	Hydraulic oil steering gear system with kort nozzle type	2	sets
Tank capacity	Fuel oil tank	27.05	m ³
	Lubricating oil tank	*	m ³ (Oil pan type)
	Fresh water tank	13.19	m ³
Builder	Kanagawa dry dock Co.,Ltd. Kobe JAPAN		
Year built	2001		
Captain	Mr. Lagisi Tauinaola Mr. Alaifetu Seisoka		
C/Engineer	Mr. Pita Sione Mr. Tarita Saipele		

Nº	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
1	Outside shell Starboard side			No good	Repair

Photograph



Nº	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
2	Outside shell Port Side			Nn good	Repair

Photograph



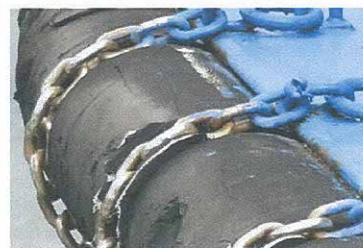
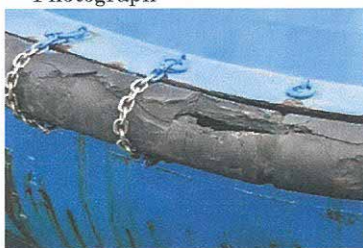
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
3	Outside shell	Rubber fender Fore	SHIBATA L=9000 11x780 OD : ϕ 500 ID : ϕ 250/90	No good	Repair (60x30)

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
4	Outside shell	Rubber fender Aft	SHIBATA L=11000 17x630 OD : ϕ 300 ID : ϕ 150/75	No good	Repair (60x30)

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
5	Upper deck Fore	Bulwark & Bulwark stay Deck plate	Deck : 7.0t B. Top : 9.5t B. Stay : 6.0t	Curve damage & Corrosive	Repair

Photograph



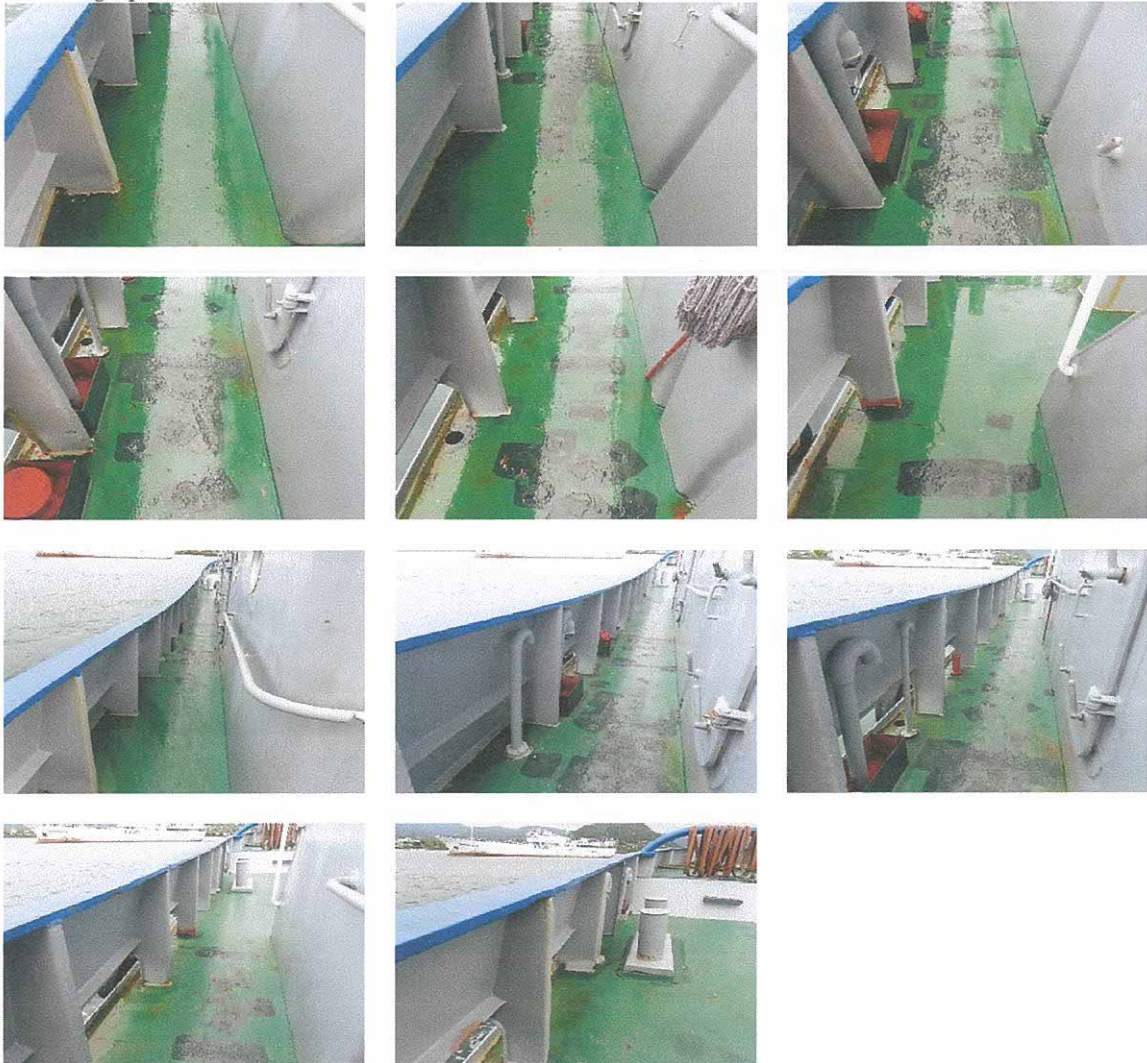
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
6	Upper deck midship area (Port side)	Bulwark & Bulwark stay Deck plate	Deck : 7.0t B. Top : 9.5t B. Stay : 6.0t	Curve damage & Corrosive Corrosive damage	Repair

Photograph



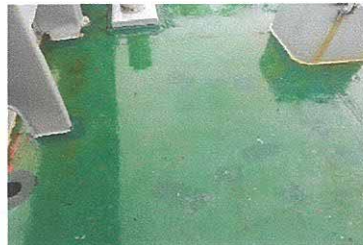
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
7	Upper deck midship area (Starbord side)	Bulwark & Bulwark stay Deck plate	Deck : 7.0t B. Top : 9.5t B. Stay : 6.0t	Curve damage & Corrosive Corrosive damage	Repair

Photograph



Nº	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
8	Upper deck Aft	Bulwark & Bulwark stay plate Deck plate Capstan Hatch	Deck : 7.0t B. Top : 9.5t B. Stay : 6.0t	Curve damage & Corrosive Corrosive damage No Good Corrosive	Repair Repair Renew Repair

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
9	Upper deck Fore	Bollard	200A(Sch40) h : 550	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
10	Upper Deck Aft	Bollard	200A(Sch40) h : 550	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
11	Upper deck Fore	Mooring pipe	JIS F 2007-A250	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
12	Upper deck Aft	Mooring pipe	JIS F 2007-A250	Corrosive Damage	Painting

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
13	Upper deck Fore	Windlass	MASADA IRON WORKS CO.,LTD Type : MSW-1 1.5T x 9m/min Motor : 5.5kw x 935rpm	Good	Maintenance Gear cover repair

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
14	Upper deck Fore	Windlass base	Steel	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
15	Upper deck Fore	Windlass controller	MASADA IRON WORKS CO.,LTD	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
16	Navigation bridge deck Wheel house	Navigation control panel	HANSHIN ELECT. Type : DP M. No. : 78729 STEERING GEAR KITAGAWA KOGYO Type : KE-W85A-TT-AR-MP M. No. : S01012	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
17	Navigation bridge deck Wheel house Radar mast	Radar display unit Radar scanner	FURUNO Type : RDP-122 S. No. : 3374-2217 ADB9ZWF7R7112	No Good No Good	Renew Renew

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
18	Navigation bridge deck Wheel house	Air horn time Controller	IBUKI KOGYO No. : 52233	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
19	Navigation bridge deck Wheel house	Gyro compass & Repeater	TOKIMEC Type : ES110 Repeater S. No. : 4745	No good	Repair or Renew
Photograph 					
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
20	Navigation bridge deck Wheel house	Magnetic compass	DAIKO KEIKI Type : T-150SLK M. No. : 1498	Good	
Photograph 					
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
21	Navigation bridge deck Wheel house	Echosounder	FURUNO Type : FE-700	Good	
Photograph 					
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
22	Navigation bridge deck Wheel house	Rudder angle indicator	KITAKO	Good	
Photograph 					

No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
23	Navigation bridge deck Wheel house	GPS Navigation	FURUNO Type : GP-80	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
24	Navigation bridge deck Wheel House	Nvi. & Comm. dist panel Light switch panel		Good Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
25	Navigation bridge deck Wheel house	SSB Transeiver Microphone amplifier VHF Radio telephone Weather facsimile	FURUNO Type : FS-1503 UNI-PEC FURUNO Type : FM-8700 FURUNO Type : FAX-208 M II	Good Good Good Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
26	Navigation bridge deck	Deck Plate	Deck : 6.0t	No Good	Repair

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
27	Navigation bridge deck	Life raft EPIRB Radar transponder		Good Good Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
28	Navigation bridge deck	Towing hook	Type : 25T	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
29	Navigation bridge deck	Funnel & sky light Deck crane	Steel NIPPON ICAN M. No. 40702089 Capacity : 1.0Tx3.0M	Good No good	Maintenance Hydraulic oil leak out(Cylinder)

Photograph



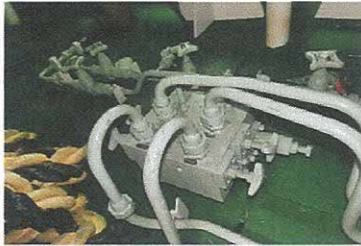
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
30	Wheel House Top	Water nozzle(65A) Speaker TV antenna Search light		Good Good No good No good	Maintenance Maintenance Renew and check Reflection mirror change

Photograph



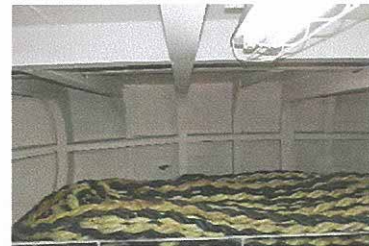
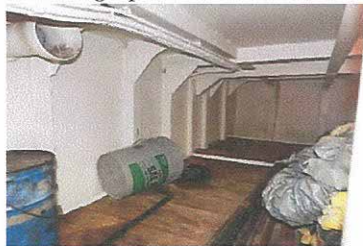
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
31	Steering gear room	Steering gear unit & Hydraulic oil pump unit		Good	Hydraulic oil cylinder(Starboard Side) leak out

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
32	Steering gear room	Side shell plate & Frame		Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
33	Upper deck accommodation space	Mess room		Good	Repiar of sofa

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
34	Galley space	Electric water boiler Electric refrigertor Electric range Sink		Good Good Good Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
35	Upper deck accommodation space	Toilet Shower Room		Good Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
36	Upper deck accommodation space	Air conditionig unit	DAIKIN	Good	Maintenance

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
37	Hold	C/Enginner room & Crew's room		Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
38	Hold	Bosn's store	Floor Side shell & frame	Good Good	Wooden cover

Photograph



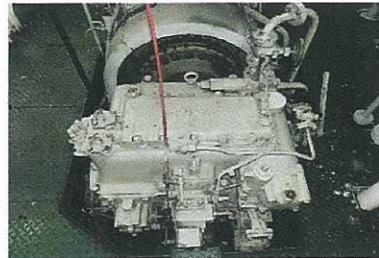
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
39	Hold	Chain locker		Good	No open

Photograph



N ^o	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
40	Engine room	Main engine & Reduction gear (Starboard side)	YANMER M200-SN 800PSx900min-1 S. No. : FN30405 R/G:Y50U 2N 3420 S/C:IHI-BBC	Good	Maintenance (Parts)

Photograph



N ^o	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
41	Engine room	Main engine & Reduction gear (Port side)	YANMER M200-SN 800PSx900min-1 S. No. : FN30404 R/G:Y50UN 2N 8402 S/C:IHI-BBC	Good	Maintenance (Parts) Supercharger noise & Reduction gear noise check (Shaft & Ball bearing)

Photograph



N ^o	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
42	Engine room	Generator engine & Generator (Center)	YANMAR 6CHL-N 62ps 1500rpm E No. : 0757 TAIYO FB-25B 50kVA	Good	Maintenance (Parts)

Photograph



N ^o	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
43	Engine room	Generator engine & H. Generator (Starboard side)	YANMAR 4CHL-N 38ps 1500rpm E. No. : 00966 TAIYO FB-22D 30kVA	Good	Maintenance (Parts) Renew punp crutch

Photograph



N ^o	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
44	Engine room (Starboard Side)	Fire pump	DAIICHI Type : TA40/2 Capacity : 30m ³ /h Head : 50m	No good	Renew Maintenance training

Photograph



N ^o	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
45	Engine room	Air compressor	MATSUBARA Type : MS70R Motor : ONISHI Type : Sf-JR 5.5KW	Good	

tograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
46	Engine room	Air compressor tank	YANMER	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
47	Engine room	Fresh water cooler (Above) & Lub. oil cooler (Under) (Port & Starboard side)	YANMER	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
48	Engine room	Bilge & G.S Pump	PUMP Type : SMH65M MOTOR TAIYO ELECT. Type : TIT-112M 3.7kw x 1460rpm		

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
49	Engine room	Oily water separator & Biudge pump	TAIKO KIKAI Type : USC-0.5 S. No. H11G.27	Good	

Photograph



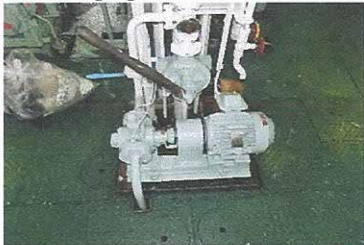
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
50	Engine room	Sludge Pump		Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
51	Engine room	Fuel Oil Transfer Pump	TAIYO ELECT. Type : TIT-90L 0.75Kw	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
52	Engine room	Hydraulic oil pump	Mannesmann Rexrith GmbH Austria Prod. No. : A104-040	Good	

Photograph



Nº	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
53	Engine room	Sewage discharge pump (Starboard side)	SANSHIN Type : UH-40M Motor : 0.75KW	Good	

Photograph



Nº	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
54	Engine room	Lub. oil fine filter (Port & Starboard)	OSAKA DENNETU No. 36035 Capacity : 2KW	Good	

Photograph



Nº	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
55	Engine room	A/C Cooling sea water pump	Australian Type : JSM100 Capacity : 0.3KW	Good	

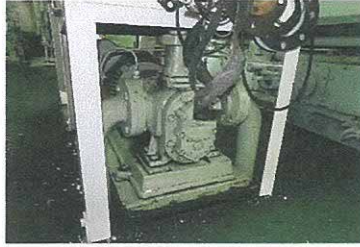
Photograph



A handwritten signature in blue ink, consisting of stylized letters and a flourish.

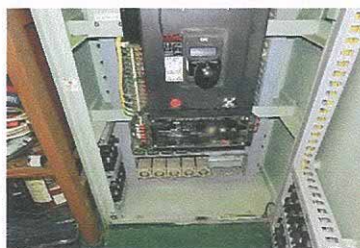
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
56	Engine room	Stanby LO pump	SANSHIN Type : GRD65A-M Capacity : 3.7KWx 1.1 m ³ /h	Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
57	Engine room	Electric switch panel		Good	Maintenance Insulation resistance test

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
58	Engine room	Side shell plate & Frame		Good	

Photograph



No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
59	Engine room	Side shell plate & Frame		Good	

Photograph



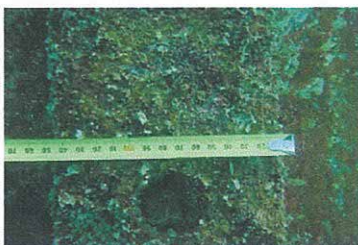
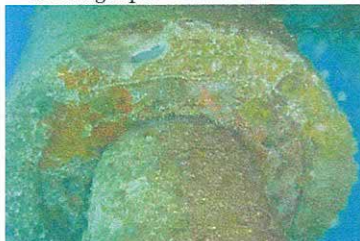
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
60	Engine room	Tanks	LOST Power GAN42 330L LOT(S) Power GAN42 650L FOGT AFO 950L LOT(P) Power GAN42 650L Light oil 330L	Good	

Photograph



SHIP'S NAME: T/D ATAPA					
No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
61	After Equipment (Port side)	Propeller	FPP D=1650 P=1980		Maintenance
		Propeller shaft			Maintenance
		Shaft bracket			Maintenance
		Kort nozzle			Maintenance
		Stern tube	50x150x300 T.Qty:23		Maintenance
		Rudder			Maintenance
		Rudder stock			Maintenance
		Zinc anode plate			Maintenance

Photograph

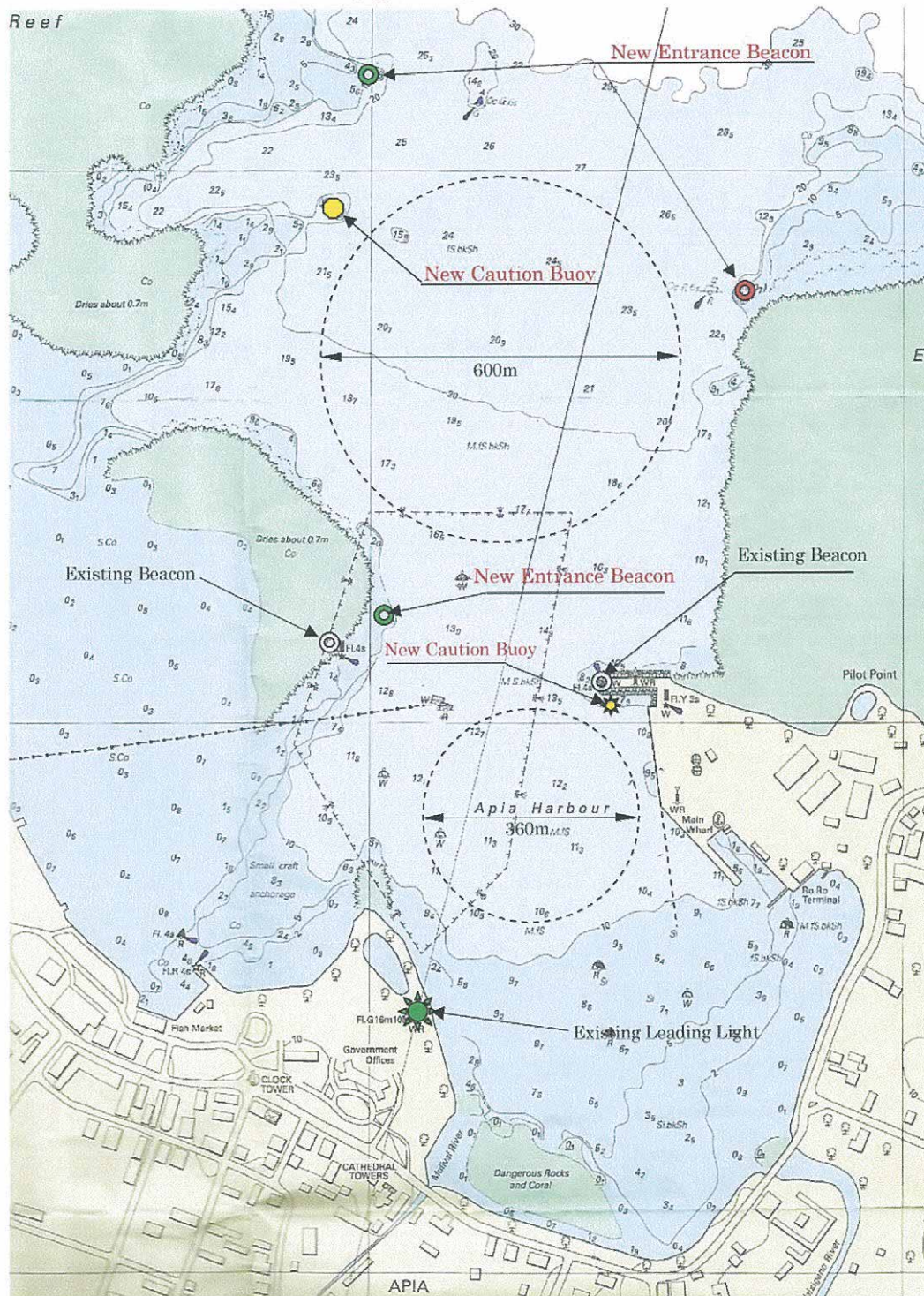


No	LOCATION	NAME	SPECIFICATION	CONDITION	REMARK
62	After Equipment (Starboard side)	Propeller	FPP D=1650 P=1980		Maintenance
		Propeller shaft			Maintenance
		Shaft bracket			Maintenance
		Kort nozzle			Maintenance
		Stern tube	50x150x300 T.Qty:23		Maintenance
		Rudder			Maintenance
		Rudder shaft			Maintenance
		Zinc anode plate			Maintenance

Photograph

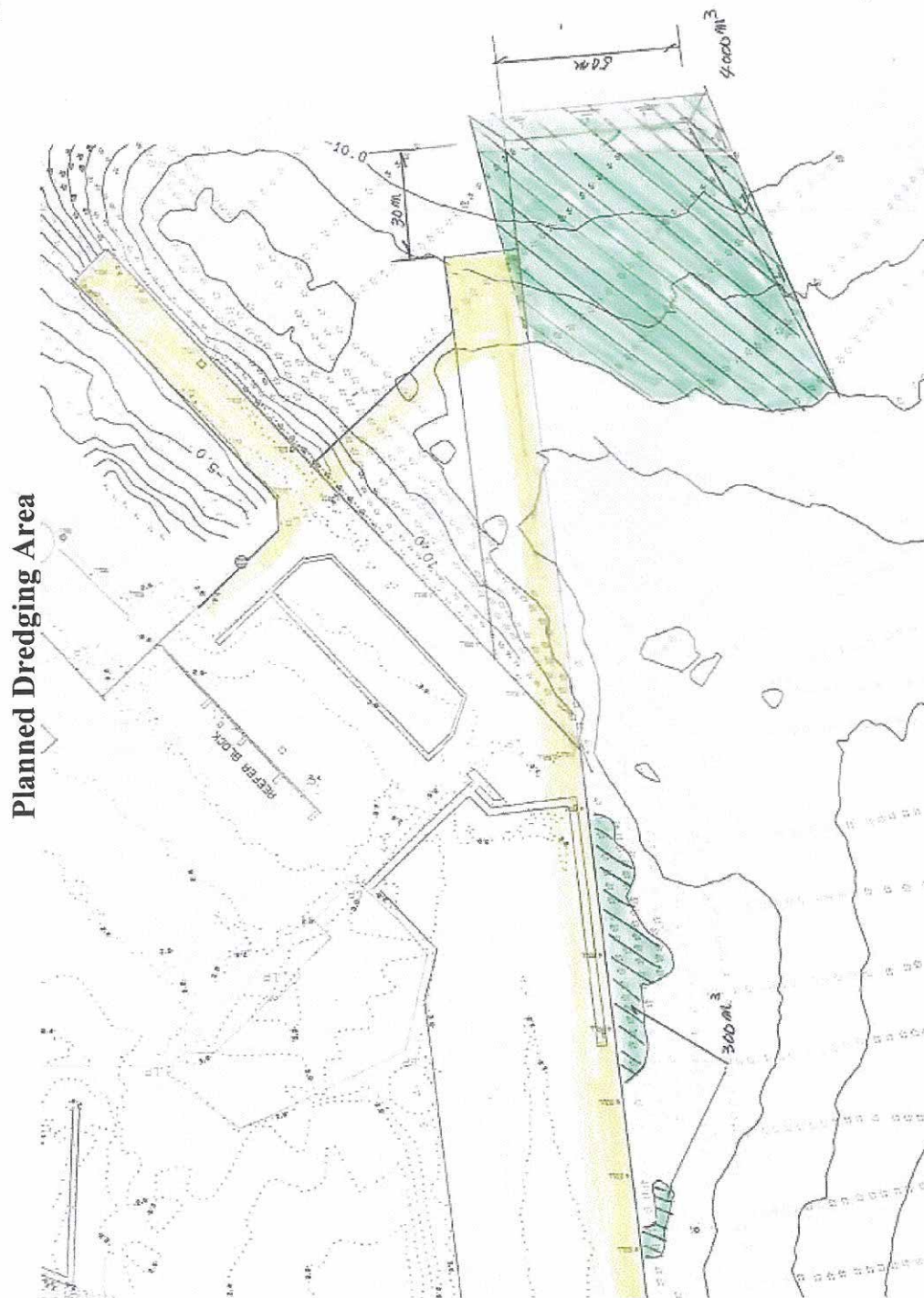


Rehabilitation and Upgrading Concept for Navigation Aids



A07-1

A4-3-69



A08-1

Necessary Process for Development Consent Approval to be conducted by SPA

Development Consent

- Application form
- +
- Site plan and drawings
- +
- EIA report
- +
- Report of Public Consultation
- +
- Fee: 2,000\$

Public Consultation

- To notify the project to the stakeholders (port users, related companies, nearby residents and restaurants)
- Requirements shall be reflected in the project



Contents of report for the Development Consents

- Date and venue of the consultation
- List of participants
- Agenda
- Major discussions and requirements
- Response to the requirements
- Agreement from affected people

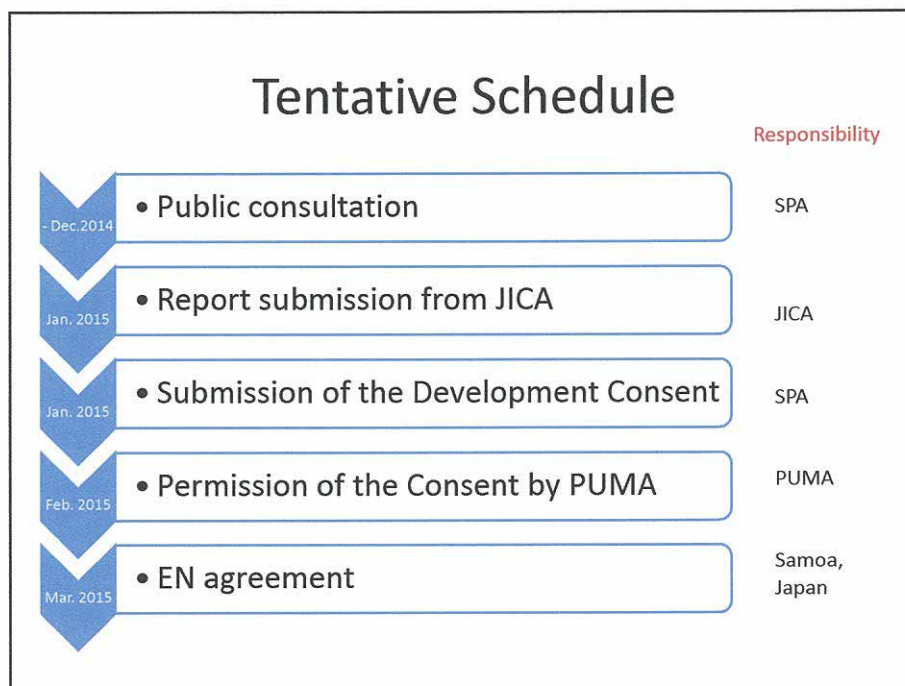
IEE Report by JICA Study Team

- Project component
- Base line data
- Legal framework in Samoa
- Project alternatives
- Scoping and TOR
- Environmental impact assessment
- Mitigation measures
- Monitoring plan
- Stakeholder meeting (Public consultation)

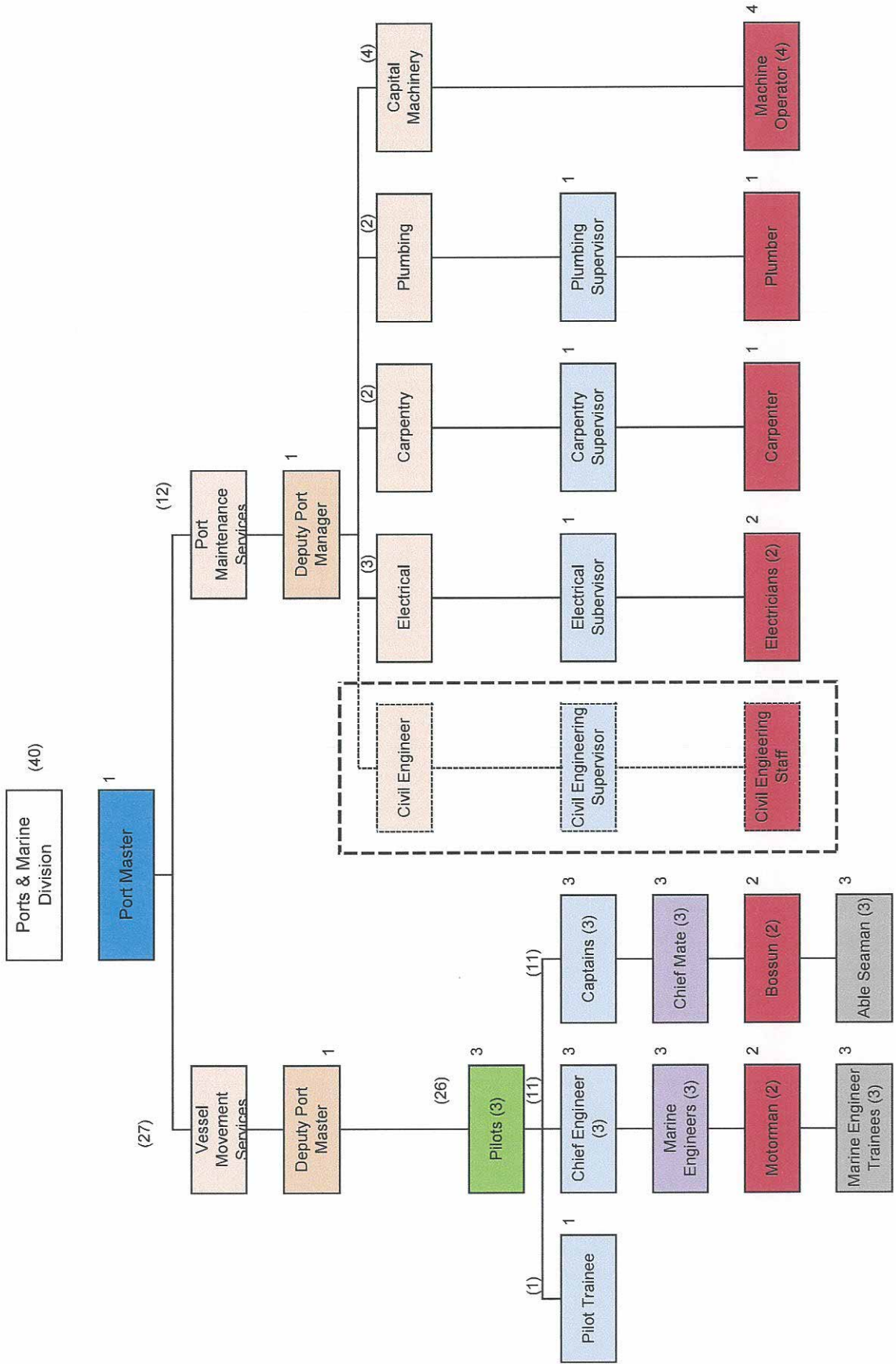
Disposal land area

- Necessary measures to reduce turbid water from the dredged material
- Necessary measures to avoid discharge of seepage water to the Palolo Deep (Marine Protected Area)





Improvement Plan of SPA Organization for Civil Engineering Division



A10-1

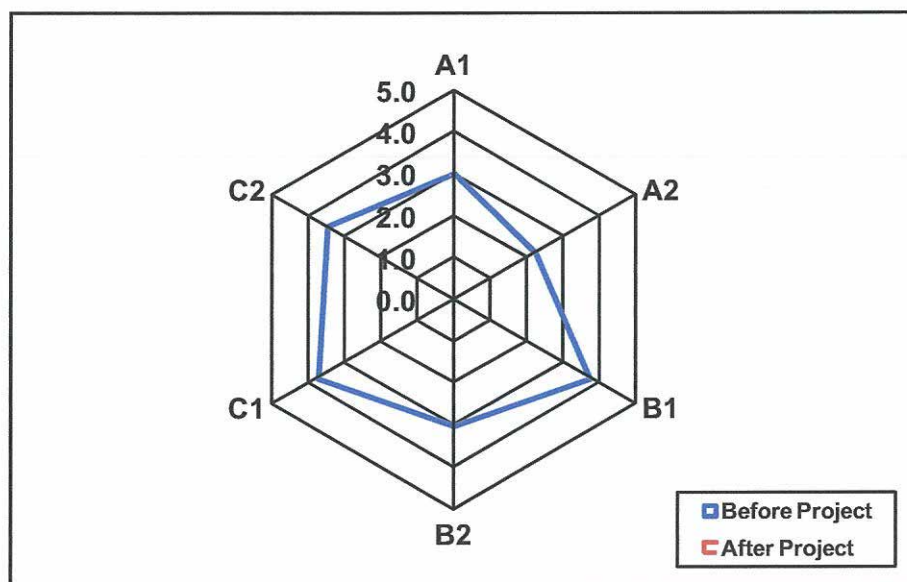
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**Preliminary Estimation of Necessary Annual Maintenance Costs
for
the Project for the Enhancement of Safety in Apia Port**

1 Manpower				in WS\$
Annual Wage	Unit Rate	Nos	Unit	Total
1) Civil Engineer for Maintenance	5,000	12	month	60,000
2) Mechanical Engineer for Maintenance	5,000	12	month	60,000
2 Maintenance Fee				
1) Fenders	22,500	1	L.S	22,500
a. Replacement of fender panel				
b. Check of bolt tensions and fixing				
c. Painting				
2) Bollards	4,500	1	L.S	4,500
a. Painting				
3) Navigation Lights	22,500	1	L.S	22,500
a. Battery replacement				
b. Electrical panel maintenance				
4) Concrete Deck (Wharf)	45,000	1	L.S	45,000
a. Repair of concrete cracks				
b. Repair of pile head concrete of old wharf				
5) Container Yard	90,000	1	L.S	90,000
a. Repair of damaged concrete pavement				
b. Painting of vehicle flow indicators				
c. Maintenance of yard lights, refer plugs and others				
d. Maintenance of pipelines				
6) Fence and Road	45,000	1	L.S	45,000
a. Pavement overlay (repair)				
7) Tug Boat and Equipment	135,000	1	L.S	135,000
a. Docking (one time per every two years)				
b. Removal of shells ship bottom				
c. Painting of ship bodies				
Total				364,500

A11-1

Tentative Results of Questionnaire Survey (Baseline Survey of the Project Effects Evaluations)



**Opinion of Shipping Agents
Present Conditions of Port Safety in Apia Port**

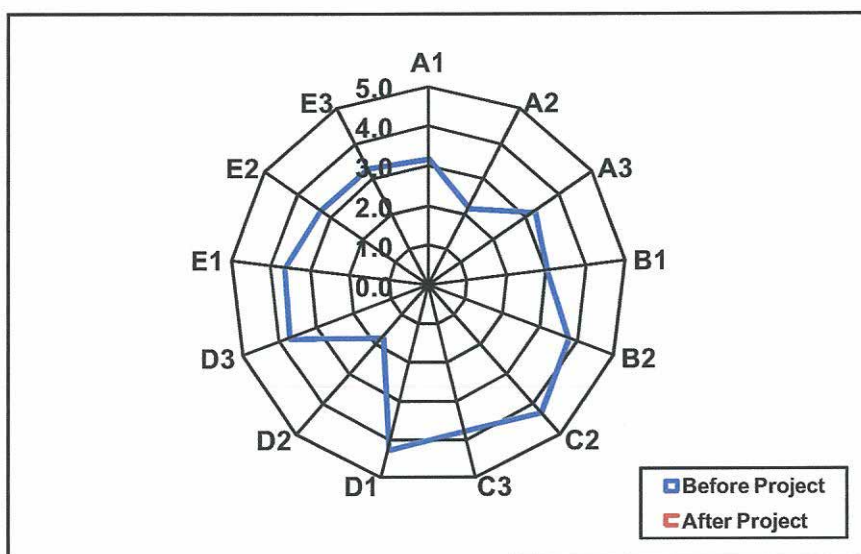
Questions, Scoring System and Obtained Average Scores

No.	unloading operations?	Scoring System			Obtained Average Score	
		1	3	5	Before Project	After Project
A1	Container Yard: Pavement Conditions	Not enough	Acceptable	Well enough	3.0	
A2	Container Yard: Space for Safety Cargo Handling	Not enough	Acceptable	Well enough	2.3	
B1	Wharf: Width for Safety Cargo Handling	Not enough	Acceptable	Well enough	3.8	
B2	Wharf: Length for Safety Cargo Handling	Not enough	Acceptable	Well enough	3.0	
C1	Passenger Flow: Safety of the Passenger Flows	Danger	Average	Safe	3.8	
C2	Passenger Flow: Separation from Cargo Handling	Not separated	Fairly separated	Separated	3.5	

Data Source: JICA Survey Team

As August 4th (2014) Survey

Opinions of Shipping Agents Opinion about the Present Conditions of Safety in Apia Port



Opinions of Ship Crews
Present Conditions of Port Safety in Apia Port

Questions, Scoring System and Obtained Average Scores

No.	Questions	Scoring System			Obtained Average Score	
		1	3	5	Before Project	After Project
A1	Navigation Aids: Leading Light Conditions	Not enough	Acceptable	Well enough	3.2	
A2	Navigation Aids: Entrance Marker Conditions	Not enough	Acceptable	Well enough	2.2	
A3	Navigation Aids: Conditions of other Navigation Aids	Not enough	Acceptable	Well enough	3.3	
B1	Tug Boats: Tug Boat Powers	Not enough	Acceptable	Well enough	3.0	
B2	Tug Boats: Safety of Present Tug Boats Attends	Un Safe	Acceptable	Safe	3.8	
C2	Turnign Basin: Width	Not enough	Acceptable	Sufficient enough	4.3	
C3	Turing Basin: Water Depth	Not enough	Fair	Excellent	3.8	
D1	Wharf: Length	Not enough	Acceptable	Well enough	4.3	
D2	Wharf: Fender System	Not enough	Acceptable	Well enough	1.8	
D3	Wharf: Mooring Bits	Not enough	Acceptable	Well enough	3.8	
E1	Cargo Handling: Fluency	Not enough	Acceptable	Well enough	3.7	
E2	Cargo Handling: Safety	Danger	Average	Safe	3.3	
E3	Cargo Handling: Carefullness	Bad	Average	Good	3.3	

Data Source: JICA Survey Team

As August 4th (2014) Survey

Opinions of Ship Crews
Opinion about the Present Conditions of Safety in Apia Port

A12-2



SAMOA PORTS AUTHORITY

P O Box 2279, Matautu Tai, Apia, Samoa Phone (685) 64400 Fax: (685) 25870
Email: spa@spasamoa.ws or tufugafagaloa@spasamoa.ws Website: www.spasamoa.ws

15 July 2014

To: Whom It May Concern
Subject: Enhancement of Safety at the Apia Port Study

Dear Sir or Madam,

The Samoa Ports Authority is undertaking a study to enhance safety at the Apia Port. The objectives of the study are to investigate:

A wharf extension, fender rehabilitation, rehabilitation and upgrading of navigation aids, life-prolonging treatment of tug boats and others it may contribute to the safety enhancement of Apia port.

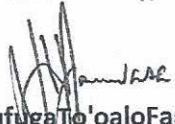
The consultants; Oriental Consultants, Co., Ltd., a Japanese Engineering Consulting firm, are currently conducting a Preparatory Survey for the Enhancement of Safety in Apia Port under the contract with Japan International Cooperation Agency (JICA). In the duties of their study; Oriental Consultants, Co Ltd has prepared a survey questionnaire to establish various Project Evaluation Indices, both pre and post the planned improvements.

I am writing to ask your assistance in providing the consultants with information related to the safety evaluation and any other information that will assist them in their work.

Thank you for your assistance in this matter.

Should you require additional information, please do not hesitate to contact me.

Yours faithfully,


Tufuga To'oalo Fagaloa Tufuga
Chief Executive Officer / General Manager
Samoa Ports Authority
P.O.Box 2279, Matautu-tai, Apia, Samoa

Tel: (685) 64400 / 64444 – Fax: (685) 25870 / 23521



QUESTIONNAIRE ON PORT USERS SATISFACTION ON SAFETY MEASURES OF APIA PORT, SAMOA

We, Oriental Consultants, Co., Ltd., a Japanese Engineering Consulting firm, are currently conducting a Preparatory Survey for the Enhancement of Safety in Apia Port in the Independent State of Samoa, under the contract with Japan International Cooperation Agency (JICA). The Project is planned to include the components such as wharf extension, fender rehabilitation, rehabilitation and upgrading of navigation aids, life-prolonging treatment of tug boats and others it may contribute to the safety enhancement of Apia port.

The purpose of this questionnaire is to establish the Project Evaluation Indices. Same questionnaire surveys may be conducted before and after the project to evaluate how increase the rating of safety of the port.

Answering of this questionnaire is used only for the project evaluation purpose and no obligations are requested. It would be highly appreciate if you will answer of this questionnaire and send back to us by the following address

Mr. Masahiko Koshimizu, e-mail: kosh-404@oriconsul.com
Mr. Ryota Mizuno, e-mail: mizuno-rt@oriconsul.com

FAX: +81-3-6311-8043
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Masahiko Koshimizu
Project Manager,
Port & Harbor Dept.
Global Consulting H.Q.
Oriental Consultants Co., Ltd.

I. Please give us information on your position and ship. (* Please describe the item number on the line.)

1. Your Positions in the Ship

- a. Captain b. Chief (First) Officer
c. Second Officer d. Others

Your Answer: _____

If your answer is d, please specify your position: _____

2. Your ship category

- a. Container ship b. General Cargo ship
c. Oil/Gas Tanker d. Cruise ship
e. Others

Your Answer: _____

If your answer is e, please specify the ship: _____

2. Your ship size

L.O.A. _____ m, Breath _____ m

Max. Df. _____ m

Tonnage _____ (GT or DWT, please select)

Ship Name: (if available): _____

II. Please give us your opinion about the following facility conditions at APIA Port on the "Safety" point of view.

(*Please write down your rating 1 to 5 on the line.)

A: Navigation Aids

A1. Are the leading light conditions sufficient enough for the safety navigation when entering to the Apia port?

Not enough	2	Acceptable	Well enough
1	3	4	5
Your Rate: _____			

A2. Are the entrance marker buoys (green and red) sufficient enough for the safety navigations when enter to/leave from the port?

Not enough	2	Acceptable	Well enough
1	3	4	5
Your Rate: _____			

A3. Are the other marker buoys and beacons in the Apia port area sufficient enough for the safety navigations when enter to/leave from the port?

Not enough	2	Acceptable	Well enough
1	3	4	5
Your Rate: _____			

A4. If you have any comments on the navigation aids, please give us your comments.

Your Comments:

B: Tug Boats

B1. Are tug boats attends sufficient enough including push and pull powers of the tug boats for the safety when your ship enter to/leave from the port?

Not enough	2	Acceptable	Well enough
1	3	4	5
Your Rate: _____			

B2. Do you think your ship can enter to and/or leave from the port safely with present tug boats attends?

Un Safe	2	Acceptable	Safe
1	3	4	5
Your Rate: _____			

B3. If you have any comments on the tug boats, please give us your comments.

Your Comments:

C: Turning Basin / Port Basin

C1. When you enter to or leave from the port, where is your ship turning?

1. Inner Turning Basin (near breakwater)

2. Outer Turning Basin (outside of entrance marker buoy)

3. Others _____

Your Answer: _____

If your answer is 3, please specify the location: _____

C2. Is width of the turning basin enough for the safety operations?

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

C3. Is water depth of port basin (in front of wharves) enough for berthing and mooring operations?

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

C4. If you have any comments on the turning and/or port basin, please give us your comments.

Your Comments:

D: Berthing and mooring facilities

D1. Is wharf length enough for safety berthing and safety mooring of your ships?

a. New wharf (breakwater side)

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

b. Old wharf (marina side)

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

D2. Is fender system is enough for safety berthing of your ship?

c. New wharf (breakwater side)

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

d. Old wharf (marina side)

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

D3. Are mooring bits/bollard sufficient enough for safety mooring of your ship?

e. New wharf (breakwater side)

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

f. Old wharf (marina side)

Not enough	2	Acceptable	4	Well enough
1	_____	3	_____	5
Your Rate: _____				

D4. If you have any comments on the wharves, please give us your comments.

Your Comments:

D5. If you have any comments on the fenders on the wharves, please give us your comments.

Your Comments:

D6. If you have any comments on the mooring facilities (bitts and bollards), please give us your comments.

Your Comments:

E: Cargo handling / Passenger flows

Please give us your opinion about the cargo handling operations in the port.

E1. Are the cargo loading/unloading operations in the port smooth and fluent enough?

Not enough	2	3	4	5	Well enough
1					

Your Rate: _____

E2. Do you think cargo handling operations in the port are conducted in safe conditions?

Danger	2	3	4	5	Safe
1					

Your Rate: _____

E3. Do you think your cargo is handed carefully and safely in the port terminal?

Bad	2	3	4	5	Good
1					

Your Rate: _____

E4. If you have any comments on the cargo handling/passenger flows, please give us your comments.

Your Comments:

If you do not mind, please give us your contact address.

Your Name: _____

e-mail address: _____

Company Name: _____

Phone No.: _____

e-mail: address: _____

If you have any comments, please give us your comments.

Your Comments:

That's all. Thank you very much for your Cooperation.

We assure that the information is used only for the project evaluation purpose
for the Project for the Enhancement of Safety in Apia Port in the Independent State of Samoa



QUESTIONNAIRE ON PORT USERS SATISFACTION ON SAFETY MEASURES OF APIA PORT, SAMOA

We, Oriental Consultants, Co., Ltd., a Japanese Engineering Consulting firm, are currently conducting a Preparatory Survey for the Enhancement of Safety in Apia Port in the Independent State of Samoa, under the contract with Japan International Cooperation Agency (JICA). The Project is planned to include the components such as wharf extension, fender rehabilitation, rehabilitation and upgrading of navigation aids, life-prolonging treatment of tug boats and others it may contribute to the safety enhancement of Apia port.

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Masahiko Koshimizu
Project Manager,
Port & Harbor Dept.
Global Consulting H.Q.
Oriental Consultants Co., Ltd..

I. Please give us information on your firm.

(* Please describe the item number on the line.)

1. Your Business Category

- a. Shipping Firm
- b. Forwarder (including Post and Courier)
- c. Terminal Operator
- d. Shipping Agent
- e. Others

Your Answer: _____

If your answer is 4, please specify your position: _____

2. What do your firm transport?

- a. Cargo (Containers)
- b. Post/Mail
- c. Courier
- d. Passengers
- e. Others

Your Answer: _____

If your answer is e, please specify the ship: _____

II. Please give us your opinion about the following facility conditions at APIA Port on the "Safety" point of view.
 (*Please write down your rating 1 to 5 on the line.)

A: Container Yard Conditions

Please give us your opinion about the container yard conditions at present in the port.

A1. Are the pavement conditions in the container yard are good enough for safety cargo handling operations ?

1	2	3	4	5
Not enough		Acceptable		Well enough

Your Rate: _____

A2. Is the container yard space sufficiently wide for safety container handling operations?

1	2	3	4	5
Not enough		Acceptable		Well enough

Your Rate: _____

A3. If you have any comments on the container yard conditions, please give us your comments.

Your Comments:

B: Wharf

B1. Is the wharf area is sufficiently wide for container/cargo loading/unloading operations?

a. New wharf (breakwater side)

1	2	3	4	5
Not enough		Acceptable		Well enough

Your Rate: _____

b. Old wharf (marina side)

1	2	3	4	5
Not enough		Acceptable		Well enough

Your Rate: _____

B2. Is wharf length enough for safety loading and unloading operations?

c. New wharf (breakwater side)

1	2	3	4	5
Not enough		Acceptable		Well enough

Your Rate: _____

d. Old wharf (marina side)

1	2	3	4	5
Not enough		Acceptable		Well enough

Your Rate: _____

B3. If you have any comments on the wharf, please give us your comments.

Your Comments:



C: Cargo handling operations and Cruiser Ship Passengers

Please give us your opinion cargo and passenger flows from the safety point of view when the cruiser ship entering to the port.

C1. Do you think that the cruiser ship passengers are able to disembark and embark to the ship safely in the port area?

Danger	Average	Safe
1	2 3 4 5	5
		Your Rate:

C2. Do you think that the cargo handling equipment and cruiser passengers flows are well separated safely on the wharf, trestle and other port area?

Not separated	Fairly separated	Separated
1	2 3 4 5	5
		Your Rate:

C3. If you have any comments on passenger flows in the port area, please give us your comments.

Your Comments:

If you do not mind, please give us your contact address.

Firm (Company) Name: _____

Your position in the firm: _____

Your Name: _____

e-mail address: _____

Phone No.: _____

If you have any comments, please give us your comments.

Your Comments:

That's all. Thank you very much for your Cooperation.

We assure that the information is used only for the project evaluation purpose for the Project for the Enhancement of Safety in Apia Port in the Independent State of Samoa

List of Interviewed Ships and Agent by the Consultants

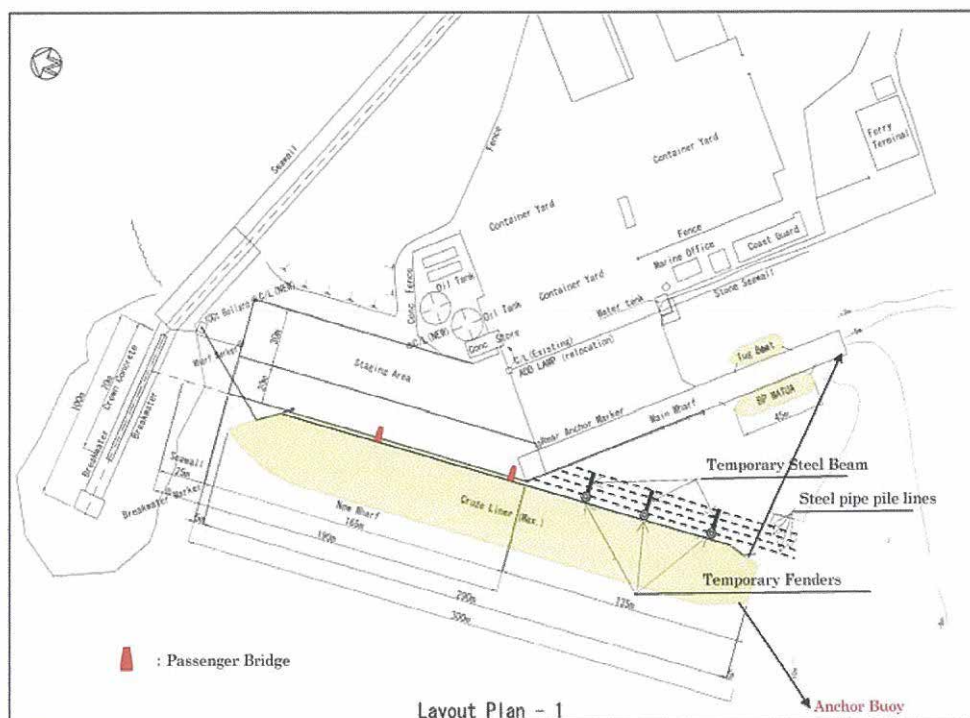
1. Ships

No.	Name of Ship	Respondent	Survey Date	Remarks
1	MV. Southern Lily	Captain.	July 17, 2014	
2	PD Matua	Captain	July 23, 2014	No tug attends since LOA is 44m.
3	MV. Captain Tasman	Captain	July 24, 2014	
4	MV Olomana	Captain	July 28, 2014	
5	Telapa 18	Captain	July 29, 2014	Fishing vessel, LOA 53.5
6	Yu Hssiang Maru	Captain	July 30, 2014	Fish carrier, answer is not effective.
7	Papuan Chief	Captain	August 1, 2014	
8	Coral Islander II	Captain	August 2, 2014	
9	Capt. Tapaga	Chief Officer	August 2, 2014	Answer was not available.

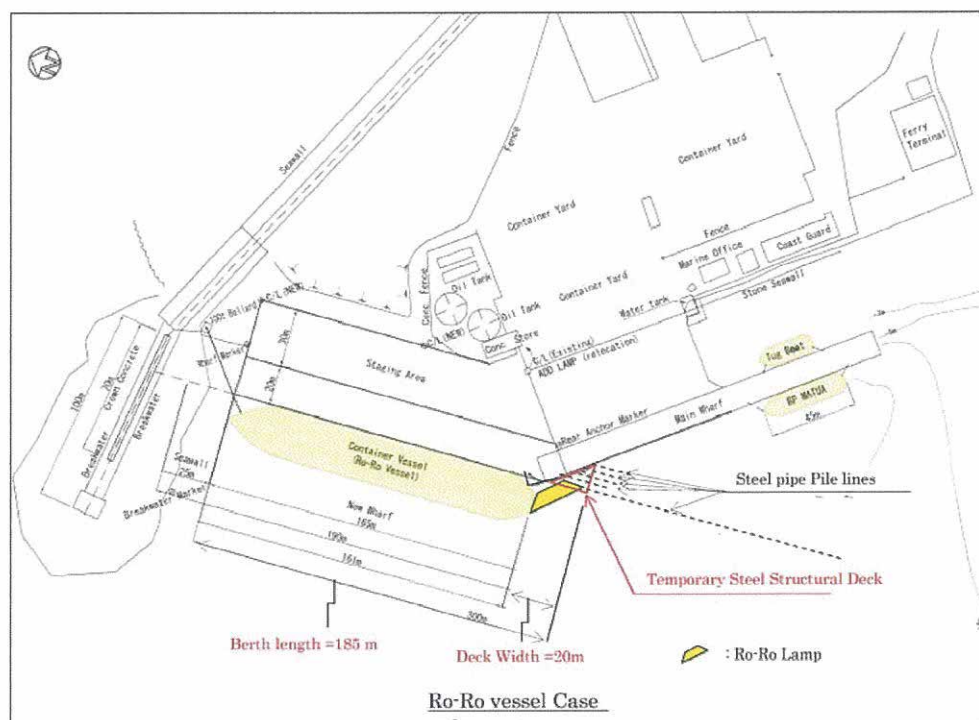
2. Shipping Agents / Port User

No.	Name of Shipping Agents / Port User	Respondent	Survey Date	Remarks
1	Betham Brothers Enterprise LTD.	Shipping Manager	July 21, 2014	
2	Polynesia Shipping Service LTD	General Manager	July 21, 2014	
3	AMA Samoa LTD	Trade Manager	July 22, 2014	
4	Government of Tokelau	Director of Transport & Support Services	July 22, 2014	
5	Pacific Forum Line Samoa	Operation Manager	July 23, 2014	
6	Transam Samoa Ltd.	Assistant Manager	July 24, 2014	

Concept for Ship Berthing Operations during Implementation



Cruiser Ship



Ro-Ro Ship (Not Applied)

SPA will request to shipping line for loading/unloading operation by using ship gears not by ro-ro ramp during implementations.