

TECHNICAL ASSISTANCE TO THE
PUBLIC WORKS DEPARTMENT
EDF PROJECT # 9.ACP.VA.02 – PWD MAINTENANCE TRAINING PROJECT

Site visit report to Tanna

30/11 – 2/12 December 2006

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1 Site visit to Tanna.

Dates : from 30/11/2006 to 2/12/2006.

Visitors : Kensity Yosef, chief of the PWD operation section, deputy project manager, with Luc Grandjean, technical adviser

Purpose: TA first visit to Tanna works division, presentation to staff and site visits of the island network.

Agenda :

Day 1 : arrival at Tanna, short visit of the new office, discussion with Secretary General, visit of the north network : sections B, H, G, F, A.

Day 2 : site visit to the south ring : section E, D, C, B and road to Lounikarieng Tafea College from section A

Day 3 : readings, reporting, back to Efate.

Persons met :

PW Division

- Fred : Division manager
- Andrew : Housing and water officer
- Disline Ioupum : PW finance officer
- Dickson Narui : Plumber
- Teriki Saloke : mason
- Jimmy Napuat : truck operator

Province :

- Tom Peter : Secretary General
- Sylvain Tagabo : planner
- Remko Schotsman : REDI facilitator

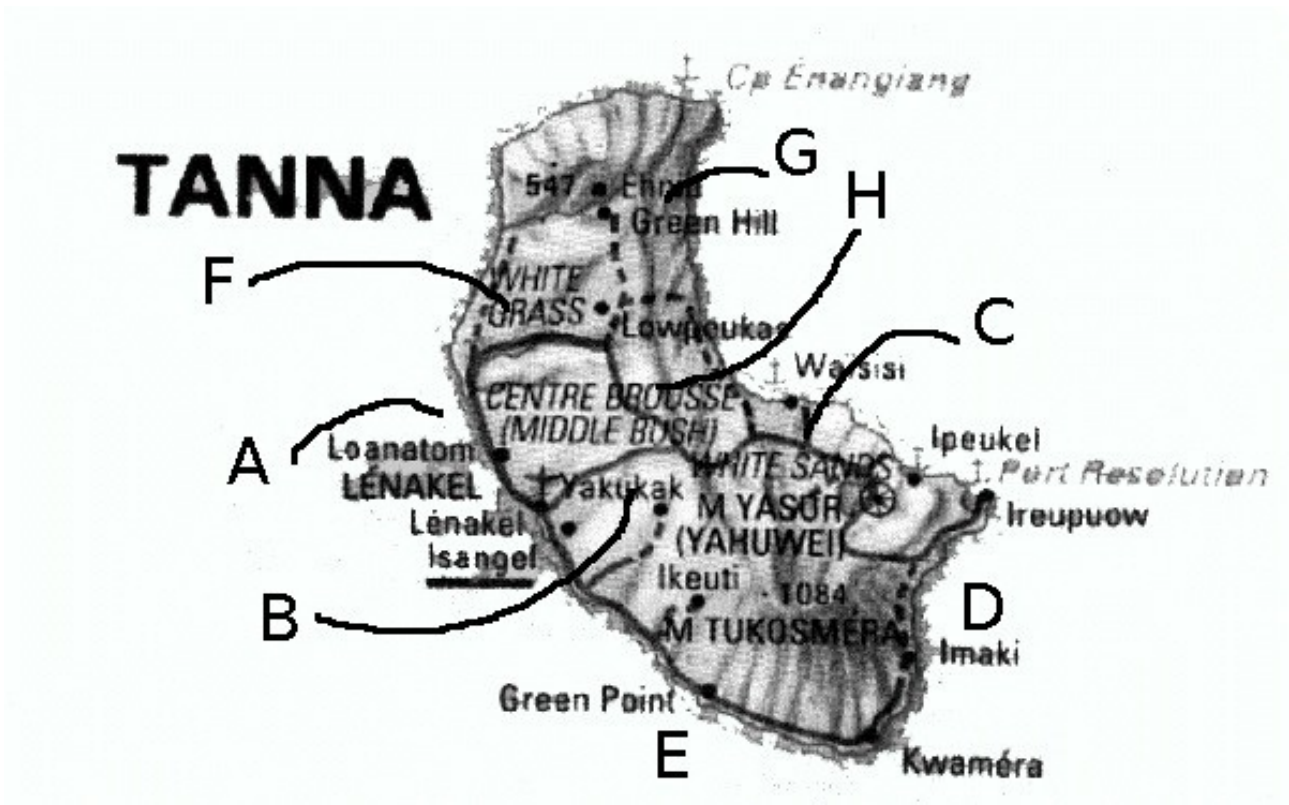
2 Roads conditions

Except sections E and D, in the south Roads are not in too bad condition, cruising speed being in the range 35 - 40 km/h in a double cab car.

Section B : from Lenakel going up to Nose Blong Pig is improved by coral stones, section C & H are built on black volcanic soil (section C is built on loose volcanic fine soil), section G is on red volcanic soil, with mountainous landscape. Section E & D are built on brown clay with very steep slopes, and are following the coast, with means that there are many rivers with large catchment areas.

Except on the South and East coast where there are plenty of rounded boulders, there are quite no stones on the island.

Apart from the "classified" 146 km network, there is a wide feeder roads network belonging to the province. PWD network has been surveyed by GPS.



3 Traffic and traffic counts

There more or less 600 vehides on Tanna island, the trends being of a continuous increase of the vehicle number, each cargo coming to Tanna bringing 1 or 2 vehicles.

Tourism related traffic is from Lenakel region (where most of the bungalows are) to the volcano trough section B and C, tourists leaving in the mid afternoon and coming back in the evening, to attend night eruptions. Ordinary traffic is on sections A B F G H mainly. The D section being quite impracticable, people willing to go to the East coast are taking the long way through section B and C, paying as much as 7000 VT one way to go to Imaka and Kwamera.

4 Equipment

Quite all the equipments have been moved to Aniwa island, to work on the airport strip.

Tafea's PW division has been granted on new (very big) D8 like bulldozer and a Dynapac roller.

Type	Comments
Bulldzer 180D New Holland	new
JCB loader	old
back hoe loader	very old
Grader Mitsubishi	old
roller Dynapack	new
3 trucks Toyota	very old

Type	Comments
Water bouwser	very old
2 utility trucks	good – double cab 4x4
2 service trucks	old – single cab 4x4

Nominal fuel consumption is 19 - 20 drums by months. Division has a fuel tank to store 45 drums.

5 Activities

Works division is in charge of road maintenance and water supply.

2006 :

- ongoing improvements on Green Hills site, on G section : building of a river crossing, ditches and road clearing by community works.

2007 :

- Demonstration works are planned on Greenhills section G : lay down of a concrete track on steep slope
- rehabilitation works on section E and D

6 Annual budget.

Division's annual budget is around VT 47 millions, out of them, VT 10 millions are allocated to the roads maintenance. Actual expenses have to be figured out, but the accounting system is not suitable to tracks unit costs by operation.

7 Maintenance requirements

- Routine maintenance: drainage network clearing and grass cutting, civil works inspection are not done according to the standard.
- Network is still in a sub-standard state on many place : river crossing missing, ditches missing

Maintenance concept has to be clarified :

- routine maintenance : once or more times each year
- periodic maintenance : once every 3 4 5 years
- rehabilitation : after cyclone or when periodic maintenance has become inefficient.

8 First findings:

- demonstration sites seem very well selected, on sections where traffic is restricted due to poor road state.
- design and implementation of works, especially gabions works has to be improved.
- routine maintenance has to be put in place, starting with site inspections, surveys, ...
- Road inventory has to be improved and refined, interventions history with technical details and costs has to be kept.

- maintenance on existing gabion structures is urging : sewing few meters of wire now could save a lot !
- equipment downsize for routine maintenance, better matched to needs would be advisable and come in support to community works : with gabions, one 2 m³ dumper, one small roller, some heavy hammers, shovels, pics, axes, wheelbarrows, ... and community workers or labourers, one could do lot of work.
- one 4 wheels excavator with rock breaking hammer would be an asset.
- sandblast equipment and adequate coating is needed for bridges structures.
- province, with community works, has developed a rather large feeder roads network without having any idea of its extension and maintenance needs, not having budget for same.
- employment and job creation will become a matter of concern of young people on Tanna. Some policy decision could take place and an action plan could be proposed.

Government of Vanuatu
 MINISTRY EXPENDITURE REPORT
 78B5 Tafea Division
 FOR TRANSACTIONS BEFORE 16/11/2006

COA	DESCRIPTION	ANNUAL BUDGET	%
	PERSONNEL EXPENSES		
8AAF	Family Allowance	936 000	2
8AAH	Housing Allowances	990 000	2,1
8AAO	Other Allowances		
8AAP	Home Island Passage Allowances	283 339	0,6
8AAS	Special Allowances		
8ASP	Provident Fund	489 293	1
8AWC	Contract Wages	2 000 000	4,2
8AWO	Overtime Wages	718 318	1,5
8AWP	Permanent Wages	10 578 000	22,3
PAYR	Personnel Budget Virements	1 591 722	3,3
	TOTAL PERSONNEL EXPENSES	17 586 672	37
	OPERATING EXPENSES		
8CAB	Subsistence Allowances	500 000	1,1
8CBL	Local Accommodation	500 000	1,1
8CFV	Vehicles Fuel	3 000 000	6,3
8CGM	Mail Carriage Freight		
8CGO	Other Charges - Freight		
8CGR	Transport - Freight	1 500 000	3,2
8CIE	Equipment Hire	1 500 000	3,2
8CJO	Office Cleaning		
8CKD	Advertising - Communications		
8CKS	Stationery - Communications		
8CKT	Telephone / Fax - Communications		
8CLL	Leases - Land		
8COI	Incidentals	400 000	0,8
8COP	Official Entertainment		
8COU	Uniforms	1 000 000	2,1
8CRB	Buildings Repairs & Maintenance	1 000 000	2,1
8CRE	Equipment Repairs & Maintenance	2 000 000	4,2
8CRH	Houses Repairs & Maintenance	2 000 000	4,2
8CRR	Roads Repairs & Maintenance	5 000 000	10,5
8CRV	Vehicles Repairs & Maintenance	1 000 000	2,1
8CTI	International Travel		
8CTL	Local Travel	700 000	1,5
8CUW	Water Utilities	13 000 000	27,4
8CZV	Value Added Tax	3 737 532	7,9
8EEA	Equipment - Additional General		
8EFH	Furniture - Housing Furniture	200 000	0,4
8EFO	Furniture - Office Furniture		
OVER	Overhead Budget Virements	-7 103 753	-14,9
	TOTAL OPERATING EXPENSES	29 933 779	63
	TOTAL EXPENDITURE	47 520 451	100