



## Samoa Water Authority

### Tsunami Report Update

To : Management of Samoa Water Authority

From : Sahara Sesega Anae – Hydraulics Engineer (Rural Operations Division)

Date : Friday 9<sup>th</sup> October 2009

**Subject : PROGRESS OF TSUNAMI REHABILITATION WORKS**

Talofa Management,

#### 1. Water Supply:

Affected Areas	Source Supply	Progress of Works	Comments
Siumu Tafitoala Mulivai	Tafitoala Intake	On	Main road and coastal mains operating. Works continuing with network and cleaning the intake.
Poutasi Satalo Sapunaoa Salani	Piu Intake	On	The most recent 6.2 earthquake caused another collapse at the cliffs of the intake. The 8" PVC transmission broke, and has now been repaired. All network operating good and intake cleaning continuing.
Vaovai	Vaovai Borehole	On	Assistance from Gary (Australian Electrician) assisted SWA Electrician with panel works. Network and pump operating good. Follow up done daily.
Saleilua Iliili	Saleilua Borehole	On	Coastal submain and main operating good.
Utulaelae Sapoe Matatufu	Matatufu Borehole	On	Network and pump and storage tank fully operating. Remedial works completed October 8 <sup>th</sup> 2009.
Lepa Saleapaga	Lepa Intake	On	Intake cleaned continuously and network operating good. Lepa intake will be stretched further south to reach additional families. Help from NZ in collaboration with Pacific Water Corporation (PWC).
Lalomanu Vailoa	Lalomanu Borehole	On	Coastal main where affected by tsunami has been cut short. Northern side has been stretched to the main road of Lotopue.
Satittoa Vailoa Ulutogia Mutiatele Malaela Saleaumua	Satittoa Borehole	On	Network and pump operating, A few problems encountered with water losses at unidentified areas when utilizing Satittoa storage tank. Problem looked at for remedial as soon as possible.
Tiavea Fou Samusu Amaile	Tiavea Pump	On	Tiavea Tai was not affected by tsunami, but if feeds part of the coastal Saleaumua, which was badly affected by the tsunami. Saleaumua coastal main now operating.
Manono Tai	Samatau &	On	Pressures at Apai are very low as Satui is the only

	Satui Borehole		pump operating. SWA awaiting EPC to fix one phase short before operating the Samatau pump. This should be complete today and Manono Tai to receive decent pressures.
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## 2. Water Tanks:

Tanks	Qty	Donors	Locations
3000L	10	EU	3 Saleapaga 2 Saleaumua 1 Malaela (4 arrived 8/10/09)
3000L 5000L	2 2	Bluebird Lumber (Andrew Ah Liki)	1 x 3000L Saleapaga (Others have yet to be located)
<b>Requests:</b>			
A request has been conveyed to Catherine (NZ Red Cross) for 5 x 1000L tanks to be allocated to 2-3 families living further inland from the rest of the other settlements. The availability of these tanks has yet to be confirmed from Catherine.			
<b>Current Work:</b>			
SWA & Lance Cutts of OSM are currently working on GPSing all tanks located on different sites for water truck distribution and Mapping. The GIS information will include housing and number of people it holds to quantify the consumption rate as per SWA Standard for a proper distribution programme.			
<b>Assistance:</b>			
The following water trucks have been assisting with the distribution of water via water trucks:			
<ol style="list-style-type: none"> <li>1. SWA23 - Savaii Water Truck (plus SWA54 &amp; SWA25)</li> <li>2. Red Cross - 1 x 5000L bladder (Dean &amp; Johnny) - Catherine NZ Red Cross</li> <li>3. Craig Construction - 1 x 5000L bladder</li> </ol>			
The following trucks are awaiting for assistance:			
<ol style="list-style-type: none"> <li>1. 2 water trucks from Oxfam (Dave Neru) to arrive 9/10/09 and utilised as soon as possible (14 days hire)</li> </ol>			
Construction of Tank Shelters are currently been done by the NZ Army lead by Dean and Major Hayward. The materials required for the works are supplied by SWA while the labour and tools are provided by the NZ Army. NZ Army have 2 days remaining to assist SWA with the construction works.			
<b>Water Delivery Forecast:</b>			
Assistance of any sort is needed and appreciated, as this water delivery services via our water trucks will be happening for the next 6 months or more.			

### 3. Pipes Supplies:

Donors	Pipe Types	Confirmation	Arrival Date
Marley NZ	15mm and 20mm (household connections)	Yes	Yet to be shipped from NZ
Oxfam NZ	Fittings for household connections and DN100 & DN150	Yes (spoken with Dean Neru, NZ Water Exective of Oxfam)	Yet to be shipped from NZ (due to arrive next week Tuesday or Friday)
EU Farmex	90mm lengths	Yes	On Site (Lalomanu)

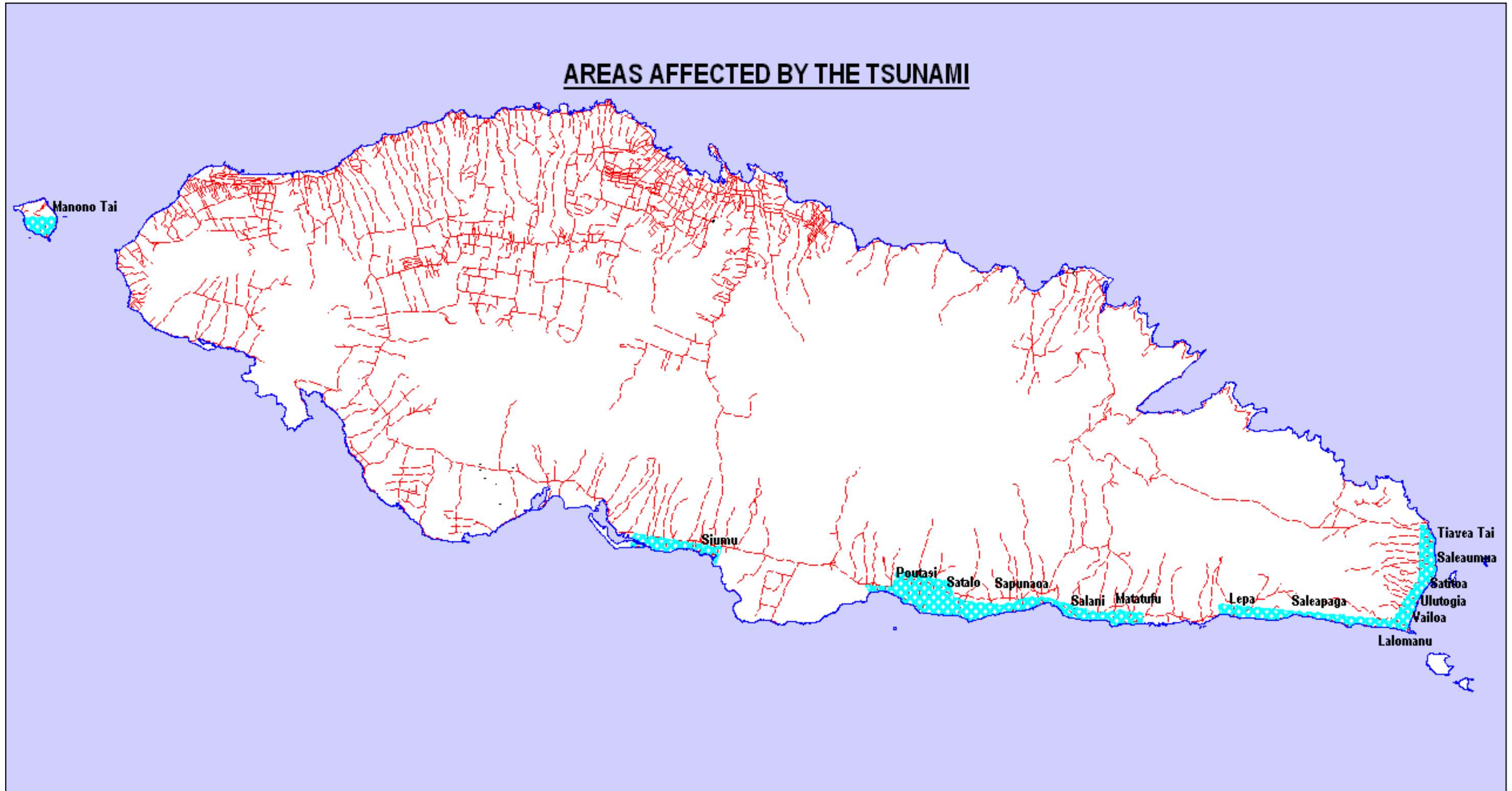
### 4. Sanitation Facilities:

These have been funded by SWA and toilet seatings constructed also by SWA with the assistance of OSM. Shelters for the pit latrines are constructed by the NZ Army using their labour and tools, while SWA supplies all materials required for the construction.

Locations	Assistance	Pit Latrines Qty	Progress
Saleapaga	NZ Army	4	Complete
Saleaumua	NZ Army	4	Complete
Maleala	NZ Army	2	Progressing
Satitoo	NZ Army	2	Progressing

Note:  
We have been told that the NZ Army will have 2 more days with us to assist with the works. The construction of the tank shelters and pit latrine shelters is programmed for completion within the 2 days given by the NZ Army.

1. Map of the Affected Areas:



With thanks,

Respectfully,

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Sahara Sesega Ahae  
Hydraulic Engineer  
Rural Operations Division