

DISASTER AID INTERNATIONAL
PALU, INDONESIA REPORT

DECEMBER 1, 2018

Met with BNPB and Palu Public Water Board. They put forward a strategy to install the SkyHydrants in eight locations around Palu to serve people not living in camps. We have agreed that DAI will supply the water filters and Palu Public Water Board will provide a plumber and technicians to train for installation and maintenance of SkyHydrants.

Two locations are already identified; Kawatuna and Fatutela. Testing has been completed and we have been advised that no saline, metals or chemicals have been detected. Some associated plant, such as tanks may be supplied by Palu Public Water Board.

A list of the remaining six locations to receive water filters will be forwarded this week to DAI. If required, a Memorandum of Understanding can be arranged, however we are still operating in Palu under the direction and with the assistance of the Palu PMI.

We travelled with Palu Public Water Board to assess the sites at Kawatuna and Fatutela. They will be straightforward installations with both being located at water pumping stations. This gives a secure source of water and both have a ½" diameter live pipe to use for supply. The pressure is low enough to not be a hazard to long term filter operation and this means a header tank is not required at either. An office is located at both sites to allow the filters to be kept securely indoors. Palu Public Water Board is to supply two x 2,200 litre tanks. We propose that work will start on Monday.

We attended several plumbing supply stores and purchased hose, fittings etc for the installations.

At the orphanage we are assisting the plumber had not arrived to sink a new well as previously arranged, but we're advised tomorrow work will commence.

DECEMBER 2, 2018

Prepared installation fit out plans for the water filters to be located at Kawatuna and Fatutela on the outskirts of Palu. These have been approved by DAI Ops and work is planned to commence tomorrow.

Investigated the location of 20 Family Survival Kits, 7 tents and a SkyHydrant Max which have been in storage since last month. They were spread across two separate locations but are safely stored ready for use. We have collected a tent for training purposes.

Visited the Palu Orphanage and the well has been finished, the kids have water again. Mission accomplished.

We have arranged for two water storage tanks to go on site and will revisit the orphanage tomorrow. Our next challenge is to get them on a list for some reconstruction works as the

buildings are in bad shape following the earthquake. We continue to ask around about helping the orphanage. Approaches have included the head of Red Cross team here in Palu.

DECEMBER 3, 2018

We drove to Fatutela on the outskirts of Palu to install the first SkyHydrant for this deployment. The site had been assessed earlier and the installation was straight forward with no header tank required as a nearby live ¾" pipe was available. The flow pressure was quite low making it ideal for a filter, as low pressure will not cause the damage associated with high water supply pressures.

The Palu Public Water Board manages the property where the filter is located - an operational water pumping station. There are two families living on site 24/7 which provides adequate security for the SkyHydrant. Palu Public Water Board has advised testing has been completed and no chemicals or salinity are present, we have requested relevant documentation. Palu Public Water Board has nominated 5 plumbers to assist with the installation and they will continue to be involved with the remaining seven filters.

The Palu Public Water Board team performed well and have quickly developed a good understanding of installation. We will continue training during tomorrow's fit out at Kawatuna. Hard PVC pipes are being used where possible for this unit. The filter was operational after a couple of hours and it is performing well. We are advised many people from the surrounding community will benefit.

DECEMBER 4, 2018

We met with Palu PMI to finalise payment of the new water well at the Palu Orphanage. This was joint project between DAI and PMI.

At PMI Camp Garuda we met with USA Red Cross. They have agreed to assess the Palu orphanage with a view to providing some assistance in the form of shelter, following the earthquake damaging their buildings. Water supply has been restored and shelter has been addressed for the 60 kids at the Palu orphanage.

Meeting three for today was with the Secretary to the Governor of Central Sulawesi. We were requested to meet him to continue links previously established.

At Kawatuna we commenced filter installation with the assistance of the Palu Public Water Board. We had the Palu Public Water Board team do installation from the start. We have found competency-based training is the most effective way, especially when English is not the first language. The fit out went well with hard PVC pipe used throughout. No header tank was required as a nearby low pressure - ½" live pipe to supply the SkyHydrant was accessed. The filtrate tank was 2,200 litres, the same as installed at Fatutela, and again we are advised no adverse chemicals were identified in water testing for this site. The location is another water pumping station with 24/7 security. A second session on daily filter maintenance was conducted and chlorine was procured to demonstrate the weekly clean. Header tank, inlet pressure, water quality along with maintenance have been emphasised over the past two days.

The Palu Public Water Board Team have reached competency in all aspects covered and we believe effective installations of the remaining SkyHydrants will be achieved.

Today we also spoke with Palu PMI and continue to make daily requests for a list of locations for the tents and a team to train in installing them. These requests have not been actioned. We have also continually contacted Palu Public Water Board about locations for the remaining six filters. A list has not been provided. Arrangements have been made for the maintenance sections of the SkyHydrant manual to be translated into Bahasa.

DECEMBER 5, 2018

This morning the SkyHydrant manuals transited into Bahasa arrived, they will be laminated and distributed to all SkyHydrant locations. As an interim measure, we have placed the Bahasa instructions on an electronic file which has been distributed by email to the places that have received a SkyHydrant.

The team revisited the Fatutela SkyHydrant to perform sponsor decal and photo duties. We also changed the water inlet pipe to PVC. While on site, we reviewed the SkyHydrant technical specs with some of the Palu Public Water Board installation team plumbers. We were impressed that they had retained the key points of information used for filter installations. Tomorrow the team has been invited to a meeting at Palu PMI head office to present to officials from the Australian Consulate.

December 6, 2018

We travelled to PMI Sigi camp and met with a representative from the Australian Embassy in Jakarta. He manages disaster responses in Indonesia DFAT and was briefed about the DAI project, our work in Palu and other locations across the world. The possibility of DAI being engaged in conjunction with DFAT in future responses was discussed. The team went to PMI Wash camp to review their facilities. Wash camp has over 250 Squirt filters to be distributed next week. We advised that our colleagues coming from the UK will have Sawyer filters with them. PMI Wash camp staff have advised they can assist with distributing the Sawyer filters if required. They can also supply chlorine to the recipients of our SkyHydrants.

We visited the Palu orphanage, the woman in charge was pleased that Red Cross had conducted an assessment yesterday. We hope assistance will be provided after their buildings were damaged in the earthquake. The new well continues to deliver water and a storage tank arrives soon.

The relief team from the UK arrived today and we started the handover and orientation process as they will take over management of this operation soon. The news came through last night that a third filter location has been identified and we look forward to working together on this installation.

DECEMBER 7, 2018

Met up with our translator and our driver and went to the Telecom Camp, Thamrin Street, Palu where 300 people comprising 87 families are living in tents. Water was being piped in to a tank and other outlets but people still reporting stomach issues.

With the help of residents and local plumbers we installed a SkyHydrant GEM using the old water tank as the untreated tank and a new tank to store treated water. We utilised an unused tank support we found on site. Given how dirty the old tank was, it is little wonder that illness was prevalent.

Residents are delighted with our assistance and were trained how to maintain the equipment. Also met with a senior administrator from Palu PMI who had attended the camp as a senior administrator she is an important person to liaise with. We attended a local builder's merchants and picked up more plumbing supplies.

A final briefing meeting is arranged with Australian DART Volunteers before they fly home tomorrow afternoon. Together we will all look at a possible SkyHydrant installation site before departure. Later intend visiting the camp that the WASH Cluster operates from.