

CMAT Haiti 2016 Hurricane Matthew Deployment Summary

by Martin Metz

A three member team from CMAT installed a NOMAD water filter, delivered medications and other aid supplies to the City of Les Irois in the Grand Anse region of Haiti. They deployed from November 2nd until November 16th, 2016. The team was comprised of Martin Metz (Paramedic - Team Lead), Kate Auger (Nurse Practitioner), Marc Dupuis (Firefighter).

In collaboration with the UN/UNICEF WASH cluster, the CMAT team assessed Les Irois as the area which would benefit the most from the deployment of the NOMAD water filter.

Les Irois was one of the first hit areas by hurricane Matthew on October 4th 2016. It has about 20000 residents and a large part of the town was flooded by waves as it is sea side. 90% of homes were destroyed or damaged. 40 people died during the storm. 28 cases of cholera were reported after the storm by the time CMAT team arrived one month later. No other aid organization had a base in Les Irois and no aid arrived there during CMAT's one week stay. Since the storm, residents had been walking 1.5 kilometers to get untreated water from a mountain stream daily.



Mission Accomplishments

The CMAT team found placement and set up the NOMAD disaster water filtration system. MSF collaborated with CMAT by supplying us with one of their water bladders and distribution manifold. The CMAT team set up a complete system that would secure continued operation of drinking water distribution from a large local well near the market, until the city's original water supply is repaired.



The team also assessed and measured what was required to repair of the city's existing broken 4" gravity water system and communicated the exact needs to the other organizations. CMAT found a partner, the Irish aid organization Haven, to buy and deliver PVC pipe for a complete repair of the city's water system. The pipe has been delivered and the water system is currently in the process of being repaired.

CMAT taught the local water technicians how to run and maintain the NOMAD water filter and distribution system. In addition, we instructed how to attach the NOMAD to the gravity feed, once repaired, for a long term purification solution of the water supply in Les Irois.



Furthermore CMAT delivered an HPIC medications primary pack to the hospital in Les Irois. The contents of the humanitarian medical kits are donated by Canada's healthcare industry and include: Analgesics; Antibiotics; Antiemetics; Antifungal; Antihistamines; Antihypertensive; Antimalarials; Antiparasitics: Anti-ulcer medication; Eye/ear drops; Medical supplies; Ointments; Oral rehydration; Topical creams.

The medications are now being distributed the patients free of charge by the local physician.

Value of the relief supplies by CMAT delivered directly to the people of Haiti affected by the Hurricane:

Nomad water filter (previously deployed in Japan 2011)	\$24 000
5000 liter Onion Water tank (Donated by Yurtz By Design, BC)	\$1 500
HPIC medications primary pack (COST OF \$575 rest donated by HPIC) Value	\$5 000
7 gallon bleach (Enough to safely store of 700 metric tons of drinking water)	\$70
Stihl chainsaw (used by team to clear trees)	
and then donated to local Haitian fire department)	\$360
Fuel donation (to ensure uninterrupted running of the NOMAD water pump until the waterline into Les Irois is repaired)	\$385
Misc donations of supplies including team tents left over MRE's and food supplies.	<u>\$300</u>
Total monetary value of donations	\$31 615

Cost of mission

Flight and Cargo expenses	\$4 586
HPIC medication pack	\$575
Chainsaw	\$360
Visas and customs	\$524
Transportation within Haiti	\$2835
Accommodations and food in Haiti for 3X14 days	\$2270
Phone and misc. expenses	<u>\$1188</u>
<u>Total cost of mission to CMAT</u>	<u>\$12 388</u>



Last Update and progress report from December 24th 2016.

The Nomad is running well and has been continuously supplying drinking water out of a well to the people of Les Irois. There is about 3 weeks of fuel left for its continued operation. This has been confirmed by people from 2 different organizations.

After several delays including: student road blocks during the election; a mayor road wash out; and a broken down truck blocking the only road. the 4 inch PVC pipe donated by the Irish NGO Haven to repair the water supply from the mountains into the City had finally arrived in Les Irois and the repair work had begun. When this water system is flowing again, the Nomad is destined to be hooked up it and suppose to continues to filter water for this City. This will eliminate the need for the gas powered water pump.



Thanks you to everyone who helped make this mission possible!