



New Forests Project

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Clean Water Initiative Update September 2008

Chlorine Bank: Eliminating Water Borne Illness and Creating Economic Opportunity in Rural Central America

The New Forests Project (NFP) is pleased to present the Chlorine Bank Report in Central America. Thanks to the support of our loyal supporters, the Chlorine Bank Program has greatly expanded the distribution of water and sanitation services and products, which also resulted in creating and expanding economic opportunities in rural communities in Honduras and El Salvador.

Expanding Services in Central America

In 2007 and 2008 the Chlorine Bank expanded its services to more than 200 communities. In 2007, a total of 28 NORWECO (series 2000 and 500) chlorinators were installed in various communities, benefiting more than 20,500 rural residents in Honduras (see attached list). So far in 2008, fifteen communities have had water devices installed, benefiting close to 6,745 people. Information on installations and number of beneficiaries for

El Salvador is still coming in for both 2007 and 2008.



El Paraiso, Honduras: beneficiaries of the Chlorine Bank Program are now receiving clean reliable water at their homes.

Providing Needed Inputs for Water Systems

Early in 2007, the New Forests Project also invested US\$2,500 for the purchase and delivery of new NORWECO chlorinators to Honduras. In addition to this, several hundred packages of chlorine reactors were delivered to Honduras and El Salvador this year. These packages are used by local operators to regulate the concentration levels of chlorine in the water, ensuring that it is free of bacteria.



Nora Hernández, Coordinator of the Chlorine Bank in Honduras providing training in the community of Guinope in the departamento of El Paraíso.

NFP was also instrumental in the acquisition of 25,600Lbs of chlorine tablets with a market value of US\$30,000. This generous donation from PPG is roughly equivalent to two years worth of supply for all of the chlorine banks in Honduras. The US \$5,300 delivery costs in refrigerated containers was entirely funded by the New Forests Project. The tablets arrived in Honduras in February 2008.

Strengthening Local Partners and Encouraging Long-term Sustainability

As part of strengthening the Chlorine Bank Program in Honduras and El Salvador, the New Forests Project invested \$4,000 worth of computer equipment and a delivery truck for the delivery of the water devices and chlorine products to participating communities. The NFP investment was matched by our Central American partners AHJASA and ASSA. To guarantee the financial sustainability of the program in the future, the New Forests Project is also working on developing a Chlorine Bank Business Plan for the next five years and will be providing training for staff. Training of the Chlorine Bank staff will be provided in November 2008 in coordination with the

Anthony Water and Sanitation District of New Mexico. Training will be provided both in the USA and in Honduras.

Supporting Partnerships Nationally and Internationally

In 2007, the New Forests Project was able to participate in and support the National Assembly for the Honduran Association of Water Boards. At this assembly, more than three hundred participants from Central America and the Caribbean were present to discuss the success and failures of their local Chlorine Bank and Circuit Rider programs.

The assembly was a great success, helping to raise AHJASA's (Honduras) and ASSA's (El Salvador) national and international profiles.

Name: José (plumber)
Community: Chusmuy

"I'm happy about the effectiveness of the chlorine. For me it is the best technology that the community could have chosen because with this equipment I don't have to monitor it as much and I like that because that way I have more time".

This year, the National Assembly was endorsed by the mayor of the town of Siguatepeque where the event took place. The participation of the New Forest Project was vital; not only did it support the huge organizational effort needed, it also created an opportunity for the NFP to collaborate with AHJASA staff members on a number of different issues. For example, in-depth meetings between the new CWI coordinator and AHJASA staff resulted in an increased understanding of the necessary components and improvements the Chlorine Bank Program needs to implement. The meetings also lead to the revival of a proposal to

integrate a watershed protection component into the already existing Chlorine Bank and Circuit Rider programs.



Coordinator of the Chlorine Bank, Nora Hernández in black, working with a water system operator in one of the 6 benefited communities of Guinope, Honduras.

Looking Forward

2007 has been a year of restructuring and refocusing for the New Forests Project and the Chlorine Bank. Thanks to the funds provided by donors like you, the New Forests Project has had the opportunity to reevaluate program activities and find new ways to strengthen existing projects and create the necessary infrastructure to support new projects.

In 2008, there was a concentrated effort to organize the information of one of the two Chlorine Bank programs. We created a database with demographic and geographic data on all communities benefiting from the program. This data base is also tracking existing services such as clinics, schools or community rooms that can serve as training facilities and information resources for the local community. The results thus far have allowed the NFP to track information for monitoring and reporting purposed and

perform periodic evaluations. New Forests Project is also in the process of creating a maps and photographic archive.

The New Forest Project looks forward to increasing our reach in 2008, increasing our ability to track information in the 700 participant communities, and provide training for their local water associations.

Again, we are truly grateful for your support and look forward to collaborating together in 2009.

Name: Dany Gonzáles (Plumber)
Community: Tranquitas Florida, La Paz.

"I'm amazed at how well this (Norweco tablet feed) system works. Since we have had it, we have had no problems disinfecting our water. I would like for all of the water boards [AHJASA's] to have this system".

For More Information please contact:

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Honduras

YEAR	COMMUNITY	MUNICIPIO	DEPARTAMENTO	PEOPLE	SYSTEM DISTRIBUTION TYPE	WATER DISINFECTING TYPE
2007	Quebraditas	Santa Ana	Francisco Morazan	690	Pumping	Norweco 500
	San Jorge	Choluteca	Valle	1,560	Pumping	Norweco 2000
	Los Rincones	Choluteca	Valle	360	Pumping	Norweco 500
	Cofradia	Sabana Grande	Francisco Morazan	360	Pumping	Norweco 500
	Guaquincora	La Virtud	Lempira	102	Gravity Feed	Norweco 500
	El Rodeo	La Virtud	Lempira	72	Gravity Feed	Norweco 500
	Santa Rita	Mapulaca	Lempira	450	Gravity Feed	Norweco 500
	El Sitio	Mapulaca	Lempira	504	Gravity Feed	Norweco 500
	Yupural	Valladolid	Lempira	102	Gravity Feed	Norweco 500
	Los Patios N° 1	Valladolid	Lempira	36	Gravity Feed	Norweco 500
	Los Patios N° 2	Valladolid	Lempira	216	Gravity Feed	Norweco 500
	El Marañon	Sabana Grande	Francisco Morazan	100	Pumping	Norweco 500
	Agua Friita Careto	Nacaome	Valle	468	Pumping	Norweco 500
	El Limon	Nacaome	Valle	792	Pumping	Norweco 500
	Colonia Melgar	Marcala	La Paz	300	Gravity Feed	Norweco 500
	Puente Ciete	Nacaome	Valle	210	Pumping	Norweco 500
	San Antonio	Marcala	La Paz	35	Gravity Feed	Norweco 500
	Estancias	Santa Ana	La Paz	1,200	Gravity Feed	Norweco 500
	Marcala	Marcala	La Paz	2,300	Gravity Feed	Norweco 2000
	Barrio El Centro	Langue	Valle	2,000	Pumping	Norweco 2000
	San Esteban	Olancho	Olancho	400	Pumping	Norweco 500
	Arocha	Guinope	El Paraiso	510	Gravity Feed	Norweco 500
	Galeras	Guinope	El Paraiso	2,098	Gravity Feed	Norweco 500
	Galeras 2	Guinope	El Paraiso	2,099	Gravity Feed	Norweco 500
	Galeras 3	Guinope	El Paraiso	2,100	Gravity Feed	Norweco 500
	Silisgualagua	Guinope	El Paraiso	384	Gravity Feed	Norweco 500
	Loma Verde	Guinope	El Paraiso	132	Gravity Feed	Norweco 500
	Lavanderos	Guinope	El Paraiso	960	Gravity Feed	Norweco 500
Total in 2007				20,540		

YEAR	COMMUNITY	MUNICIPIO	DEPARTAMENTO	PEOPLE	SYSTEM DISTRIBUTION TYPE	WATER DISINFECTING TYPE
2008	Barrio El Ocotal	Guinope	El Paraiso	983	Gravity Feed	Norweco 500
	Barrio El Ocotal 2	Guinope	El Paraiso	984	Gravity Feed	Norweco 500
	Colonia Balladares	Guinope	El Paraiso	114	Gravity Feed	Norweco 500
	Diquidambas	Guinope	El Paraiso	72	Gravity Feed	Norweco 500
	Arrallanes	Guinope	El Paraiso	252	Gravity Feed	Norweco 500
	Santa Rosa	Guinope	El Paraiso	786	Gravity Feed	Norweco 2000
	Mescalito	Marcala	La Paz	588	Gravity Feed	Norweco 500
	La Montañita	Marcala	La Paz	192	Gravity Feed	Norweco 500
	Guajiquirito	Guajiquiro	La Paz	282	Gravity Feed	Norweco 500
	Sabanetas	Marcala	La Paz	772	Gravity Feed	Norweco 500
	El Piliguin	Distrito Central	Francisco Morazan	390	Gravity Feed	Norweco 500
	Corsil	Siguetepeque	Siguetepeque	300	Gravity Feed	Norweco 500
	Sparma	Sonaguera	Colon	400	Gravity Feed	Norweco 500
	Chorusquere	Sonaguera	Colon	270	Gravity Feed	Norweco 500
	Lorelay	Sonaguera	Colon	360	Gravity Feed	Norweco 500
Total in 2008				6,745		
Total 2007 & 2008				27,285		

El Salvador

YEAR	COMMUNITY	PEOPLE	SYSTEM DISTRIBUTION TYPE	WATER DISINFECTING TYPE
2007	Santa Teresa	1,080	Gravity Feed	Table Feeder T
	Vista Hermosa	1,872	Gravity Feed	Norweco 2000
	El Paraiso	1,500	Gravity Feed	Norweco 500
	Los Rodriguez	810	Gravity Feed	Norweco 500
	San Pablo Cañales	2,550	Gravity Feed	Norweco 500
	San Lorenzo	450	Gravity Feed	Norweco 500
	Cimarron	198	Gravity Feed	Injector
	Las Rosas	1,050	Gravity Feed	Norweco 500
	Rio Frio	1,110	Gravity Feed	Norweco 500
	La Laguneta	450	Gravity Feed	Norweco 500
	Canaverales	1,410	Gravity Feed	Norweco 500
	San Ildefonso	3,750	Gravity Feed	Norweco 500
	El Arco	1,170	Gravity Feed	Norweco 500
	Las Animas	1,950	Gravity Feed	Norweco 500
	Talpetate	750	Gravity Feed	Norweco 500
	La Galera	750	Gravity Feed	Norweco 500
	Calderitas	450	Gravity Feed	Norweco 500
	Valle nuevo	750	Gravity Feed	Norweco 500
	Acapume	1,290	Gravity Feed	Norweco 500
	El Chile	390	Gravity Feed	Norweco 500
	Jiboa	1,950	Gravity Feed	Norweco 500
	El Jocote	150	Gravity Feed	Norweco 500

Total in 2007 25,830

YEAR	COMMUNITY	PEOPLE	SYSTEM DISTRIBUTION TYPE	WATER DISINFECTING TYPE
2008	El Escarbadero	1,700	Gravity Feed	Norweco 500
	El Charcal	500	Gravity Feed	Norweco 500
	Manune y el Espino	125	Gravity Feed	Norweco 500
	La Quesera	345	Gravity Feed	Norweco 500

Santa Cruz El Paraiso	324	Gravity Feed	Norweco 500
San Diego	250	Gravity Feed	Norweco 500
Poza Azul	1,500	Gravity Feed	Norweco 500
Las Pampas	178	Gravity Feed	Norweco 500
Las Isletas	890	Gravity Feed	Norweco 500
San Cristobal	159	Gravity Feed	Norweco 500
Santa Cruz Porrilo	223	Gravity Feed	Norweco 500
San Felipe	125	Gravity Feed	Norweco 500
Padre Ernesto Barrera	75	Gravity Feed	Norweco 500
Comunidad San Luis Aguacoyo	678	Gravity Feed	Norweco 500
Animas	2,500	Gravity Feed	Norweco 500
Comunidad El Coyolar	234	Gravity Feed	Norweco 500
Comunidad Cristo Rey	158	Gravity Feed	Norweco 500
Comunidad San Juan Llano Grande	75	Gravity Feed	Norweco 500
San Francisco Angulo	190	Gravity Feed	Norweco 500
Candelaria La Frontera	125	Gravity Feed	Norweco 500
El Limon y Espino	1,200	Gravity Feed	Norweco 500
Achichilco	175	Gravity Feed	Norweco 500
Jiboa y cañas	2,000	Gravity Feed	Norweco 500
Comunidad Candelaria Abajo	750	Gravity Feed	Norweco 500
Comunidad Calderitas	570	Gravity Feed	Norweco 500
Comunidad Ayalitas	128	Gravity Feed	Norweco 500
Primavera	700	Gravity Feed	Norweco 500
Canton Talpetate	350	Gravity Feed	Norweco 500
El Charcal	457	Gravity Feed	Norweco 500

Total in 2008 16,684

Total 2007 & 2008 42,514