

WATER FOR LIFE

SUMMER 2008 NEWS



NARUMU/ USARI SCHOOLS WATER FOR LIFE PROJECT

WWW.Catholic-Action.org

For the Lord says, "Though you will see neither wind nor rain, yet this wadi will be filled with water for you, your livestock, and your animals to drink." 2 Kings 3; 17

Ground Breaking Celebration by Narumu and Usari Villagers

Villagers from Narumu and Usari in the Diocese of Moshi, Tanzania braved the spring rains to join Sister Bernarda Moshi, her staff and students in celebrating the groundbreaking of the "Water for Life Project" by raising their hearts and spirits to a loving God who has brought them in communion and solidarity with their brothers and sisters from the Diocese of Cleveland.

The Water for Life Project improves new life by providing a new source of safe drinking, cooking and personal hygiene water to the Narumu Secondary and Usari Primary Catholic School complex. The complex includes housing for 1500-1750 students, lay staff, priests and nuns, a church and infirmary.



(Community members join Sister Bernarda Moshi in the groundbreaking celebration)



(Priests from the Diocese of Moshi preside over the groundbreaking Eucharistic Celebration)

The construction and technical aspects of the Narumu/Usari Water for Life Project include: containment of two (2) existing springs that are fed by the Kilimanjaro Mountains; developing a water distribution system; installing hydro generators and an emergency generator to supplement the electrical power necessary to process the water through a new purification system complete with a water clarification and UV disinfection system during the frequent power outages experienced in that area.

Engineering support is being donated by Cleveland-area engineers Joe Kocurkovic, Dr. Harry Hatters and Matt Kashuk.

PROJECT UPDATE:

While our fundraising efforts over the last year have been generally successful we have also experienced the emergence of unforeseen project costs. First, the need for a topographical study of the area required an additional cost in the amount of \$2,330. Additionally, the rising costs of petroleum and construction materials have greatly impacted the prices of project materials and supplies. Conservative estimates by our engineers indicate that the cost of the project has risen from \$70,000 to \$125,000. To date we have received donations and pledges in the amount of \$96,677.00 from parishes, religious communities, individuals and foundations. The \$96,677.00 represents approximately 77% of our \$125,000 estimated costs.

In February 2008 engineers from the Hai Kilimanjaro Regional Water District completed the topographical survey of the area. This survey and updated cost estimates of the project allowed us to proceed in releasing the estimated funds necessary for the first phase of the project construction. The first phase included security fencing and construction of proper containment in order to protect and exclude contamination of the two spring water sources. In late March an amount of \$24,104.08 was electronically transferred into a special project account in Moshi, Tanzania to commence the first phase of the project. Because of rainy season delays the first phase of the project will be completed by the middle of July.



(Sister Bernarda, Head Mistress of the Narumu/Usari Schools and Project Director joyfully breaks ground for the long-awaited construction)

It is estimated that the second phase of construction which will cost approximately \$58,000 will begin in late July to early August. The activities of the second phase include the construction of a 50m³ elevated concrete water tank (\$31,774) and the piping from the contained springs to the Narumu Schools which is about 2.1 miles (\$25,453).

The third phase of the project includes the construction of in-school distribution components and the filtration ultra violet purification equipment that is estimated at \$27,130. The fourth and final phase of the project which includes the installation of a backup electrical generator and all related engineering support is estimated at \$15,766. It is estimated that the project will be completed by the end of this year.



(Anxious Narumu High School students look over the project materials)

The current water supply to the Narumu school complex and surrounding area is highly contaminated with harmful bacteria. The incidence of student sickness is at a historical high level varying with seasonal rainfall.



(Villagers help remove debris from the existing water source dam)

PROJECT COST BREAKDOWN (USD):

Topographical Study of the Area: 2,330
Phase 1: Fencing and containment: 21,774
Phase 2: Construction of 50m³ elevated concrete water tank and piping to the schools: 58,000
Third Phase: In-school distribution Components and Ultra Violet Equipment: 27,130
Fourth Phase: Backup electrical generator, related engineering start-up, documentation and operational training: 15,766

Grand Total Project (incl. 5% Contingency): \$125,000



(Villager walks along the spring outlet protection channel)

DID YOU KNOW?

More than 1.1 billion people in developing countries do not have adequate access to safe water. Every year 1.8 million children die from causes related to unclean water and poor sanitation. This is equivalent to 4,900 deaths every day; intestinal disease is the second highest cause of death in the world for children under 5 years of age.

IMPLEMENTATION PLAN:

Assuming that the necessary funds become available, the project construction will continue and be completed between November and December 2008:

1. Conduct topographical study of the area (March 2008)
2. Contain and protect spring water sources (May – July 2008)
3. Modify and run upgraded piping from springs to villages and school boundary (July – August 2008)
4. Construct main storage tanks and install hydro turbines at the school complex (July – August 2008)
5. Install school distribution piping and secondary storage tanks (October – November 2008).
6. Complete the installation and check out of the water purification systems and generator in school complex (November 2008).



(Narumu/Usari Spring Water Source Containment Chamber)

PROJECT MONITORING AND EVALUATION:

- The Hai Water District Agency personnel will monitor spring water quality and integrity of the installation.
- School administration will test purification of village and in-school water output quality using culture-disc by on a monthly basis.
- Local testing agency will perform annual comprehensive water quality test panels.
- School administration will track student and village sickness incidence rate on an on-going basis.
- U.S. engineers will continue communication with school administration to confirm system performance, reliability, maintenance record review on a quarterly basis.
- U. S. support engineer will also provide on-going problem solving assistance as required.
- School administrations, Hai Water District Agency personnel, and DSAO will work together to provide necessary information for periodic reports.



(Fencing Along Spring Containment Area)

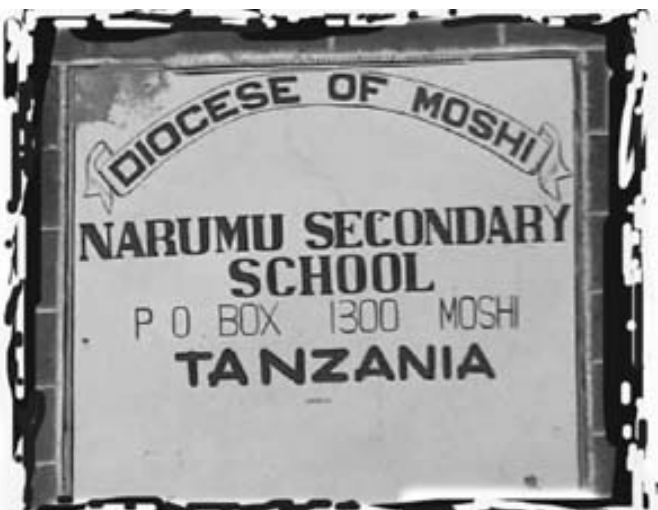
The Narumu/Usari Schools Water for Life Project is an initiative of the Cleveland Diocese Council on Global Solidarity and the Social Action Office in collaboration with St. Basil the Great, the Church of the Gesu, St. Agnes- Our Lady of Fatima, St. Cecilia, the Apostles of Jesus Missionary Order and the Tanzania Hai Kilimanjaro Water Region Office.

[Tax-deductible contributions to help defray the \\$28,300 balance of the Narumu/Usari Water for Life Project](#)

Can be mailed to:

Diocesan Catholic Relief Services Office
Trinity Center: 2500 Elyria Avenue
Lorain, Ohio 44055

Attention: Deacon Rocky Ortiz, CRS Director
jortiz@clevelandcatholiccharities.org



To view or share the color photos on this newsletter, visit the Council on Global Solidarity link in the Diocesan Social Action Website at www.catholic-action.org

Narumu/Usari Water for Life Committee

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Bernadette Hill
Robert W. Hill
John Hissong
Joe Kocurkovic
Dr. Harry Hatters
Jane Dinda
Vanessa Griffin-Campbell
Tom Allio
Deacon Rocky Ortiz

Project Donors Priming the Well



Queen of Heaven, Green – \$6,849
St. Basil the Great, Brecksville – 3,300
Gesu Church, University Hts – 9,245
Sagrada Familia, Cleveland – 865
Our Lady of Victory, Tallmadge – 1,000
Immaculate Conception, Akron – 1,964
St. Noel, Willoughby Hills – 300.00
St. John Vianney, Mentor - 500

Monastery of the Poor Clares, Cleveland - 10,000
Sisters of the Incarnate Word, Parma Heights- 450.00
Sisters of Charity of Saint Augustine, Richfield - 1,000
Discalced Carmelite Nuns, Cleveland Heights - 200
Sisters of the Holy family of Nazareth, Cleveland – 100
Brothers of Holy Cross, Gates Mills – 45
Congregation of St. Joseph, Avon – 100
Bishop A.J. Quinn – 1,100
Bishop Roger Gries - 250
Diocesan Mission Office –\$2,500
Jesuit Committee - 125
Diocesan Pastoral Ministry office - 332
St. Vincent De Paul - St. Paul's Conference/Akron – 242
St. Vincent De Paul - Lorain Council - 1,000
Notre Dame College Students - 170
The Bridge Foundation - 3,000
Raskob Foundation – 20,000
Geisse Family Foundation – \$20,000 &
Many, many other parishioners

On behalf of Bishop Richard G. Lennon, the Diocesan Council on Global Solidarity and the students and villagers from Narumu/Usari, Tanzania please accept our grateful appreciation – THANK YOU - for your generosity and spirit of solidarity.

Deacon Rocky Ortiz
Diocesan CRS Director