

## **New Program/1<sup>st</sup> Project Application Form for EWB-USA**

**EWB-USA requires a 5 year Program commitment to the communities in which our chapters work. Within each Program there may be one or more projects. This application is for new Programs and the first project within that Program only. (Chapters submitting new projects within an existing Program, please submit a 501b).**

- **If the submitter is an NGO or community (without a chapter affiliation), please complete sections A and B only.**
- **If the submitter is a chapter of EWB-USA, please complete all sections.**

***Note: EWB-USA does not provide cash donations or grants to communities.***

### **Application review process:**

- 1) Applications will be reviewed by an EWB-USA Application Review Committee (ARC). Note: The review process will take 4-8 weeks, during which time the submitter may be contacted with questions.
- 2) If this application is approved and has not been adopted by a chapter, it will be placed on the EWB-USA website for adoption. Note: The adoption process can take several months, and some projects are not adopted by chapters.
- 3) Once the program is approved and has a chapter, the chapter should contact the community or NGO and begin to plan the first assessment trip.

### **Once the application is approved and has been adopted by a chapter:**

- 1) The chapter travels to the community for an assessment trip. (Prior to travel, the pre-assessment report (#507B) must be approved by an EWB-USA Project Manager – See the EWB-USA website for submission deadlines)
- 2) Upon return, the chapter submits a post-assessment report (#507C)
- 3) The chapter designs the project, incorporating community input in the design process.
- 4) The chapter may return to the community for a second assessment trip to discuss design alternatives with the community (Prior to travel, the assessment plan (#507B) must be approved by an EWB-USA Project Manager).
- 5) The chapter travels to the community to implement the design (Prior to travel, the pre-implementation report (#507D) must be submitted. The Technical Advisory Committee (TAC) must approve the design prior to departure).
- 6) The chapter submits a 501b Continuing Program Application prior to beginning their next project within this program.

### **What we are looking for in EWB-USA programs:**

- 1) The program's mission is well defined and in-line with EWB-USA's mission.
- 2) The program and each project within the program can realistically be developed by a group of volunteers.
- 3) Each project cost is reasonable for the chapter to fundraise.
- 4) Program will benefit the entire community and will not discriminate against members of the community.
- 5) There is community involvement and participation (support with labor, materials, food, lodging, etc.).
- 6) Safety concerns:
  - a. EWB-USA will not approve projects from countries that have a state department warning and one or all of the following:
    - i. Security clearance from International SOS can not be established

- ii. US Peace Corps has pulled out of the country for safety reasons
- iii. UN Peace Keepers are in the country due to violence in the country
- b. Prohibited countries (we will **not** approve Programs in these countries): Afghanistan, Bosnia, Burundi, Burma (Myanmar), Central African Republic, Colombia, Cuba, Iraq, Iran, Ivory Coast, Israel, Gabon, Lebanon, Libya, North Korea, Pakistan, Palestine, Somalia, Syria, Uzbekistan, and any other country that fits the above safety concerns.
- c. Caution countries (we may decline Programs in these countries for safety reasons): Algeria, Columbia, Haiti, Nepal, Nigeria, Sri Lanka, Sudan, Zimbabwe

**Submission information:**

Please email this form in MS Word format (it must be less than 1MB) to: [projects@ewb-usa.org](mailto:projects@ewb-usa.org)

**SECTION A: PROGRAM**

*EWB-USA is committed to a long term relationship with communities. The purpose of Section A is to outline all of the important needs of the community so that chapters can achieve a broad understanding of the community. Within a program, there may be one or many projects.*

**A.1) Program Information**

Today's Date: August 19, 2009

1) Please check one of the following boxes:

- New Program Submitted by NGO or community (no chapter has adopted the program)  
 New Program Submitted by a chapter of EWB-USA (chapter has adopted the program)

2) Country: Argentina

3) Region/State: Rural area near town of Los Juries/ Province: Santiago del Estero

4) Location in Country (e.g. South West Kenya, 30 miles from Tanzania) North-Central, 1000 km from city of Buenos Aires

5) Community: A conglomerate of family dwellings and schools spread-out over an area of approx. 200 km<sup>2</sup>

6) Community Geographic Coordinates if known: (Note: Google Earth may be used to determine coordinates)

Latitude: 27 47 00 S (Degrees, Minutes, Seconds) Longitude: 64 15 00 W (Degrees, Minutes, Seconds)

7) Has a chapter of EWB-USA agreed to accept this program? Yes

If Yes:

Name of Chapter(s): Chesapeake Professional Partners Chapter

Contact person: Brian Houston

E-mail or Phone: bhouston@gmail.com

**\* Note: If a chapter has already agreed to accept this program, please CC the chapter's faculty advisor/president via e-mail when submitting this application.**

## A.2) Contact Information

### Requesting Organization, Contact Information & Mission

Name of Organization requesting assistance: FUNDESA

Mission of the Requesting Organization:

*To contribute to the integral human growth of individuals and under-developed communities in the province of Santiago del Estero and other regions of Argentina, supporting and deploying social projects that promote the values of fraternity, justice, and solidarity. Main objectives are:*

- *Improve living conditions through work and health initiatives*
- *Create new opportunities for education*
- *Strengthen and consolidate values that promote the environment, traditions, and family links*

Website of Organization (If applicable): [www.fundesa.org.ar](http://www.fundesa.org.ar)

Name of Individual Requesting Assistance: Guillermo Warley

Contact Email: [gmwarley@comcast.net](mailto:gmwarley@comcast.net)

Contact Phone: 301-514-5851

Contact Address: 6323 Knollwood Dr., Frederick, MD 21701

Name of EWB-USA Chapter (if applicable): Chesapeake Professional Partners Chapter

Name of on-site Primary Project Facilitator: Ricardo Carrena

Contact Email: [fundesa@fundesa.org.ar](mailto:fundesa@fundesa.org.ar)

Contact Phone: 011-54-11-4005-5533 Ext 347

Contact Address: Av del Libertador 2740, 3<sup>rd</sup> Floor, (1636) Olivos, Prov. De Buenos Aires, Arg.

## A.3) Program Description

1) Program Goals and Strategy: The program is the overall mission of your efforts in the community. There may be several projects within a single program.

- What is the mission of the program? Why is this program necessary?
- Provide background on the community and the primary needs of the community
- Provide details on how specifically the proposed program will improve these conditions

*The overall mission of the program is to improve living conditions for as many members of the community as possible. In order to achieve that mission many projects and phases will be needed over a period extending 5 to 10 years. The most critical aspect of the community's living conditions is that of access to clean, potable, and safe water. But many other issues should be addressed also, such as construction practices for simple and safe housing, sanitation improvements, efficient use of the environment, and generation of electrical power from solar and wind energy.*

*The program is necessary because the community is located in one of the poorest provinces of the country, Santiago del Estero, which in the latest national census (2001) ranked 19<sup>th</sup> out of 22 in having the "basic" needs of its population satisfied. More than 26% of the population of Santiago del Estero does NOT have*

*their basic needs satisfied, representing almost twice the average for the country (14 %). Furthermore, of those households that do not have their basic needs satisfied, 83 % do not have provision of water (that is the highest percentage in the country). Sanitation issues, electricity, lack of decent housing, etc, all compound to magnify the gravity of the problem, perpetuating a cycle of poverty and contributing to create unhealthy and deplorable living conditions. EWB-USA cannot tackle the huge task of improving living conditions for the entire province, but has rather concentrated in this community by its association with FUNDESA, an established national NGO that has been working in the community for years.*

*The community is basically made up of peasants and rural families (approximately 1,300 families, with a total of 6 to 7,000 people) that live in the departments of Ibarra and Taboada, in the center-East of the Santiago del Estero province. The population is very homogeneous, by far the majority of people were born in the area, and there are strong family and cultural links. The community has all the primary needs that are typical of rural and relatively isolated areas: sources of work, education, health, sanitation, and access to basic services such as drinking water. The population density is very low, with the dwellings spread out significantly, which has forced the locals to provide for themselves using home-made solutions to procure water that are not always safe and/or efficient. With no nearby rivers or urban infrastructure, very low annual precipitation (< 450 mm), and water tables highly contaminated with natural solutes like Arsenic, people have limited choices for water procurement, often buying it bottled from the nearest town, some 40 km away. Very few are able to afford wells that are capable of reaching uncontaminated tables. The result is a very inequitable distribution of water, which is often unsafe and contributes to the spread of disease.*

*The proposed program will specifically improve these conditions over a period of several years by addressing many of the issues mentioned above, and alleviating the situation for at least some portions of the community. The program will first tackle the water accessibility and purification, as it is deemed to be the most critical problem. Then the program will continue by providing basic education on sanitation techniques and basic instruction on sound construction practices that can be directly applied to the types of dwellings found in the community. Next the issue of electricity will be tackled, providing instruction and building small solar and wind power generation systems.*

*Despite these initial objectives, we will remain open to adapt and adjust to the circumstances we find within the community, especially after a first assessment trip is conducted. This may result in shifting priorities on projects or incorporating new projects that are deemed to be more important to further the mission of the program. Nevertheless, the overall goal of improving living conditions for the community will remain unchanged. Although our chapter does not have the resources to directly impact the entire population, we hope to educate and share basic designs that could be replicated by the community throughout the area.*

**2) Program Overview:** How will the program develop beginning with your first project? Please provide a short overview.

<b>Project Sequence</b>	<b>Title</b>	<b>Description</b>
<b>Project #1</b>	<i>Installation of water collection and storage at one or more locations</i>	<i>Determination of a preferred design approach (single dwelling, multiple dwellings, rainfall harvesting, drilling, etc.) will be followed by implementation phase.</i>
<b>Project # 2</b> <i>(If applicable)</i>	<i>Sanitation enhancement</i>	<i>Improve sanitation conditions through education and simple installations</i>
<b>Project # 3</b> <i>(If applicable)</i>	<i>Housing construction improvements</i>	<i>Educate community members on modern construction techniques for housing and possible sample implementation</i>
<b>Project #4</b> <i>(If applicable)</i>	<i>Provision of small-scale solar panels in selected areas</i>	<i>To help with projects started by graduates of the local vocational school, these panels will allow the use of hand tools and other electrical devices</i>

## A.4) Community and NGO Support and Collaboration for the Program

*EWB-USA is **not** a funding agency. EWB-USA **partners** with developing communities to improve their quality of life by providing technical assistance for the design and development of programs. We expect community contribution to EWB-USA programs, as this has been found to improve program success. Likewise, we encourage collaboration with reputable organizations both local and international.*

1) Program Collaboration: What other organizations, including governmental and non-governmental organizations (either local and/or international), will be involved with this program? In what capacity will they be involved? Will these organization(s) be providing financial support to the program?

- One paragraph: Approximately 100 words

*FUNDESA will be the primary NGO acting as a liaison between EWB-USA and the community. Its most important role will be that of facilitating the EWB-USA team's work and the access to community leaders and governmental authorities. FUNDESA's role in providing financial support for the program, if any, cannot be fully determined until an assessment trip is made and specifics about the project(s) are determined.*

*FUNDESA has also been working with an agency from the EU (European Union) to obtain a grant that is not specifically related to this program. But if this effort is successful we have been told that a portion of the grant could be used for partial funding. The nearby town of Los Juries, which has jurisdiction over the rural area under consideration, has supported and collaborated with FUNDESA on many previous and ongoing programs and is expected to do the same with this program.*

2) Presence of Other Organizations: What other organizations, including governmental and NGOs (either local and/or international), are currently working in the community? How do your projects complement/detract from each other?

- One paragraph: Approximately 100 words

*To our knowledge no other organizations, other than FUNDESA, are currently working in the community. Seven or 8 years ago the United Nations did some work in the area. FUNDESA runs several programs within the community, including education, health, cultural, and agricultural programs. Our project(s) directly complement all of those being run by FUNDESA, since water is an essential component for agriculture and has a direct impact on health. Electricity and better housing can only help advance the goals of education; and sanitation is directly related to health issues.*

3) EWB-USA Chapter Collaboration: Will other EWB-USA Chapters be involved with this program? In what capacity will they be involved?

- One paragraph: Approximately 75 words

*No other chapters will be involved*

4) Local University Collaboration: Part of EWB-USA's mission is to provide, if possible, opportunities for EWB-USA student members to interact with host-country University students. Are any local universities interested in collaborating in this project?

- One paragraph: Approximately 50 words

*The closest Engineering School would be in the bordering province of Tucuman, at least 7-8 hrs from the community. FUNDESA built a vocational school near Los Juries, and we intend to create opportunities for the students to collaborate on the program’s projects.*

**SECTION B: 1<sup>ST</sup> PROJECT OF PROGRAM**

*Please outline the first proposed project of the program in section A. Projects should be focused and well defined.*

**B.1) Project Description**

1) Project Title: *Installation of water collection and storage at one or more locations*

2) Project Summary: provide a **short** overview of the scope of work of the proposed program

- One paragraph. Approximately 75 words

*We will look at the roughly 20 “parajes” (a geographical area that includes a group of between 30 and 90 dwellings) and based on community input and an assessment trip, determine which dwellings, or subgroup of “parajes” will be the best targets for implementation of this first project. Part of the decision process will be to determine jointly with community leaders whether to:*

- a) *Design a centralized water harvesting place that can serve a group of dwellings*
- Or,
- b) *Design individual dwelling harvesting systems that can then be installed in many households*

3) Needs Addressed: Check the specific services or needs addressed by this project. Check all that apply.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Water Supply      | <input type="checkbox"/> Agriculture          |
| <input checked="" type="checkbox"/> Water Treatment   | <input type="checkbox"/> Alternative Fuels    |
| <input type="checkbox"/> Sanitation                   | <input type="checkbox"/> Information Systems  |
| <input type="checkbox"/> Energy                       | <input type="checkbox"/> Socio-Cultural       |
| <input type="checkbox"/> Construction                 | <input type="checkbox"/> Environmental        |
| <input checked="" type="checkbox"/> Micro-Enterprise  | <input type="checkbox"/> Ecosystem            |
| <input checked="" type="checkbox"/> Health and Safety | <input checked="" type="checkbox"/> Education |

Other: Describe: \_\_\_\_\_

4) Affected Population: How many people will be affected by this project in a certain geographic region (please provide an estimated NUMBER of people affected and not a description like “a lot”)

*The number of people affected directly and indirectly by this first project of the program cannot be accurately determined until we make an assessment trip and, as explained in the project summary above, decide what design approach to take and where it will be implemented. We do know that it would be impossible to affect the entire population of the community, so we tentatively, and conservatively, estimate about 5% of the dwellings will be affected directly and about an equal amount will be affected indirectly*

- a) Directly affected: 350 (about 5 % of dwellings, estimating 5 people/dwelling average)
- b) Indirectly affected: 350 (an additional 5 %)

5) Project Goals: What is the goal of the project? Why will you begin your Program with this project? Please answer the appropriate questions below ONLY if they relate to this project (One-Three paragraphs: Approximately 300 words)

- If the project involves Water Supply, please address the following questions:
  - What are the possible sources of water? (e.g. type, location, distance from community); What is the approximate elevation change between sources and POU? How clean does the water look?; Are there water rights issues that need to be considered?
- If the project involves Water Treatment, please address the following questions:
  - What are the water quality associated diseases have been found in the community? What quantitative and qualitative community health assessments have been done? Has there been any testing of the water? What were the results?
- If the project involves Energy project, please address the following questions:
  - What will the electricity power? How much power is required? What possible methods are available? (e.g. wind, solar, biomass surveys, etc.)
- If the project involves Construction, please address the following questions:
  - What materials are available locally? What are the typical local construction methods used in the area? Are there paid masons/contractors in the community who do all of the construction, or is it done by individual families? How much and how often do people typically pay for skilled labor? Are there life safety concerns with current practice (i.e. seismic events)?

*Sources of water are limited to deep water tables that are not contaminated (most are) and rainfall. There are no rivers or flowing water within reasonable distance. Water can be procured from the town of Los Jurios, 40 km away, in bottled form, or from the few members of the community who currently have a well in their lot. About 52% of the community procures water this way. Of the remaining 48%, only 9% have their own wells and the rest (39%) collect rainfall with rudimentary systems and even so only partially meet their needs. There is no substantial elevation change in the area (very flat). An independent lab assessed the water's "opacity" to be 75 (the regulated limit is  $\leq 3!$ ), the water's "true color" was measured as 13 (the regulated limit is  $\leq 10$ ). There are no water right issues; the water underground belongs to the landowner.*

*We have a copy of sample analysis conducted in 2005 by a lab in Argentina, which shows unsafe concentration of several solutes and other substances (bacteria, iron, sulfates, chlorides and others). The health clinic run by FUNDESA in the community has found that parasitic diseases, which affect 45 % of children, and hepatitis, are closely linked to the consumption of contaminated water. They have also observed dehydration levels that caused death in young children already at risk. Other health issues related to water consumption include gastrointestinal disorders, bacterial diseases, and lack of oral hygiene, which causes premature loss of teeth in more than 40 % of the children.*

6) Alternative Designs: What alternative designs or solutions have been considered? Why were they rejected? Are you willing to accept and work with alternatives to the design you have in mind?

*No alternative has been ruled out, but given the very limited availability of water sources it seems like the only choices are drilling or rainfall collection. Drilling is not guaranteed success because of the heavy natural contamination, so it would appear that the best approach is rainfall collection. A private company made a proposal to FUNDESA a few years ago and suggested selective drilling with artificial groundwater recharging through rainfall, so that maybe considered too. Several alternate water harvesting systems could be used, some that include pumping and filtering. The decision on which one to use will depend on many community considerations to be evaluated during the assessment trip, such as availability of parts, electricity, etc.*

*Yes, we are willing to work with alternatives to the design we have in mind.*

7) EWB-USA Role: Describe specifically the proposed role of the EWB-USA. Labor? Design? Construction oversight? What specific skills can EWB-USA offer that are not available locally?

- One-Two paragraphs: Approximately 100 words

*Argentina is a country somewhat different than other places where EWB-USA has carried out projects. Some areas of the country are fully developed and rival any industrialized country in technology, construction, water distribution, etc. However, being a vast country, the development has had an epicenter in the major cities/regions of the country, leaving many others behind, by comparison. Therefore, it is clear that expertise in water supply and distribution does exist in the country, and even in the province's largest towns and cities. Nevertheless, the region of interest is one of many that have been left behind for many reasons, and can benefit from the design expertise provided by EWB-USA. Construction oversight and assistance in subsequent monitoring of performance are also valuable skills to be contributed by EWB-USA. Labor will be available locally through members of the community, although EWB-USA team members are expected to work side by side with the locals.*

8) Budget: If an estimated project budget has been developed, please include the figures below (*Note: Costs may be listed in greater detail if desired*)

*Since no alternative design has been ruled in or out, no estimated project budget has been developed yet. But certain pieces and aspects of the possible designs have been approximately priced. A key issue in determining the cost of the first project is the decision to go with individual household collection/storage systems, or with a larger centrally located community collection system. A project that would address at once the needs of all 6 to 8 thousand members of the community is beyond the capabilities of EWB-USA. But even when considering a subset of the community, as we are, this issue is of crucial importance to the cost. We will not make a final determination on the approach until we have the input from the community leaders and have discussions with them during the assessment trip to understand what would work best, and most importantly, what they think would be best, from a community perspective.*

## **B.2) Project Impacts**

1) Positive Impacts: What potential positive impacts are anticipated as a consequence of this project? Will the project be accessible to people who are physically disabled? Please consider health, economic, environmental, social and cultural affects.

- One-Two paragraphs: Approximately 100 words

*There will be a positive impact in many respects. Those who were not collecting rainfall already, or that were collecting it using homemade and/or unsafe methods will see a two-fold benefit: more and safer water available, with less cost and effort. Whether the approach chosen is individual collection systems in households or a central system to serve a subset of households, this will have a positive social effect and promote collaboration and solidarity. Socially this will in turn create a sense of pride and self-sufficiency. The community as a whole will benefit by having better health in the long run and more of their basic needs met locally, at less expense and more safely. If our design is inexpensive and easy to reproduce locally, there may be further benefits by the community itself building, selling, and installing more systems to other parajes or groups of dwellings. By educating the community on the benefits of safer and cleaner water and possibly, later on, the necessary sanitary precautions to avoid contamination, the community will be enriched and better able to self-sustain and improve. Every attempt will be made to make the systems installed accessible to people with disabilities.*

2) Negative Impacts: What potential negative impacts could arise from this project? Could any segment of society be marginalized or lose their current livelihood because of this project? Are there negative environmental implications anticipated as a result of this project? How might this project affect community dynamics? (Note: Please thoroughly consider this question as any interference with the present conditions of a community will have negative impacts. Listing potential negative impacts may not adversely affect program approval. However a lack of consideration to this question will likely adversely affect the application.)

- One-Two paragraphs: Approximately 100 words

*Because of the impracticality of reaching every member of the community during this first project of the program, choices will have to be made on who gets the benefits of the first installations and systems that we can design and build. This could potentially be a negative impact, since it is possible that some members will feel “left out” by not benefiting directly from the first phase(s) of the project. This only emphasizes the importance of community participation and consensus with the chosen implementation approach .*

3) Reducing Negative Impacts: How, if at all, can these potential negative impacts be reduced?

- One-Two paragraphs: Approximately 100 words

*We believe the negative impact can be reduced or eliminated by engaging the community and FUNDESA, who has worked within the community for years, early on. We should have them participate fully in the decision process about what is the best design approach and who should be the first beneficiaries of the project. Perhaps the negative impact could be mitigated by pointing out the micro-enterprise aspects of the project, and presenting it as an opportunity for the whole community to improve and collectively save money by not having to purchase as much water from the Los Juries municipality. In general, given the needs of the community and the benefits to be derived from more water and better health, it is doubtful that the negative impact will be major.*

### **B.3) Beneficiary Group(s) Information for Project**

1) Primary Beneficiary of Project:

*A subset (conservatively estimated at about 5%) of a conglomerate of family dwellings spread-out over an area of approximately 200 km<sup>2</sup> (the subset will be spread out over a much smaller area). The whole community is basically made up of peasants and rural families (approximately 1,300 families, with a total of 6 to 7,000 people) that live in the departments of Ibarra and Taboada, in the center-East of the Santiago del Estero province.*

2) Beneficiary Demographics: Describe the beneficiary group(s) in terms of ethnicity, tribal and religious affiliations, spatial organization, primary occupations and current income of all the sub-groups (if more than one). Are social relationships harmonious in the area where the beneficiary groups reside?

- One paragraphs: Approximately 100 words

*The population is very homogeneous, by far the majority of people were born in the area, and there are strong family and cultural links. They are all “criollos”, in other words offspring of the original inhabitants mixed with immigrants from Spain and, to a lesser degree, immigrants from Syria and Lebanon, who established themselves in the area in the early 1900’s. As it is the case in most of Argentina, Catholicism is the predominant religion, but it is not practiced very strictly, a fact emphasized by the lack of a Catholic church in the area, according to FUNDESA. There are a few small groups of evangelicals. The population density is very low, with the dwellings spread out significantly (see attached map of the area). Main*

*economic activity is agriculture with a few family herds of goats, but no large-scale livestock. Some are employed in the service industry in nearby Los Juries. As you can see from the map there are many small schools, which provide a source of employment too. As far as we know relationships are harmonious but we would venture to say that many of the families do not even know one another, given the fact that the area spreads over a large territory and cars are not a common possession. This reduces the interaction to relations with nearby neighbors and family members.*

3) Project Ownership: Who is expected to own this proposed project? Will a committee need to be established? Who will manage and maintain the project? Who will cover the cost of maintenance?

- One paragraph: Approximately 150 words

*We will follow FUNDESA's guidance and advise in every respect that concerns the community, including project ownership. This is because FUNDESA has long established roots in the community and is a respected entity. The ownership will depend on the final design approach. If the route chosen is individual water collection systems in households, it is likely that the ownership will fall in the hands of the house owner. If the route chosen is a more central place to serve a few households then the responsibility of maintenance and ownership will have to be shared. The intention is to use materials available locally and to use simple, easy to reproduce designs. That should go a long way to simplify the task of ownership and maintenance. We do not believe that a committee will need to be established at this point, but an alternative to be considered is to hand the ownership and maintenance to a joint commission with participation from members of the community and representatives of the Municipality of Los Juries. In summary, many of these things will have to be assessed as we continue to gather information during an assessment trip and beyond.*

4) Project Accessibility: Will the proposed project be freely accessible to all persons in the local area, or will it be restricted for use by certain groups? Will a fee structure be involved? Who will decide on the amount of the fees and who will collect the fees?

- One-Two paragraphs: Approximately 100 words

*Once again this depends on the final design approach chosen. If there is a decision to implement a fee structure, we will prefer that the fee structure be set by consensus of all those affected in the community. Perhaps this would be a key role of the joint commission mentioned above.*

5) Community Support: What support both financial and/or non-monetary will be offered by the local community (housing, materials, continued education, etc...)? Will local labor be offered free as part of the contribution from the beneficiary group(s)? Has a specific agreement been reached as to what EWB-USA and the community will each provide?

- One-Two paragraphs: Approximately 100 words

*Housing will be provided in Los Juries for the EWB-USA team. Most, if not all, of the materials will be procured locally, some maybe donated by the community and/or FUNDESA. We expect labor to be provided free by the community members. Training and continued education can be set up through the FUNDESA vocational school. No specific agreement has been reached, but many of these issues have been preliminary discussed.*

## **B.4) Travel Logistics for Project**

1) When is the best time for a visit to the area considering weather, transportation access, holidays, as well as availability of the beneficiary group(s) and NGOs facilitating this project?

- One paragraphs: Approximately 50 words

*Access and transportation is available year-round. Direct flights to Buenos Aires are available daily from the US . Travel to Los Juries is via bus overnight daily and (approximately 12 hrs). Nov-Mar can be extremely hot. May-Oct would be milder and preferred for implementation. FUNDESA is available year-round*

2) What local accommodations are available for the EWB-USA team? What are estimated per day living costs for the visiting team? Will the team stay with the local community members?

- One paragraph: Approximately 50 words

*FUNDESA can make a house available free of charge in the town of Los Juries for the team. We do not know details about its size and amenities. Transportation to/from the community (about ½ hr drive) can be provided by FUNDESA at minimal cost. At current exchange rate of almost 3.50:1 living expenses are estimated at about \$ 20 US per person, per day (about 70 pesos). The schools and the health clinic are also alternative places for temporary housing for the EWB-USA team members.*

3) What hazards may exist to persons from EWB-USA traveling to this project location (health issues, transportation difficulties, weather, insects, diseases, snakes, etc.)

- One-Two paragraphs: Approximately 100 words

*There should be no transportation difficulties or weather issues. The most important health hazard is the Chagas Disease, which is spread by the “vinchuca” insect. The risk is only at night, since during the day the insect hides. The risk is also typically confined to primitive dwellings with cracks in the walls, walls made of clay and roofs made of straw where it is easy to find cracks for the vinchuca to hide during the day and to drop at night to bite. The team will be housed in the town of Los Juries so there will be no concerns about clay walls or straw roofs. Nevertheless, all precautions recommended by FUNDESA will be strictly followed and the team will be required to bring insect nets for extra protection while sleeping. Another important hazard is, of course, the drinking water. FUNDESA has recommended that the team members drink only bottled water, which can be procured at the town of Los Juries.*

4) Where is the nearest hospital or clinic approved by the **US State Department or Peace Corps**? What kind of health care providers regularly staff this facility? How far from the project site? Provide an address and phone number(s).

- One-Two paragraphs: Approximately 100 words

*In Los Juries (about ½ hr drive from the rural area) there is the District Hospital. Also in Añatuya, the second largest city in the province, about 1 ½ hr drive from the rural area, there is a Regional Hospital. Finally, at about 2 ½ hr drive is the capital city of the province, Santiago del Estero. Also, withing the community FUNDESA operates a first aid health clinic shown in the attached map near the “La Nena” label.*

5) Are people from the USA and aid from the USA welcome in the proposed project area?

*There is no animosity against people from the USA. However, as it is typical in areas that are marginalized and isolated, the people tend to be very distrustful of people from other regions, specially if they are foreigners. Distrust does not mean aggression, or hostility though, and can be overcome by working with FUNDESA every step of the way, since they know the intricacies of the relationships and are sensitive to the situation of the community. On our part, the EWB-USA team has to be very aware of this and work hard to producing results and taking steps that will slowly earn the trust and respect of the community.*

6) Have people from the USA worked in the area before? If so who and in what capacity?

- One- Two paragraphs: Approximately 50 words

*Not to our knowledge specifically. However, the United Nations did work in the area a few years back and it is safe to assume that some of the workers were from the USA. It is important to note that Argentina is a country well aware of the US and where international news, cable TV, etc are readily available in many places, making it very likely that the community members do not see people from the USA with any particular reservation or resentment.*

**SECTION C: CHAPTER INFORMATION**

*If a specific EWB-USA chapter wants to work on this Program/project, then that chapter must fill in this section. Otherwise, the application will be posted on the EWB-USA website for adoption by a chapter.*

**C.1) Chapter Information**

1) Chapter Name: *Chesapeake Professional Partners*

2) Eligibility Criteria: *(Note: We will not assign projects to chapters without a current chapter agreement)*

2a) Does your chapter currently have an active program/project (circle)? *No*

- If Yes, please fill in the table below:

Country	Region	Type of Project	Year Started

*(Note: The Application Review Committee will take into consideration the number of active Programs/projects when approving a new Program/project for your chapter.)*

3) Chapter Organization:

3a) For Professional Chapters:

- Please fill in all fields below. On an attached piece of paper, please include a brief summary of each main participant’s technical background, their cultural experiences, and other EWB-USA projects worked on in the past & the resume of the technical lead(s).

	Name	E-mail Address	Phone
<b>President</b>	Brian Houston	bhouston@gmail.com	540-558-8315
<b>Project Lead</b>	Guillermo Warley	gmwarley@comcast.net	301-514-5851
<b>Technical Lead #1</b>	Teresa DiGenova	DiGenovaTM@bv.com	301-921-2879
<b>Technical Lead #2</b> <i>(if applicable)</i>			

3b) For Student Chapters:

- Please fill in all fields below. All projects must have at least one mentor who will lead the technical aspects of the project and travel with the students on both assessment and implementation trips.
  - *(Note: The mentor(s) should read document #405-Mentor Qualifications)*

	Name	E-mail Address	Phone
<b>President</b>			
<b>Faculty Advisor</b>			
<b>Mentor**</b> <i>(resume required)</i>			
<b>Student Project Lead</b>			
<b>Education Lead</b>			

**\*\*Note:** Mentors are responsible for the technical accuracy of the project. They can be professionals or faculty. **Mentors must turn in their resume with this application.**

## C.2) Chapter Qualifications

1) Team Overview: How many people will be working on this project?

Number of Students	Number of Professionals	Are all participants members of EWB-USA (Yes/No)
N/A	10	yes

2) Mentor/Technical Lead: Who will be the technical lead(s)/mentor(s) on this project? What experiences/education makes the technical lead(s) qualified for this project?

- o **Please submit the resume(s) of all the technical lead(s)/mentor(s) with this application.**
- One-Two paragraphs: Approximately 200 words

*The technical lead will be Teresa DiGenova, PE. Teresa’s specialty is Potable water distribution systems and wastewater collection system management, evaluation, operation, maintenance, and rehabilitation. She holds an undergraduate engineering degree from the Massachusetts Institute of Technology and a graduate engineering degree from the Georgia Institute of Technology. Teresa has worked with many municipalities and counties in the states of Maryland and Delaware, as well as with the water authority in Washington DC. During her more than 8 years of experience she has been involved with potable water and sanitary and combined sewer projects at every level, including planning, design, construction support, maintenance, monitoring, and evaluation.*

*Teresa has previously been involved with a number of EWB-USA projects in various capacities. She assisted the University of Maryland Chapter's Baan Bo Mai project, which involved potable water source evaluation and selection, pipe and treatment design, and implementation. As the project team's professional advisor, she traveled on the project assessment trip and on the first project implementation trip. She is a founding board member of the Chesapeake Professional Partners of EWB-USA and is currently the chapter Vice President. She is also a member of the Chesapeake Section of the American Water Works Association and of the Chesapeake Section of the Water Environment Federation.*

3) Chapter Preparation: How prepared is your chapter and your chapter members to implement this project? (i.e. training, future plans, teams, roles, learning needs, fundraising, etc)

- One-Two paragraphs: Approximately 100 words

*The Project Lead, Guillermo Warley, is from Argentina. He travels frequently to Argentina, has a complete understanding of Argentinean culture, and is fluent in Spanish. The EWB-USA, CPP chapter has numerous Water/Sanitation professional engineers that intend to work on the design of this project. We also have members that have worked on previous EWB-USA projects and/or served in Peace Corps. We plan to*

*coordinate with each other and play off the strengths of our members. If needed, our chapter is willing to seek out additional training that will enhance our project.*

*Our chapter is prepared to commit to this community for a minimum of 5 years. We also intend to partner with FUNDESA throughout this commitment. The EWB-USA, CPP chapter has been fundraising for a general chapter fund for the past couple of years so we have comfortable funds to start a new project. We intend to continue fundraising through working at sporting games, hosting golf tournaments, obtaining corporate funding, and searching for grants.*

4) **Cultural Challenges:** How prepared is your chapter for the cultural differences between the USA and this culture? What is the local language, and does anyone on your team know the local language? Are there sufficient translators available to meet the varied needs and technical language of all aspects of the project? Are you familiar with the culture and customs? What are you doing to familiarize yourselves with the culture and customs?

- One-Two paragraphs: Approximately 100 words

*As previously mentioned, Guillermo Warley, the Project Lead, is from Argentina. Additionally, many members of our project team have traveled or worked in South America. Guillermo will be able to prepare the team for any cultural differences.*

*The local language is Spanish. Guillermo, along with several additional professionals, is fluent in the language. We also have several members that are able to communicate in basic Spanish. Before travel, we will have a tutorial on basic and technical/construction Spanish vocabulary. Our main in-country contact can speak English, although he is more comfortable speaking Spanish.*

5) **Health Point People (2 required):** Who will be your health point people (see document #406)? How will your health point people be trained (CPR, first aid, etc.)? How do you plan to conduct your community health assessment on your assessment trip and on later trips? Do you have health professionals or students in the health professions (public health, nursing, medicine) on your travel team?

- One-Two paragraphs: Approximately 100 words

*Last year, several of our members were certified in CPR and First Aid training by the Red Cross. Brian Houston (chapter president) and Paul Hlavinka will be our two Health Point People. They will ensure that our first aid kits are updated before travel. They will carry important health information (allergies, medications, etc.) of all travel members during travel and the address of approved hospitals in the area.*

*For our community health assessment, we intend to partner with FUNDESA. Because FUNDESA already works on various health projects throughout the region, they have statistics and information on the health in the area. We will use this information as a basis to enhance our Health Assessment data. With the support of FUNDESA, we will follow up with community members with additional health questions.*

6) **Health & Safety:** Who will be responsible for Health & Safety on the trip and oversee construction safety? EWB-USA now requires that at least TWO members of the travel team have emergency medical training. What are/will be their qualifications?

- One-Two paragraphs: Approximately 75 words

*Our two health point people, listed above, will be certified in basic first aid and CPR. They will also be familiar with the new EWB-USA Health and Safety Program. To ensure that the entire travel team is aware*

*of safety concerns, each morning, the health point people will brief the travel team on hazards and safety (weather conditions, construction conditions, etc.).*

*Kevin Yue, a chapter member who has done extensive work in health and safety for the regional EWB-USA, will be responsible for construction safety. In addition, another member of the team, Jason Willeford will be undergoing training with the Red Cross to join a Disaster Action Team in the next few weeks, and will be able to contribute his knowledge to ensure the safety of the traveling team.*

7) Education Lead: EWB-USA projects require training and education for the communities. Who will be responsible for developing the education materials and for leading the education for the community? What are their qualifications for this role?

- One-Two paragraphs: Approximately 75 words

*Our education lead will be Katherine Strass, an engineering graduate from The Pennsylvania State University currently pursuing a graduate degree at the University of Maryland. Katherine served as a Water and Sanitation volunteer with the Peace Corps in Honduras 07'-09' and has much experience working with technicians and community water associations in the organization and administration of water systems as well as the creation and delivery of environmental and sanitation education to community groups. Educational workshops she previously conducted typically emphasized watershed protection, water management and sanitation practices, and personal hygiene implications with target audiences including various water board associations and sanitary education to youths. Katherine is fluent in Spanish and has also been the lead engineer on rehabilitation, construction, and expansion of rural water and sanitation systems in Honduras.*

### **C.3) Project Sustainability**

*In an effort to assure that the proposed project is maintained and continues to serve the community long after the EWB-USA program is complete, issues of sustainability must be addressed by the chapter.*

1) Capacity Training: Will training of local community members be required in order to maintain the project? What specific educational training will be required? Will verbal or written translation be needed for this education? Who will be translating? If written materials are proposed, in what language? Do you have information on the community's literacy level? Would pictorial materials be more appropriate?

*The design and technical aspects of this project have not been determined. However, we will be sure that the technologies are sustainable and appropriate. We intend for the community members to be involved in major decisions and have input on the design of the project. We also expect the community to be involved in the construction of the project. This will ensure that the community understands the project and that our EWB-USA team is implementing something that is accepted by the community. Training will mainly be hands on and through verbal communication. As of the 2001 census, the "functional illiteracy" rate, those who may have received instruction in reading and writing but have lost it for all practical purposes, in the community is about 35%. If written materials are necessary, they will be in Spanish.*

2) Education Lead: What team member(s) will be in charge of capacity training? What are their qualifications for this position?

*Our project lead, Guillermo Warley, besides being a native from Argentina and knowing the culture and the language, has experience teaching and training in engineering matters at many levels. He will work hand in hand with our Education Lead, Katherine Strass, and our Technical Lead, Teresa DiGenova, to provide the necessary training in ways that are easily understood and absorbed by the community. The collaboration of*

*FUNDESA will also be invaluable in this regard, since they already run a school in the community and conduct many educational programs. Working with them will assure the effectiveness of the capacity training phase.*

3) Project Maintenance and Repairs: What will this project cost to maintain? What components could potentially malfunction and require repair? What will these repairs cost? Are the repair materials readily available locally? Can the community realistically be expected to cover these costs?

*Because the technical aspects of this project are not defined, the maintenance requirements are also not yet defined. We will be sure that any components of the system that could break are available locally. We will also be sure that the community members are aware of where they can purchase replacement parts and how to install them.*

*Depending on the needs and desires of the community, funds from the selling of water could go towards maintenance and repairs. If the community decides that they do not want to charge for water, then we will establish an agreement between the EWB-USA, CPP chapter, FUNDESA, and the communities of who is financially responsible for what aspects of the project. If it is determined that individual household solutions are the best method of improving water availability and quality, then each household would be responsible for the maintenance of their system*

*Our chapter is well aware and very sensitive to the concerns of FUNDESA about having to assume responsibility for maintenance and sustainability of the systems built and installed. We will make sure that all parties are comfortable and clearly understand the respective responsibilities before any implementation takes place. Furthermore, we will, as mentioned before, remain committed to the success of the program for a minimum of 5 years.*

4) Project Resolution: What, if any, final measures will be taken at the project’s completion to assure the project remains operational in the absence of the EWB-USA Chapter? Will local project lead(s) manage the project? How will the community be involved in the sustainability decision-making process?

*The community will be involved in all aspects of the decision making process to ensure that the project is wanted and will be used and maintained by the community members. FUNDESA will help our team in communicating with the community and staying in touch while our chapter is not present. If the design calls for a large community system, then we will coordinate with the community to find leaders that will be responsible for the system.*

*FUNDESA has an active program and has been working for 2 years in developing “social promoters” in the community and providing them with adequate training. These individuals assume a leadership role and are an important part of the social structure of the community. Their help will be enlisted to assure continuity. Other local leaders of influence are the schoolteachers and principals, who could also become involved in the decision-making process.*

5) Program Timeline: How will the program develop beginning with your first project? You do not need to know all of the timeline or budgeting, but estimate as best as possible. It will help your chapter in planning the overall program.

Project Sequence	Title	*Type(s)	Estimated Cost	Estimated # Assessments	Estimated # Implementations	Estimated Start Date
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<b>Project #1</b>	Water Collection & Treatment	WS/WT	\$ 15,000/phase	1	4	5/2010
<b>Project # 2</b> <i>(If applicable)</i>	Sanitation Improvements	SA	\$ 8000/phase	1	4	5/2012
<b>Project # 3</b> <i>(If applicable)</i>	Construction Techniques Training	CN/ED	\$ 5000/phase	1	2	5/2014
<b>Project #4</b> <i>(If applicable)</i>	Installation of Solar Panels & Electricity Generation Training	EN/ED	\$ 10,000/phase	1	3	5/2015
<b>Total</b>	N/A	N/A	\$ 132,000	4	13	

\*Agriculture (AG), Alternative Fuels (AF), Construction (CN), Energy (EN), Environmental (EV), Ecosystem (EC), Education (ED), Information Systems (IS), Health and Safety (HS), Micro-Enterprise (ME), Sanitation (SA), Socio-Cultural (SC), Water Supply (WS), Water Treatment (WT)

6) Estimated number of years to complete program and assure program sustainability:

*Minimum: 5 years*

*Goal: 10 years*

**SECTION D: SIGNATURE & PICTURES**

1) Additional Information: Please add any other information you think is relevant to this project.

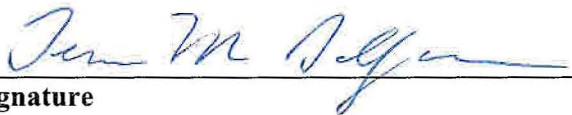
- One-Two paragraphs: Approximately 200 words maximum

*It is important to understand that in FUNDESA we have a very valuable partner with a tremendous insight and foothold in the community. This is a very positive aspect of this program, but at the same time it imposes a responsibility upon the CPP chapter to make sure we work closely with them at every step of the way. FUNDESA is an NGO with a governing body that needs to understand, agree and approve every commitment they make. We have to gain first hand knowledge of the community itself, its dynamics and how all the data and knowledge we have acquired about them through our contact with FUNDESA actually plays out and influences how the project develops. Our project lead firmly believes that a first assessment trip is of paramount importance and may affect many of the details laid out in this application, but it will ultimately insure the success of the program's mission.*

2) Please add pictures that may be helpful to understand the project.

- **Please add pictures as JPEG files**
- **WE WILL NOT ACCEPT PROJECT APPLICATION FILES THAT ARE OVER 2MB.**
  - (To add a picture as a jpeg, go to Edit → Paste Special, and choose “Picture (jpeg)”).


3) Please sign and date this form:




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**Signature**

9/15/09	Teresa DiGenova	DiGenovaTM@bv.com
<b>Date</b>	<b>Printed Name</b>	<b>E-mail Address</b>




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**Signature**

9/15/09	Guillermo Warley	gmwarley@comcast.net
<b>Date</b>	<b>Printed Name</b>	<b>E-mail Address</b>

4) Please submit this form electronically to the project managers at [projects@ewb-usa.org](mailto:projects@ewb-usa.org):  
*Note: Applications are only reviewed at specified times of the year. Please see the EWB-USA website for submission deadlines.*