WSF Water Catchement Library Submittal Outline

The purpose of this Water Development Design and Installation (WDDI) Library is to allow anyone or organization to review existing designs, the materials used, installation details, general costs and final installation photographs. We do this to assist anyone or any organization in gathering information and ideas for their own wildlife water installations.

To make this useful, we want to divide the submittal into sections, each one in a labeled folder. All folders would be located in a master folder with a name, who did the job and a construction site/s location identification.

While we recognize that some installations may not include the type and volume of information outlined below, any amount would be useful in most cases. In fact, for some installations, a few photographs along with major equipment and materials descriptions might be enough for some organizations to get started.

The following outline highlights the items that might be included in an ideal WDDI library package.

I. Design Basis Scoping Paper.

- Name of the Project.
- What is the project and where is it located?
- Why is it needed?
- What wildlife does it serve?
- What are the major design components?
- What are the estimated or actual costs.
- What were the funding sources?

II. General Project Specifications (major components).

- Type of rainwater collector or pump/s.
- Type and size of mater holding tank/s.
- Main piping materials.
- Fencing material, if used.
- Remote monitoring equipment.
- Water delivery systems.

III. Design Drawings and Construction Details.

- Any general drawings or sketches.
- Computer aided design (CAD) Drawings, if used.

- Materials of construction list.
- Special materials specifications.
- Construction/installation instructions.

IV. Special Design Calculations.

- Rain collection rates on the collector/catchment platform.
- Pump/s sizing if any are used.
- Rain collector-to-tankage nozzles and piping sizing.
- Wind loads for collector platform and tankage.
- Drinker evaporation rates and sizing for average worst-case conditions. This may include wind velocity considerations in the calculations. Many states have this information in tabular form.

V. Final Construction Costs.

- Materials for rain collection/catchment and support foundation.
- Piping and fittings.
- Holding tank/s and drinkers.
- Fencing, if constructed.
- Paid labor costs.
- Assumed credit for volunteer labor.
- Special Operations; truck haulage, helicopter transport, etc.

VI. Post Construction Activities.

- Site clean-up and rehabilitation.
- Periodic inspection and maintenance planning.
- Photo or on-site surveillance/documentation of drinker wildlife use.
- Report back to funding sources and/or donors.
- Acknowledgement and Information Signage.

VII. Photograph/Video Documentation and Scientific Records.

- Pre-construction site photos.
- Material staging.
- Material Transportation.
- Construction activities.
- Special operations.
- Finished Construction.
- Volunteer work and group photos.
- Wildlife usage surveillance.

We realize that for many wildlife water installations much of this information is not available. However, we are trying to create ideas and concepts associated with wildlife water development. We ask everyone and all organizations to submit what they have and how they have done their ‘guzzler’ projects.

There are many private landowners, NGOs and International Countries and organizations that are interested in providing wildlife water aid. This is a good opportunity for the Wild Sheep Foundation and all its Chapters and Affiliates to take the lead and contribute to this effort.

Please share your experience and knowledge — The Wild Sheep Foundation