

Water Harvesting System Scoping from Wahaso

Scoping is the crucial first step in any water harvesting project. Wahaso supports its clients with a best-in-class scoping process that quickly identifies the best system approach to maximize the value of a custom water harvesting system for any project.

We help optimize water sources and uses, and provide a system concept and project budget so clients are confident that they have the information they need at each step in the process.

Proper System Scoping is Essential to an Efficient Harvesting System

Wahaso's Objectives for Every System Design

- Make a significant and meaningful impact on reducing the amount of municipal water use
- Match a system to meet the unique characteristics of the building
- Ensure that the water is safe for storage & application
- Keep the system as simple as possible
- Keep the system cost-per-gallon saved as low as possible





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Water Scoping Process

1. Consultation

We want to learn everything about your project. What type of building is this? How will it be used? What are the motivations for having a system? ROI on water savings? LEED certification? What water source(s) would you like to collect? How do you want to use the harvested water? What site or budget constraints must be considered?

2. Supply and Demand Analysis

Based on the consultation, we will analyze all potential supplies of water for harvestings and see how that balances with projected demand. The objective is to maximize the total water savings and match supply to demand as closely as possible month to month.

3. Cistern Modeling

Often the most expensive component of a rainwater harvesting system is the water storage cistern. Wahaso uses a proprietary computer model to evaluate the value in water savings of different cistern options. Six years of actual daily rainfall history for your area are used to optimize the proposed storage capacity.

4. System Concept

Based on our consultation and analysis, we will recommend a system concept for the project that includes recommend water sources and uses, storage methodology, filtration, pressurization and controls. Our concept is written in plain English as a series of steps and assumptions so that all team members can understand the approach and comment. We include a projection of total annual water savings from the system. We then work with you to refine the concept and develop an initial engineering schematic.

5. System Budget

Based on the agreed upon system concept and initial design, we will provide a budget range for the system that can be used in your planning. Our budget number identifies key assumptions and has a low to high range so that the building owner can determine if the system will work in the overall project budget. If local water rates have been provided, we can also project the ROI for the system. Most systems break even in 8-16 years depending on the system efficiency and the local price for municipal water.

Let us scope your project! Contact Wahaso's Client Service Team Today Phone: 800-580-5350 **What does Scoping cost?** For most projects, Wahaso does not charge for Scoping. We see this step as our opportunity to establish our company as the expert partner you are seeking in your project.

During Design and Specifications, our engineering team does the detailed engineering work that support the proposed system. Wahaso can provide schematics and skid drawings in 2D and 3D CAD that can be included directly into the building specifications. These detailed designs will be used to quote the final system and build the skids for the project. Depending on the type of project, the cost of this stage may be included in the price for the delivered system or provided in a consulting agreement.

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