Living Water system planning

Installation readiness and monthly operation | Agrosource Group grower guide

Plan the equipment, operating responsibility and recurring work before the first irrigation. This guide brings the supplier's process into a practical handover format. Use it to prepare questions, assign owners and keep records alongside the current manufacturer manual and product label.

Two parts of one program
Living Water is the irrigation-connected bioreactor system. SoilPHIX is the microbial recharge input. The bioreactor operates inside a tote, where circulation and aeration support the supplier's activation process; an injection pump transfers prepared solution into irrigation. The tote cover limits exposure to sun and heat.

Separate the equipment from the input

Part	Function and planning responsibility
Bioreactor and cover	Confirm the equipment and accessories actually included in the written quotation. Check received parts for damage before installation.
IBC tote	Grower supplies one clean, food-grade, 275-gallon tote. Verify its prior use and condition.
Utilities	Grower provides suitable water and power near the irrigation injection point.
Injection equipment	Grower provides a compatible feeder or injection pump and the required injection connection; confirm the check valve with the installer.
SoilPHIX supply	Agree the recharge supply, season and ordering arrangements in writing. Keep the product label with the operating records.

Set the handover boundary

Agrosource planning guidance: identify who will approve the irrigation connection, commission the equipment, train the routine operator and respond to a fault. A shared installation date is useful only when these responsibilities are accepted. A distributor discussion does not by itself establish what is included, a service response time or a billing agreement.

Ask for a site-specific written configuration covering the intended blocks, irrigated acreage, injection arrangement and operating schedule. Retain the exact manual revision and product label used for sign-off. If the proposed equipment changes, reopen the compatibility check before commissioning.

Use this guide with the originals
This is an original Agrosource Group planning aid. It does not replace equipment instructions, the supplied Soil Phix label or site-specific advice. The companion SoilPHIX and field reference guide explains the evidence and listing documents.

Sources and authorship: Living Water Agriculture: How It Works; Requirements. Agrosource Group planning guidance.

Prepare the installation site

Readiness review | Complete before arranging commissioning

The supplier calls for a clean food-grade 275-gallon tote, nearby water and power, injection equipment and recurring SoilPHIX supply. Its setup material specifies a flat-bottom tote in a level location. Establish readiness before the equipment arrives so unresolved site work does not consume the commissioning visit.

Readiness checklist

- **Site access:** mark the proposed position on a site plan. Confirm the operator can reach the fill port and remove components for care without moving unrelated equipment.
- **Supply scope:** reconcile the quotation, delivery list and grower-provided items. Give each missing item an owner and a completion date.
- **Installation review:** have the installer assess the selected connection and existing irrigation controls. Record any prerequisites they identify.
- **Operating coverage:** name a primary operator and a backup. Make sure both know where the approved instructions and escalation contacts are kept.
- **Supply planning:** identify where packages will be received and stored according to current product instructions, and who will check deliveries.
- **Records:** create one system identifier and use it consistently on configuration notes, maintenance entries and field samples.

Questions to close before work starts

Question	Record the agreed answer
Which blocks are served?	List block names and acreage; identify any seasonal changes.
What configuration was approved?	Record pump model, settings, connection details and the responsible installer.
What needs specialist confirmation?	Water suitability, electrical provision, irrigation compatibility and safe isolation arrangements.
What happens outside the growing season?	Obtain shutdown, storage and restart instructions for the actual installation.

Agrosource guidance: an unanswered technical question is a handover item, not an invitation to improvise a setting. Ask the supplier or responsible installer for written direction where the source material does not state a specification. This guide does not set electrical ratings, water-treatment limits or injection-pump capacity.

Readiness confirmed by and date

Open items and owner

Sources and authorship: Living Water Agriculture: Requirements; Living Water system setup, English, 2026. Checklist and question prompts by Agrosource Group.

Allow time for commissioning

Physical installation and biological startup are separate stages

The supplier estimates 30 to 60 minutes for physical setup and says the bioreactor is configured for the irrigated acreage. Treat that estimate as an equipment-installation guide, not a promise of immediate microbial application. Actual site work and unresolved connections can add time.

Stage	Supplier timing or action	Handover record
Install	Prepare the tote, fit the system and complete the approved water, power and injection connections.	Installer and configuration
Condition	Run circulation and aeration for one hour before the initial microbial addition.	Start and finish times
Activate	Add the initial microbes as directed, then allow 12 to 24 hours for propagation before inoculation.	Addition time and earliest release
Release	Complete the supplier's startup checks and confirm the irrigation delivery arrangement.	Release time and approving person

Keep the sequence visible

Inspect the received equipment before use. Confirm that circulation and oxygenation work before introducing SoilPHIX through the upper fill port. A clean funnel helps contain the addition. Secure the tote cover after the initial addition. Use the current illustrated instructions for placement, assembly and connections.

Do not turn elapsed time into automatic approval

Agrosource handover guidance: the timing record is one check among several. Record who observed normal operation, which settings were verified and whether any unresolved item remains. If the system has lost power, circulation or water during startup, obtain the supplier's restart direction rather than assuming that the original release time still applies.

Before applying power, verify that air stones and circulation pump are submerged. Keep the clear circulation outlet above the waterline and the injection intake strainer off the tote bottom. Retain the acreage-specific injection settings unless the supplier reconfigures them. Check positioning against the illustrated manual.

A useful commissioning record
Record the manual revision; system ID; installer; setup completion time; conditioning start and finish; initial input lot and addition time; observed circulation and aeration; propagation period; approved injection settings; release time; and any follow-up item.

First irrigation release time

Approved by and reference

Sources and authorship: Living Water Agriculture: Setup Guide; Living Water system setup, English, 2026; How It Works. Recordkeeping guidance by Agrosource Group.

Complete care before recharging

Monthly maintenance | Supplier sequence with an operator handover

Schedule monthly service before the next SoilPHIX addition. Automation still requires an operator to check, clean and document the system. Keep the approved maintenance instructions available at the installation.

Monthly care sequence

- **Isolate:** turn off both the water and power before disconnecting or removing parts.
- **Filter:** disconnect the hose at the filter housing, remove the water filter and rinse away debris with fresh clean water.
- **Submerged parts:** remove the bioreactor and clean the float valve, air stones and circulation pump using fresh water only.
- **Lines:** inspect the circulation lines and clear buildup or blockage.
- **Reassemble:** return the bioreactor to the tote, reconnect water and restore power.
- **Verify then recharge:** confirm circulation and aeration, then introduce the SoilPHIX pack through the fill port using a clean funnel.

Make the restart check useful

Agrosource guidance: record what was observed, not just a completed checkbox. A note such as "flow restored after filter cleaning" is more useful at the next service than "done." Identify any component requiring follow-up and who accepted responsibility. Keep unusual conditions in the log even if normal operation returns.

Observation	Information to give the supplier or installer
Poor circulation or aeration	When it began; which components were cleaned; what remains abnormal.
Uncertain fill behavior or leakage	Where it is visible; when it occurs; any change since the last service.
Power or water interruption	Approximate start and duration; irrigation events affected; current system state.
Missing or unidentified recharge	Package identity, delivery date and the last documented recharge.

These prompts help describe a problem; they do not authorize an improvised repair or a different input. If the required operating checks are unresolved, hold the recharge decision for current supplier guidance. Do not add a cleaning chemical, change a dose or bypass a component on the strength of this guide.

Coordinate supply and service
The supplier describes monthly pre-measured recharge deliveries and on-site activation for irrigation delivery. Confirm the actual supply arrangement and plan service before addition. Seasonal dates, package scope, price, billing and cancellation terms must come from the accepted agreement.

Sources and authorship: Living Water Agriculture: Maintenance; Subscription. Fault-reporting prompts and service-record guidance by Agrosource Group.

Keep an operating record

Reusable log | Connect the physical system to the field program

Use one entry for each service or exception. Retain completed pages with the configuration and current label. A clear record helps a replacement operator understand what happened and gives the supplier enough context to respond to a question.

Minimum record for each monthly visit

Record field	What to enter
Date and operator	Actual completion date, system ID and the person doing the work.
Care and checks	Tasks completed, components needing attention and observed restart condition.
Recharge identity	Exact product, package or lot identifier, addition date and relevant instruction reference.
Irrigation context	Blocks served, any changed acreage or schedule and the approved configuration reference.
Exception and closure	What occurred, who was contacted, agreed direction and the date it was resolved.

Monthly service log

Date and operator	Care and restart observations	Recharge record	Open item or closed

Review the record before repeating a routine

Agrosource guidance: compare the new entry with the preceding one. Repeated debris, unexplained delivery changes or recurring interruptions deserve a specific question to the installer or supplier. Avoid repeatedly accepting an unresolved condition as normal simply because the previous operator worked around it.

Record changes to blocks, acreage, equipment or irrigation schedules and ask whether the configuration still applies. A functioning delivery system does not by itself establish a crop response.

Use the companion SoilPHIX and field reference guide to plan measurements and interpret the supplied field comparisons. Keep the operating and evaluation records together.

Sources and authorship: This page is an Agrosource Group recordkeeping worksheet. Read with the current manufacturer manual and applicable product label.