Soil Healing

Good For The Soil, Good For The Soul

Restoring Soil Health and Saving Money With Live Algae and Advanced SensingTechnology

SOIL HEALING 60-DAY NO RISK TRIAL PROGRAM

Combining EnSoil Algae bio-stimulant with Groundworx soil analytic sensing technology creates a synergistic approach to modern agriculture. The combination of technologies promotes sustainable farming and growing by improving water and nutrient management, enhancing soil health, and enabling precise, real-time, data-driven decisions that benefit both crops and the environment.

- **Improves Soil Health. Increases Crop and Plant Production. Lowers Input Costs**
- **Significantly Saves Water Usage and Irrigation Costs**

- **Enhanced Nutrient Availability and Uptake. Real-Time Monitoring of Soil Moisture, Salinity and Temperature.**
- **Precision Agriculture and Resource Efficiency. Works With Any Irrigation System.**
- **Improved Soil Functionality and Microbial Activity. Quick and Easy Installation.**
- **Water Retention and Soil Structure Enhancement. Improve Cost Effectiveness, Reduce Water Waste**
- **Stress Resistance and Improved Plant Health. Anticipate and Mitigate Stress Conditions**
- **Yield and Quality Improvement. Optimize Soil Conditions**
- **Sustainable and Regenerative. Safe for Humans and Animals. No Runoff Implications**

EnSoil Algae

Creating Living Soil With Live Algae

GroundWorx®

Saving Water, Growing Smarter™

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Combining EnSoil Algae Bio-Stimulant and Groundworx Soil Sensing Technology as a Collaborative Solution

Step 1: Haney Soil Test on Affected Area(s) – Collecting Soil For a Baseline Test

The Haney test works by measuring dynamic carbon, a nutrient that cycles through the following forms: Soil Organic Matter (SOM), Water Extractable Organic Carbon (WEOC) and carbon dioxide gas (CO_2). The Haney test report includes measurements for soil respiration, soil organic matter, water extractable organic carbon (WEOC), water extractable organic nitrogen (WEON), microbially active carbon (MAC%), and a ration of Carbon to Nitrogen (C:N) including many other results

Step 2: Deployment Of GroundWorx Unit(s) To Monitor Soil Conditions For 60-Days

- ✓ GroundWorx GX-1A sensors may be ordered for $0.00 each for this Trial Program.
- ✓ Upon completion of the Trial, GroundWorx will invoice the customer $850.00 for the hardware and $325.00 for the Annual SaaS for each sensor to continue the program.
- ✓ If the customer chooses not to continue, they may return the sensors within 7 days of the trial completion and the invoice will be voided. NOTE: Damaged sensors will be billed at the rate of $850.00. We will monitor current soil conditions, including water usage, for two weeks. Daily water retention, salinity, and temperature data will be constantly provided via an app and User Interface

Step 3: Deployment Of Ensoil Algae on Day 15. 3 Applications – Once Every 2 Weeks for 45-Days

Application of EnSoil Algae at a rate of 8 oz per acre diluted with 20 gallons of water. Can be applied with existing irrigation methods. Photos of treated area need to be provided from beginning of trial and at the end. EnSoil Algae will be provided at no cost during the trial.

Step 4: Repeat Haney Test After 60 Days

Retesting of soil to determine positive soil changes after 60 days.

Step 5: Review of Groundworx Data and Haney Soil Test

Review of Groundworx data and Haney Soil Test to evaluate how soil conditions have improved. Reevaluation of turf or plants to determine visual and actual positive changes.

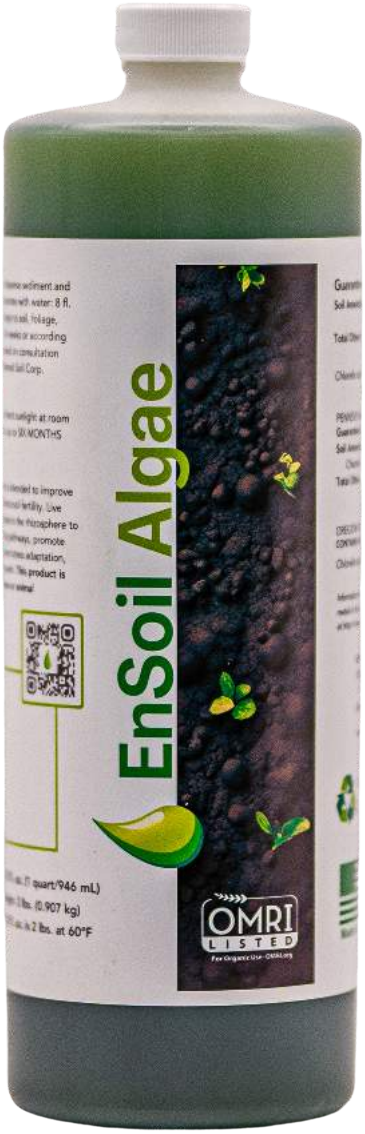
Step 6: Discuss Terms And Ongoing Deployment Schedule

For More Information, Please Contact Soil Healing, Inc
714-760-5112 * David@soilhealing.com

EnSoil Algae

Creating Living Soil With Live Green Algae

EnSoil Algae is a live-cell green algae bio-stimulant that rapidly builds soil biodiversity, the key to reducing chemical inputs, increasing yields, and boosting profitability.



Build Biodiversity &

Enhance Chlorophyll

Strengthen Biotic & Abiotic

Improve Water Retention

Increase Nutrient

In Partnership with

Soil Healing

GroundWorx®

Saving Water, Growing Smarter™

GX-1A Soil Sensor

4 3/4" Circumference

- Autonomous
  LTE Wireless (Cat 1)
  Global Coverage
- Pinpoint GPS Location
  Services
  Bluetooth Onsite Locator
- **Adjustable Depth**
  (2" to 8") + (Bury up to 6")
- 7-Year Battery
- IP67 Waterproof
- GX-1 Alerts Platform
  (High / Low Thresholds)
- Charts & Reporting
  Agronomy Consultation
- 144 Readings / Day
- (Predictive Analytics)
  Machine Learning / AI

In Partnership with

Soil Healing

10 min

Installation

Benefits of Using EnSoil Algae in Combination with Groundworx as a Collaborative Solution

Using EnSoil Algae as a live algae bio-stimulant in combination with Groundworx soil analytic sensing technology can provide a range of benefits for turf, agricultural and horticultural practices, enhancing plant growth, soil health, and resource efficiency.

Here is a detailed explanation of the benefits:

1. **Enhanced Nutrient Availability and Uptake. Real-Time Monitoring**
    - **Live Algae Bio-Stimulant:** Algae are rich in beneficial compounds like phytohormones, amino acids, and micro-nutrients. They can improve nutrient availability and uptake by plants, stimulating root growth and enhancing nutrient absorption.
    - **Soil Sensing Technology:** Real-time monitoring of soil parameters such as moisture, salinity, and temperature enables precise application of bio-stimulants. This ensures that nutrients from the algae are available to the plants when needed, maximizing their effectiveness.
2. **Improved Soil Health and Microbial Activity. Detect Changes in Soil Health**
    - **Live Algae Bio-Stimulant:** Algae can promote beneficial soil microbial activity, contributing to a healthier soil ecosystem. This includes enhancing the activity of nitrogen-fixing bacteria and mycorrhizal fungi, which are essential for nutrient cycling.
    - **Soil Sensing Technology:** Continuous soil monitoring can detect changes in soil health. This data can be used to optimize the timing and dosage of bio-stimulant application, promoting a balanced and healthy soil microbiome.
3. **Water Retention and Soil Structure Enhancement. Monitor Soil Moisture, Salinity and Temperature**
    - **Live Algae Bio-Stimulant:** Algae contain polysaccharides that can improve soil structure, increase organic matter content, and enhance water retention capacity. This can reduce the need for frequent irrigation and improve drought resistance.
    - **Soil Sensing Technology:** Sensors can monitor soil moisture levels in real-time, allowing for precise irrigation management. Coupled with EnSoil Algae, this can reduce water usage and prevent over-irrigation, which can lead to nutrient leaching and soil degradation. Due to constantly changing conditions, most operations experience overwatering and underwatering issues. Groundworx gives you the information you need to reduce water run times, creating healthier soils and ideal growing conditions.

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4. **Stress Resistance and Plant Health. Anticipate Stress Conditions**
    - **Live Algae Bio-Stimulant:** Algae produce compounds such as antioxidants, vitamins, and anti-stress agents that help plants cope with abiotic stresses like extreme temperatures, salinity, and drought. This leads to healthier, more resilient plants.
    - **Soil Sensing Technology:** By tracking soil conditions and environmental factors, farmers and operators can anticipate stress conditions and apply inputs proactively, reducing the impact of stress on crops.
5. **Precision Agriculture and Resource Efficiency. Improve Cost Effectiveness, Reduce Waste**
    - **Soil Sensing Technology:** Provides detailed insights into spatial and temporal variability of soil properties, enabling site-specific management of inputs. This precision can minimize overuse or underuse of water, bio-stimulants and nutrients, leading to cost savings and reduced environmental impact.
    - **Live Algae Bio-Stimulant:** When used in a targeted manner based on sensor data, algae bio-stimulants can be applied more efficiently, improving their cost-effectiveness and reducing waste.
6. **Yield and Quality Improvement. Optimize Soil Conditions**
    - **Live Algae Bio-Stimulant:** The use of algae bio-stimulants can lead to increased crop yield and improved quality by enhancing plant growth, nutrient content, and resilience.
    - **Soil Sensing Technology:** Monitoring and optimizing soil conditions throughout the growing season can ensure that plants are receiving optimal care, further boosting yield and quality.
7. **Sustainability and Environmental Impact. Minimize Environmental Degrading. Safe For Humans and Animals. No Runoff Implications.**
    - **Live Algae Bio-Stimulant:** EnSoil Algae is sustainable and can be produced with low environmental impact. It meets all ESG requirements and can reduce the need for synthetic fertilizers and pesticides, lowering chemical input and runoff.
    - **Soil Sensing Technology:** By reducing the overuse of agricultural inputs and improving the efficiency of live algae bio-stimulants, soil sensing technology helps minimize environmental degradation, such as soil erosion, nutrient leaching, and greenhouse gas emissions.

Summary

Combining EnSoil Algae bio-stimulant with Groundworx soil analytic sensing technology creates a synergistic approach to modern agriculture and agronomy. It promotes sustainable growth by improving water and nutrient management, enhancing soil health, and enabling precise, data-driven decisions that benefit both plant growth and the environment.

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