



# Promoting the Natural Science of Soil Health

Proprietary Company Information – August 2019

# Soil Health Science



**Q2Earth develops natural solutions to promote Soil Health.**

**These solutions provide organic nutrients to plants, water holding capacity for soil, and pest and disease defenses without the use of synthetic chemicals.**



# ABS License



In pursuit of these goals, Q2Earth has licensed on an exclusive worldwide basis the formulations and processes of **ABS**, a natural root and plant growth supplement, from Agrarian Technologies.

- ABS is provided in liquid and granular form
- ABS can be applied on crops, lawns and plantings to replace synthetic chemical fertilizers
- ABS can be combined with compost and mulch to create an enhanced organic planting media
- ABS can be tailored to solve nutrient, planting and disease issues for specific crops such as **Cannabis**



Q2 has also licensed the Wild Earth registered TM for its retail products using ABS

# What is ABS



**ABS** is a natural plant growth nutrition formulation made through a proprietary blending process of seaweed extract and humate components.



**Humate:** the purest carbon matter, provides immediately consumable food for soil microbes and plants.



**Seaweed Extract:** provides amino acids and other nutrients to immediately boost root strength and nutrient uptake.

# ABS Elements



The natural and organic ingredients in ABS and their purposes include:

- **Seaweed and Kelp** – Promotes root growth and immune boosting properties.
- **Humic Acid** – Helps unlock nutrients in the soil.
- **Fulvic Acid** – Binds to locked up nutrients in the soil.
- **Amino Acids** – Builds necessary components for strong plant defenses.
- **B Vitamins** – Helps plants immune system bulk up against exterior stresses.
- **Complex/Simple Sugars** – Feeds soil microbes, boosts carbohydrate reserves.
- **Proteins** – Building blocks for soil structure and plants.

**ABS is a total nutrient package with bio-stimulants to accelerate root growth and nutrient uptake.**

# ABS Benefits



ABS provides multiple benefits for soil health and plant growth, including:

- Stimulates depth and mass of root development.
- Speeds germination to young plants and repair to damaged plants.
- Improves resistance to disease and nematodes.
- Improves resistance to severe weather conditions.
- Improves fungicide performance with fewer/less applications.
- Raises Cationic Exchange Capacity – for soil structure & water retention.



# History of ABS



The science behind ABS is mature, well tested and extensively documented.

- ABS was originally developed by Dr. T.L. Senn, Head Professor of Department of Agriculture at Clemson University
- ABS has over 50 years development – since the early 1960s – and 100s of 1000s of acres in use.
- The original formulation has been improved by Richard Stewart (Agrarian Technologies), including proprietary processes for enhancement of compost and mulch.



Dr. T.L. Senn



# ABS Products



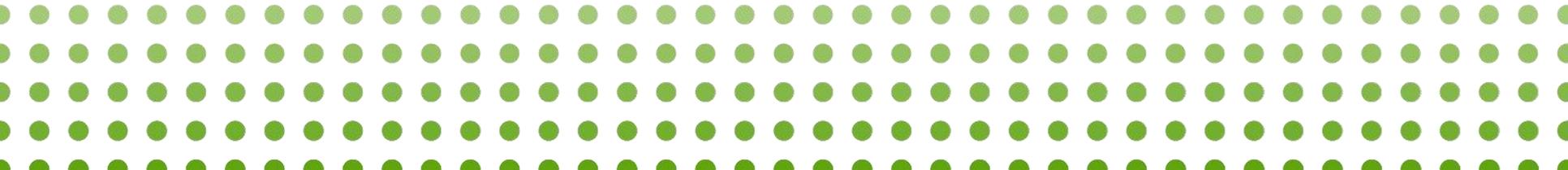
ABS is provided as a stand-alone product in liquid or granular form or added to soil and mulch to provide enhanced performance. These ABS products include:

- **ABS-Liquid:** Used as a direct application to replace synthetic fertilizers
- **ABS-Granular:** Used for slow-release nutrient delivery on lawns and ag crops
- **ABS-Prescription Soils:** Highest nutrient value compost to feed and protect plants, and provide consistency of product season-to-season and area-to-area
- **ABS-Active Mulch:** Functions as a weed barrier while supporting plant health and water management – a stand-out product in a commoditized market
- **ABS-Cannabis Grow:** Soil or Coco Coir based media to support root development during transplant and growth throughout lifecycle

**ABS is approved for organic crop production under USDA standards.**



## **Our Company**



# Q2 Mission



Our mission is to do good for the Earth by making and promoting the highest quality sustainable soils and natural soil supplements that replenish the land, conserve water, boost plant health and reduce pollution.



# Q2Earth Background



Q2Earth is building the leading **Natural Soil Health** company in the U.S. through:



**Strategic consolidation:** through our affiliated company Earth Property Holdings LLC, we own and manage compost facilities in Florida and Texas and have several more in pipeline to close in 2019. **By 2020, we expect to oversee the largest compost company in the US.**



**Experienced management:** we are comprised of seasoned executives with broad compost, waste management, finance and M&A / roll-up success.



**Transformative business models:** we are shifting the focus of composting from waste management to end-product sales, and adding efficient operations, technology and science, and data-based decisions – make them leaner, more profitable and more impactful.



**Smart capital:** Earth Property Holdings is Private Equity backed, with significant capital resources available to implement our growth strategy.

# Leadership



**Kevin Bolin**  
**Chairman & CEO**

- 25 years in the industry, including CEO of two public companies
- CEO of Orège N.A.
- Chairman, CEO of Alter NRG
- CEO, EnerTech Environmental
- Raised over \$275M over career
- Multiple Directorships



**Christopher Nelson**  
**President & GC,  
Director**

- Founder of Q2Power; over 12 years in renewables industry
- Managing Director GreenBlock Capital – boutique M&A firm
- M&A/SEC attorney, formerly with Greenberg Traurig
- Experience with roll-ups in waste industry (Republic)



**Mike Vogel**  
**Senior VP, Facility  
Operations**

- 25 years in the organics management industry specializing in the composting and the paper industry
- Founded Aspen Resources, purchased by Synagro
- Currently owner of Solid Solutions, GM of GWA
- Joining upon closing of GWA



**Richard Stewart**  
**VP, Product  
Development**

- Over 30 years experience in the compost industry
- Founded and sold two compost and mulch companies in Florida.
- Developed multiple innovative science-based product lines including ABS, and built out strong distribution channels for major international companies.



**Bill Kish**  
**VP, Operations &  
Business Development**

- Extensive experience in compost, renewables, and engineered soils industry
- Managed three 100,000 TPY composting facilities
- Designed, permitted and managed construction of a 350 TPD in-vessel biosolids compost facility
- Expertise in marketing compost, engineered soils, and mulch products

## Seasoned industry experts in:



Waste Management  
and Compost/Soils



Facility Management,  
Project Development



M&A and Public  
Company Finance



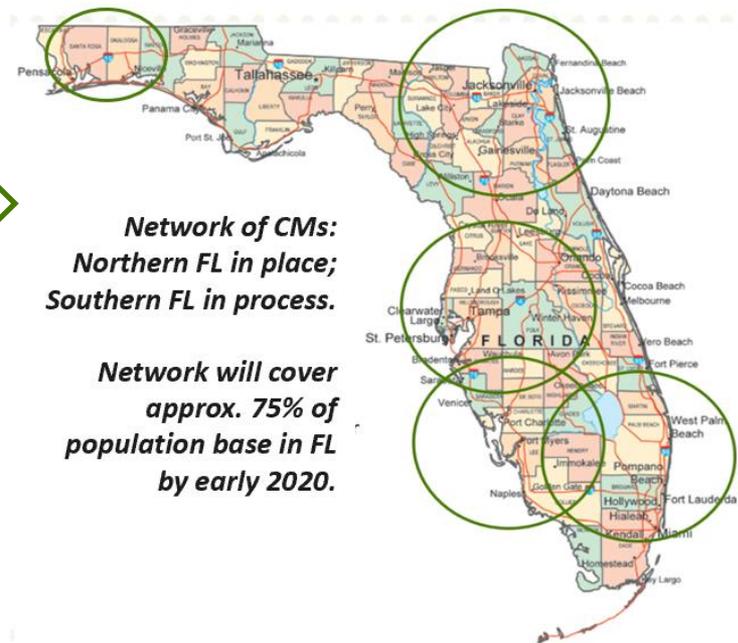
Successful  
Investor Exits

# ABS Certified Manufacturers



Q2 has implemented a Certified Manufacturers (CM) program for compost and mulch manufacturers to resell ABS enhanced products.

- Preferred Tiered Pricing
- Marketing/sales support and educational tools
- ABS applicators provided at cost
  
- Q2 has current CMs in Texas and Florida with emphasis to build-out a broad network in Florida.
  
- CM strategy provides Q2 with an “asset light” growth plan to expand not just reach of ABS Liquid and Granular, but also of higher value compost and mulch.



**Network of CMs:  
Northern FL in place;  
Southern FL in process.**

**Network will cover  
approx. 75% of  
population base in FL  
by early 2020.**

# ABS Master Distributors



Q2 is establishing Master Distributors (MD) of the ABS Liquid and Granular products in Texas and Florida with international growth objectives.

- Preferred Tiered Pricing
- Marketing/sales support and educational tools

Landscape maintenance companies are the primary target for MD status:

- Establish ABS Protocol for ABS liquid and granular applications throughout the year to replace synthetic chemical fertilizers and reduce water usage.
- Provide pre-planting ABS soil amendments to boost organic matter from start
- Reduce input costs (chemicals and water) and provide a safer living environment

## Why Go All Natural with ABS?

Today's families are 2X more likely than their parents to make purchasing and investment decisions that have social and environmental impacts – influencing the food and products they buy, the investments they make, and the places they choose to live.

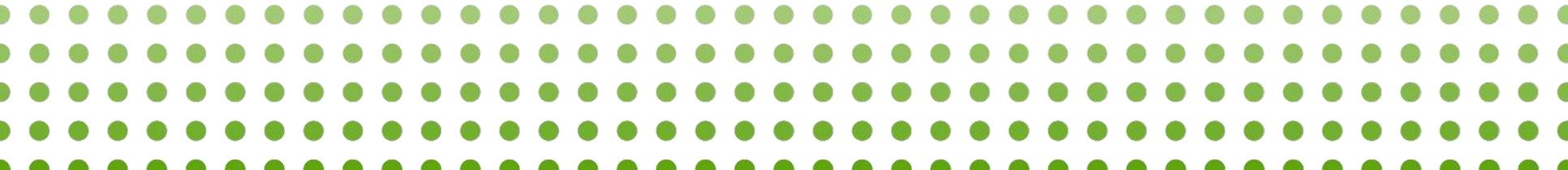
For developers, community planners and HOAs, making the decision to reduce chemical applications and conserve water resources can directly and positively effect the value of properties and the lives of families.

For people that work with the natural environment where we live and work, their families, customers and employees all seek safer, more responsible and economical lawn and garden solutions.

**We only have one Earth and it is our responsibility to leave it better than we found it.**



## **Appendix: Soil Health**



# Compost is a Natural Solution



The best way to restore soil health is NOT by using more chemicals, but by restoring organic matter and microbial balance through high quality compost, natural soil amendments and better land management practices.



*Compost is a natural decomposition of organic matter – plant and animal waste – in a controlled process.*

# Replenishing Organic Matter



The ideal volume of organic matter in soil is **5%**, but much of our soil has <1% organic matter.

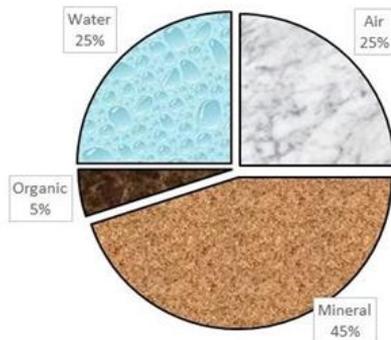
Increasing organic matter in soil serves several important roles:

Attracts, binds and **retains nutrients** needed for plant life, balances pH levels, and **holds carbon** in the soil.

Supports **microbial life** that breaks down nutrients for plants and naturally **fends off disease and pests**.

**Retains water** – each 1 lb. of organic matter holds 20 lbs. of water – needed for plant growth & drought survival.

**5%**  
**For Life**



## *5% Organic Matter can achieve:*

- 30% less water use and higher plant survival in droughts
- 30% to 70% less chemical pesticide and herbicide usage to resist disease and pests
- 30% to 50% less chemical/ nutrient leaching and run-off
- Healthier, sustainable planet

# Water Holding Capacity



For every 1% of organic matter, soil can hold 25,000 gallons of water per acre

5% organic matter can hold 2+ gallons of water per cu ft.

- This is approx. 2.5" of water per sq ft, which is the minimum required water for a 2-week period
- Equates to **30% less watering needed**, and significantly higher survival rates during droughts

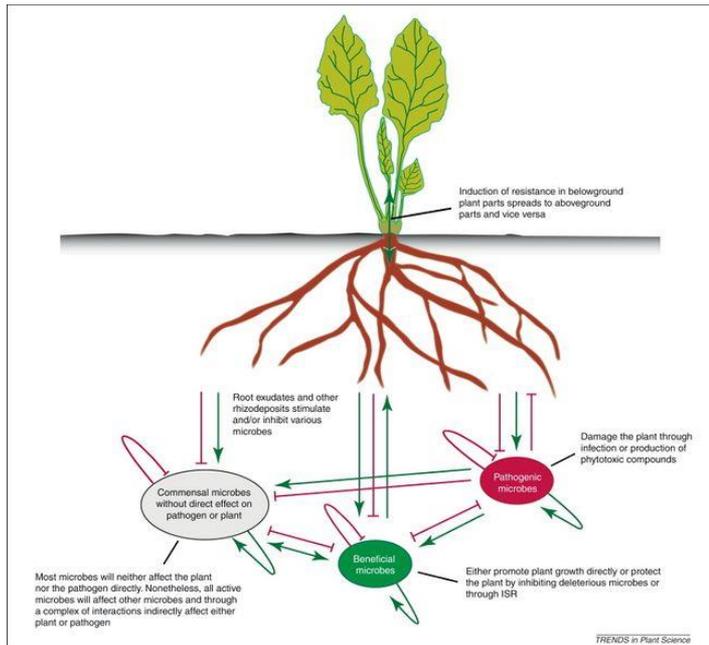


# Reduced Chemicals



Healthy soil requires fewer chemical inputs:

- Chemical fertilizers can be eliminated using compost amendments and a natural supplement program
- Pesticide and herbicide usage can be reduced by 30% to 70% when soil contains natural defense mechanisms of thriving microbial populations.



The microbial population in the rhizosphere of healthy soil is abundant and highly diverse, leaving no empty niche for pathogens to colonize plant roots. Fierce competition for a limited resource base ensures that no single microbial group can dominate. Through these mechanisms, microbes found in well made compost inhibit plant pathogens and create natural soil disease suppression.

# Limiting Water Pollution



Soil depleted of organic matter cannot hold water, and consequently, chemicals applied to the plants and soil run-off or leach into the water.

- Testing of hard soil demonstrates up to 50% chemical run-off
- Testing of sandy soil demonstrates up to 60% chemical leaching

In Florida, the run-off and leaching of chemical fertilizers is one of the leading causes of harmful cyanobacteria (blue-green algae) in our waterways



# Carbon Sequestration



Studies have demonstrated that healthy soil rich in organic matter are better able to hold stable carbon in the soil.

Through photosynthesis, a plant draws carbon out of the air to form carbon compounds. Excess carbon is exuded through the roots to feed soil organisms, whereby the carbon is humified, or rendered stable.

Restoring soils with organic matter has the potential to store in world soils an additional 1 billion to 3 billion tons of carbon annually, equivalent to roughly 3.5 billion to 11 billion tons of CO<sub>2</sub> emissions. (Annual CO<sub>2</sub> emissions from fossil fuel burning are roughly 32 billion tons.)

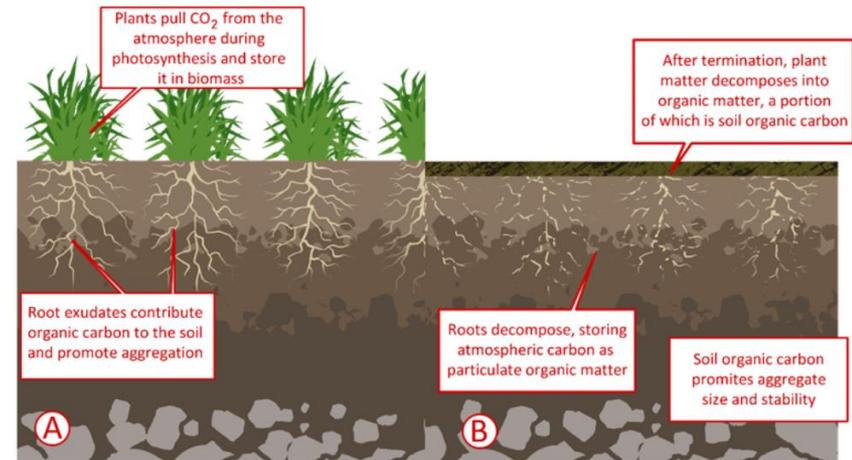


Figure 3. Diagram of how plants sequester carbon A) before and B) after termination.



# Forward Looking Statements

*Certain statements in this presentation constitute “forward-looking statements” within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended. Any statements that refer to expectations or other characterizations of future events, circumstances or results are forward-looking statements. Such forward-looking statements include projections. Such projections were not prepared in accordance with public guidelines of the American Institute of Certified Public Accountants regarding projections and forecasts, nor have such projections been audited, examined or otherwise reviewed by independent auditors of Q2E. Such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Q2E to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements.*

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Thank you

