

**Thomas Vanacore**  
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## **BACKGROUND:**

Pioneering agro-mineral resource identification and procurement for the purpose of soil remineralization and nutrient dense agricultural management for organic and beyond organic farming since 1989. Established Rock Dust Local LLC, ([www.rockdustlocal.com](http://www.rockdustlocal.com)) the first company in the United States dedicated to local and regional sourcing of inputs for climate mitigation, remineralization, enhanced rock weathering (ERW), for agriculture and forestry.

Over 30 years as owner and operator of a specialized masonry construction contracting company with expertise in traditional stone crafting, restoration, new structural stone installation and advanced cement based materials, research and development.

Explicit understanding of engineering, transport logistics, rigging, fabrication and execution of complicated and unique projects under tight specifications and demanding work environments.

## **AREAS of EXPERTISE:**

- Agro-mineral resources, logistics and planning.
- Formulating mineral products for agricultural and forestry applications, mitigation, carbon capture and carbon sequestration technologies, water purification and water quality.
- Construction, stone milling, technical architectural and ornamental carving, masonry, concrete, green building technology, renewable energy and Advanced Cement Based Materials (ACBM).

## **MILESTONE ACCOMPLISHMENTS:**

- Federal Emergency Management Agency (FEMA) Design Award for “Disaster Ready” construction for a full scale engineered density concrete residence prototype, 2000.
- Established the first agro-mineral resource company in the United States with an online presence dedicated to local and regional sources of the broad elemental spectrum rock dusts suitable for Remineralization and Enhanced Rock Weathering, specialty minerals and crop synergists for biological farm management practices, Rock Dust Local, LLC, [Rockdustlocal.com](http://Rockdustlocal.com). 2010.
- Maintains the most extensive known database of economic supplies of regional geologic resources suitable for agronomic applications.
- [Rockdustlocal.com](http://Rockdustlocal.com) has been ranked #1 globally by Google search engines for “rock dust relevancy”.
- Founder, Board Member and CSO of BioRock Minerals, Inc. ([www.BioRoc.com](http://www.BioRoc.com)) a specialty manufacturing facility for Biomineral fertilizers located in Ione, CA 2020-2024
- Founder, Board Member and Chief of Product Development BioCarbon Earth, developing Biomineral fertilizers for regenerative land management and climate stabilization initiatives. EST 2024

## **U.S.A. MARKET “FIRSTS”:**

- The first commercial engineered basalt product for remineralization: BrixBlend Basalt, 2010
- The first commercial remineralized inoculated biochar formulation: RICHMix, 2012.
- The first commercial basalt mineral-humate formulation: BrixBlend-Humate, 2012.
- The first commercial mineralized biocarbon as an effective selective sorbent for Phosphate: 2017
- The first dedicated granulated manufacturing targeting the delivery of minerals and microbes
- The first large scale rail car deliveries of pulverized rock dust for ERW to Canada 2020
- The first commercial production of patent pending technology for ERW: “Biomineal” 2024

## **PROFESSIONAL EXPERIENCE:**

Established Thomas Vanacore & Company Inc., a specialty masonry contracting and stone works outfit, Executing private, institutional, state and federal government work. Owner operator, 1986-2017.

Established the Lemon Fair Insect Control District, a Municipal District covering two rural towns, ground surveying, GIS mapping, and providing aerial application services over six towns and three control districts in Central Vermont, covering roughly 1000 square miles. Appointed Chairman and Field Co-ordinator of the organization. Operations were conducted under the authority of the State of Vermont. 2006-2012

Established and managed a commercial aviation company dedicated to mosquito control and agricultural services, aerially applying 100% natural granular and liquid materials, treating over 50,000 acres over sensitive public and private wetlands and agricultural holdings. 2006-2012.

Established Rock Dust Local, LLC and Rockdustlocal.com online presence, creating the first local and regional sourcing platform for agro-minerals marketing with nationwide distribution. 2010-2021

Executing contracts with the U.S. Army and military subcontractors for the manufacture and delivery of specialized minerals in the construction of full scale training environments for combat engineers on military bases throughout the United States. 2015-2020

Appointed advisor to the governing board of Remineralize The Earth (RTE) a 501c3 non-profit NGO promoting the practice of remineralization as a global initiative. 2015-2024

Established Biorock Minerals, Inc. Ione, California. Elected to the Board of Directors and Chief of Product Development in Ione, California. Manufacturing novel Biomineral fertilizers and biotech processing technology development embedded in large scale commodity production. EST. 2020-2024

Established BioCarbon Earth, Inc. A Delaware registered company dedicated to whole-systems, Nature Based Solutions (NBS) for climate change mitigation through environmental services and CDR deliverables. Appointed to the Board of Directors and Chief of Product Development. EST 2024

Elected to the Board of Directors of HiPhi Earth ([www.hiphi.earth](http://www.hiphi.earth)) a 501c3 non-profit organization committed to supporting regenerative agriculture, bioregionalism, bio based building technologies and community based agricultural economies at scale.

## **AGRONOMIC RESEARCH and COMMERCIAL SUPPLY INITIATIVES:**

Providing materials and knowhow for agronomic applications of basaltic powders as a soil amendment documenting the interactions with bio-carbon, New Harmony Farm, 2012. Co-authored a scientific peer reviewed article published within a collection of scientific writings entitled “Geotherapy”, CRC Press 2015.

Supplying materials for the first full scale, 5 year study documenting “Enhanced Weathering” effects of the alkaline silicates in agronomic applications, with significant implications for controlling green house gas emissions (GHGs) from land. University of Illinois, Urbana USA. 2016-2023

Sponsored field trials, plots and replicates utilizing mineral and bio-carbon formulations. U.MASS, 2016

Investigation of effective regional mineral resources for the control of solution reactive phosphorus (SRP) and Nitrogen. Established manufacturing for nutrient management and filtration applications. 2015-2021.

Supplying materials and knowhow to University of Vermont Dept. of Biology and Soil Science for investigating minerals for solution reactive phosphorus (SRP) filtration applications. 2016-2019

Supplying materials and knowhow to the University of Vermont Agricultural Extension Service for field trials targeting nutrient management under grant from USDA/ NRCS. 2016-2019.

Supplying materials and knowhow to UC Davis John Muir Institute of the Environment Working Lands Initiative, the largest CA based research project dedicated to deploying rock dust, biochar and biomass with a climate mitigation objective, field scale over plots, field and rangeland. 2019-2021

Supplying materials and knowhow to Yale University Dept. of Earth and Planetary Science for Enhanced Rock Weathering at field scale in agronomic settings. 2020-2023

Supplying Materials and knowhow to Cornell University in partnership with UC Davis Working Lands Initiative for Enhanced Rock Weathering at field scale 2021-2023

Supplying Materials and knowhow to Yale University Dept. of Earth and Planetary Science for Enhanced Rock Weathering at field scale, multiple sites, 2023-2024.

Supplying Materials and knowhow to ERW Startups Silicate, MatiCarbon and Terradot for field scale Enhanced Rock Weathering (ERW) projects for locations in the US, 2024-2025

Delivering patent pending technology for production of “Biominerals” and other rock dust resources to field trials in California and throughout the US and Canada for commodity production in Almond, Walnut, Prune, Rice, Tomato, Forage Hay, Corn, Soy, Wheat, Cannabis, Hemp, Pulse, as well as fruit and vegetable. 2010-2025

## **CONTACT INFORMATION:**

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