LIQUID NATURAL CLAY

Soyl

Powered by **Desert Control**

Making Earth Green Again

Executive Summary

Limited resources
Water, fertile soil, imported labor.

Rising demand
Growing population, growing cities, agricultural demand, desert greenery.

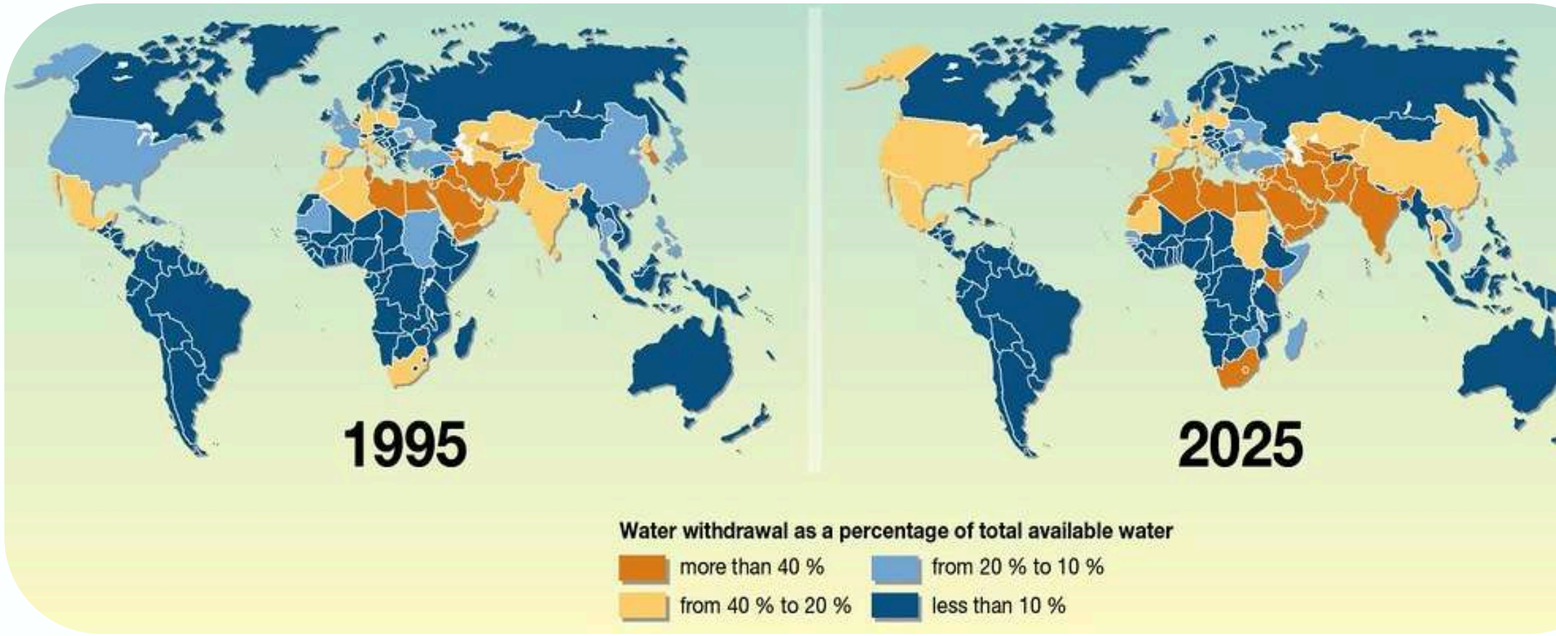
The solution
LNC is an organic, natural, water-saving solution set to be a game changer.

Limited resources, such as **water scarcity, diminishing fertile soil, and reliance on imported labor**, are placing immense pressure on the agricultural sector.

Rising demand due to **population growth, urban expansion**, and increased need for agricultural production and desert greening is further intensifying this strain

In response, **Liquid Natural Clay (LNC)** provides an innovative, organic solution that **conserves water and revitalizes soil,** positioning itself as a revolutionary tool for sustainable agriculture and landscape management.

Global Challenges We Face



Water Scarcity

Agriculture accounts for 70% of global freshwater use, but by 2025, 1.8 billion people will live in regions with absolute water scarcity, severely affecting agricultural sustainability and ecosystem health.

Soil Degradation

Currently, 33% of the world's land is moderately to highly degraded due to erosion, salinity, and desertification, impacting global food security and reducing crop yields by up to 50% in some regions.

Urbanization & Climate Change

By 2050, nearly 70% of the global population will live in urban areas, further stressing land and water resources. In addition, climate change is predicted to reduce global crop yields by up to 25% by 2050, increasing the strain on agricultural land..

Global Challenges – Why Change is Urgent

Irrigation Inefficiency
Up to 50% of water is wasted in traditional irrigation systems.

Soil Destruction
Soil degradation is accelerating due to erosion, salinity, and desertification.

Population Growth
Growing populations and expanding urban areas place immense pressure on agricultural systems and natural resources.

Traditional Farming Challenges

Inefficient Water Use

Requires frequent irrigation, losing up to 50% of water to evaporation and poor soil absorption.

Slow & Costly Soil Treatment

Conventional clay treatments take 7-15 years to show results and demand up to 100kg of raw material per m².

High Costs and Environmental Impact

Expensive and resource-intensive processes that degrade over time, requiring repeated applications.

Labor-Intensive

Highly intrusive methods require significant manual or mechanical labor, increasing operational costs and risks of human error.

Introducing Liquid Natural Clay (LNC)

The Solution:

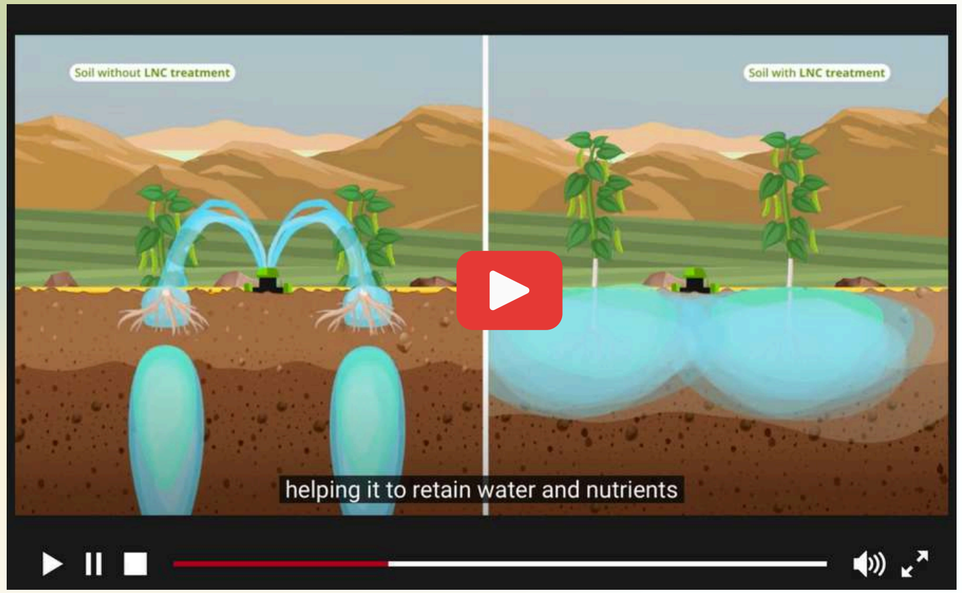
LNC is a patented, 100% natural solution, locally manufactured and applied on-site, that transforms sandy, arid soils into fertile, water-retentive landscapes in just a few hours.

How It Works:

- *LNC forms a sponge-like structure in the soil, retaining water and nutrients at the root level.*
- *One application lasts up to 5 years, saving up to 50% in water usage & boosting yeild upto 62%.*

What is LNC?

Liquid Natural Clay (LNC) is a 100% natural, chemical-free mixture of water and industrial clay. It can be applied using existing irrigation systems, where it seeps into the soil, creating spongy structures at the root level. This allows for up to 50% water savings without the need for additional equipment.



AS SEEN ON

The National Mashable CNN

3 EASY STEPS

APPLY

Apply directly to sand or arid soil to form a sponge-like structure

SAVE

Saves up to 50% water with a non-intrusive method

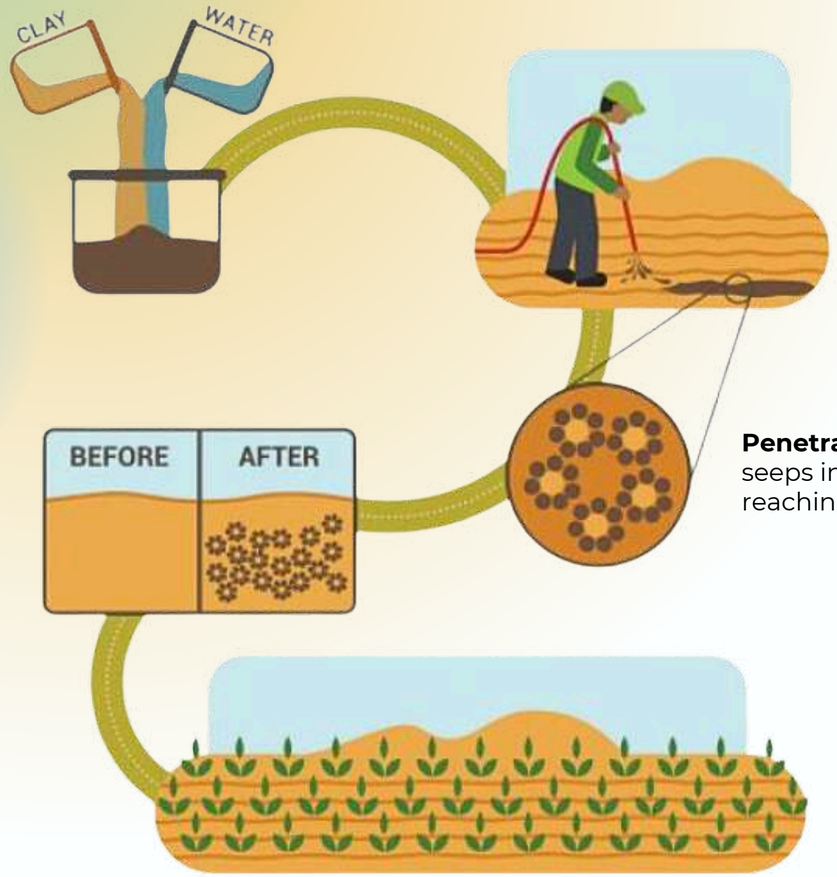
GROW

Increases crop yields by up to 62% & combats desertification

How Does It Work?

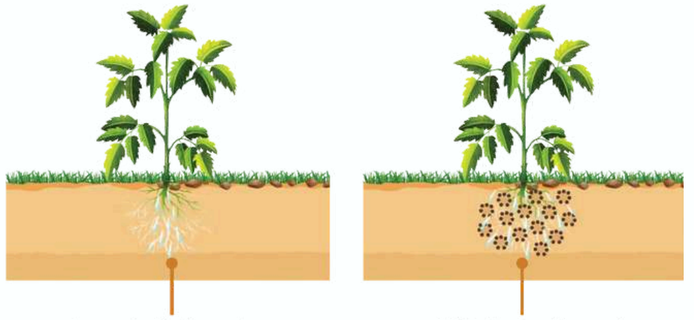
Mixing: LNC is prepared by mixing water with naturally occurring clay particles

Application: The liquid LNC is applied to the target area using conventional irrigation or spraying methods.



Transformation: Clay particles bind to sand grains, creating a sponge-like structure that retains water and nutrients.

Penetration: LNC seeps into the soil, reaching the root zone.



Water and nutrients drain away from the plant roots in sandy soil.

LNC binds to sand particles, creating a sponge-like structure that retains water and nutrients at root level.

→

Results: *Within 7 hours, the soil is transformed, ready to support healthy plant growth with reduced water requirements.*

Why LNC is a Game-Changer

Water Savings
Reduce water usage by up to 50%, drastically cutting water costs and conserving this precious resource.

Yields & Energy
Reduce energy consumption by 15-25% by optimizing pumping requirements while increasing yeild by upto 62%.

Fertilizer
Save 15-20% on fertilizer costs while maximizing nutrient efficiency.

Maintenance
Extend equipment lifespan and reduce maintenance costs by 10-20%, saving you time and money.

Sustainability Impact
Achieve 15-30% carbon footprint reduction through improved resource efficiency and soil health.

Long-Term Soil Health
One application lasts up to 5 years, enhancing soil fertility and resilience while reducing future construction and operational expenses by 15-20%.

Savings potential varies by individual circumstances. Contact us for a personalized analysis.

LNC's Unique Advantages

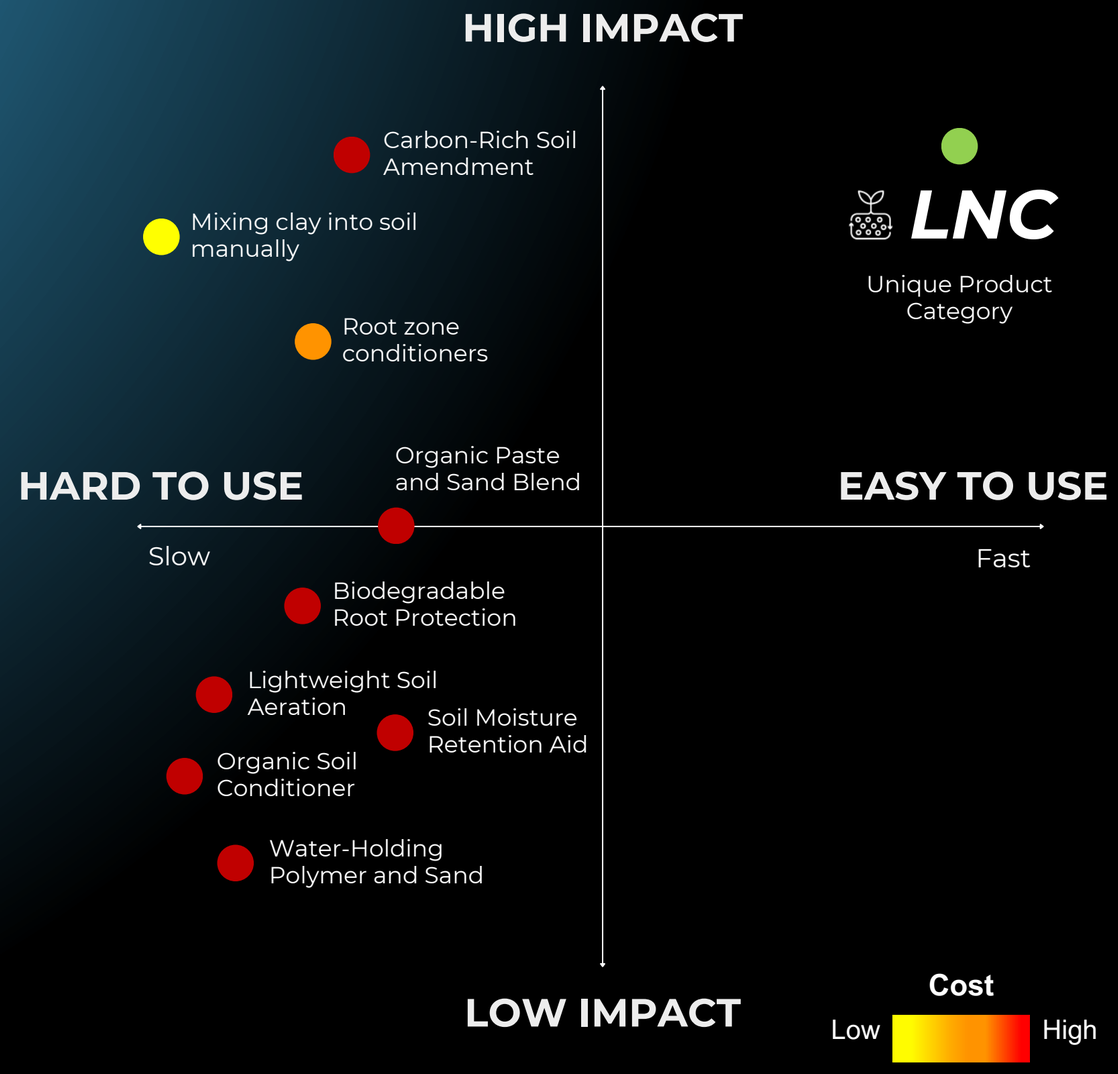
Water Savings
LNC saves up to 50% water compared to traditional irrigation.

Fast Results
LNC improves soil within hours, while traditional treatments take months to years for noticeable results

Non-Intrusive Application
LNC requires minimal intervention, easily applied using existing irrigation systems.

Long-Term Impact
One LNC application lasts for up to 5 years, reducing the need for frequent reapplications.

Cost-Effective
LNC requires just 1/100th of the raw materials needed by traditional clay treatments, reducing long-term costs.



Global Support for LNC Technology

*Liquid Natural Clay (LNC) is **recognized by global organizations** for its sustainability and innovation. Institutions like the Bill & Melinda Gates Foundation, World Economic Forum, and European Union support **its potential to tackle environmental challenges**. Collaborations with research centers, such as the University of Arizona and ICBA, validate its impact on agriculture, water conservation, and desert greening. Government bodies and sustainability leaders, including the Ministry of Climate Change & Environment and Masdar City, advocate for LNC as part of a greener future.*

SUCCESS STORIES

MASDAR CITY x Soyl

Client: **Masdar City, Abu Dhabi**
Location: **Pump Track Park, Abu Dhabi**
Date: **May 15, 2024**

About the Project

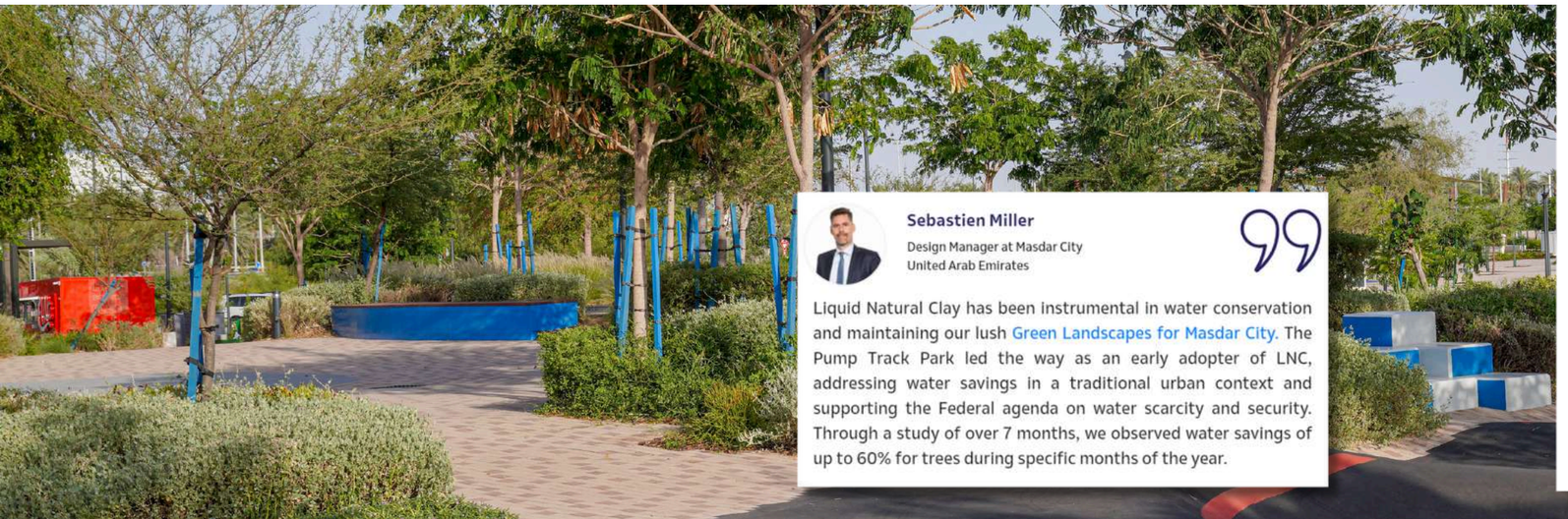
Masdar City launched the region's largest pump track, a 7,500 square meter facility for bicycles, scooters, skateboards, rollerblades, and wheelchairs. It includes three tracks totaling over 500 meters, catering to all skill levels and people of determination.

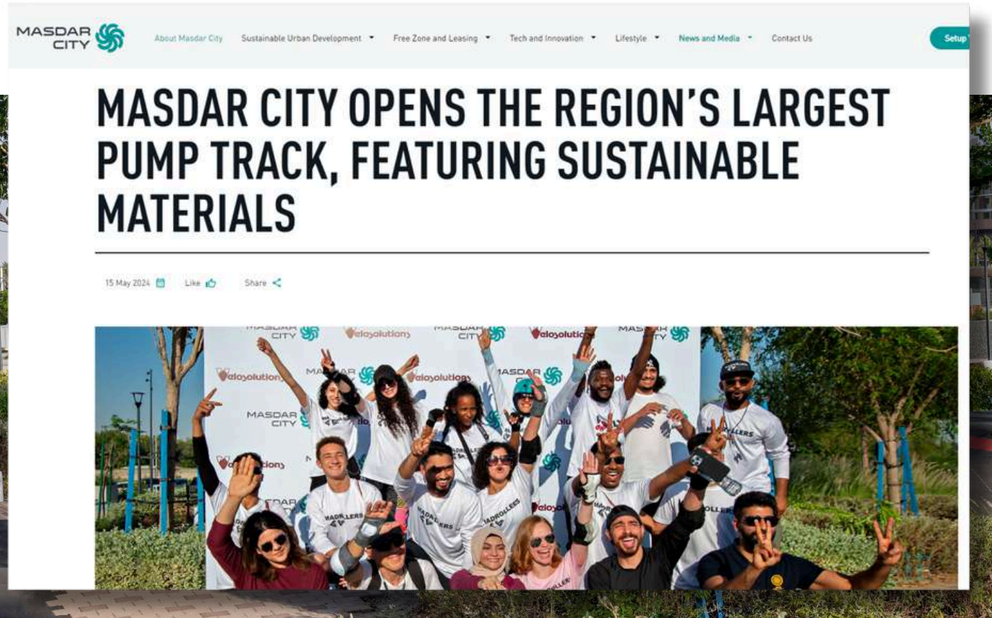
Project Scope

Masdar City has specified Nano Clay in all of their new and existing projects as a soil amendment to conserve water for all plants "Allow for "Nano Clay" or approved equal soil amendment". This aligns with the water-wise approach of the Velosolutions pump track, which utilized recycled materials and LNC from Mawarid Desert Control.

THE RESULTS

LNC was used in constructing the region's largest pump track. ***An 7-month monitoring study with live soil moisture tracking showed an overall water savings average of 60%.*** *This project, highlighted by Masdar on several occasions, demonstrates LNC's effectiveness in large-scale applications and its significant water conservation potential.*





Success Stories of LNC Implementation

Client: **Khalifa Park**
Location: **Abu Dhabi, U.A.E**

This project is a large public park located in Abu Dhabi, United Arab Emirates. Lawn area is the type of plant that was planted, with a sensor monitor installed. The application method used was manual and the ***reduction of water by 52%*** *while* ***increasing soil moisture content.***

Client: **Balinese Garden**
Location: **Dubai, U.A.E**

This project is Dubai's first high-end, eco-conscious residential development. Ground cover, shrubs, lawns, and trees were planted using a manual spray method. The treatment area is approximately ***10,000m² for lawns, shrubs, and ground cover, with 160 trees*** *at each site.*

Client: **U.S. Agriculture Validation Study**
Location: **Yuma, Arizona, U.S.A**

The LNC treated plot showed reduced mortality, improved water circulation, and better hydration. ***Watering schedules were cut by 50%*** *and* ***fertilizer use by 40%****. LNC was effective in droughts, increasing watermelon rind thickness by* ***13%*** *and sugar content by* ***7.5%.*** *It also reduced transplantation shock in bell peppers, promoting healthy growth.*

Global Impact & Local Manufacturing

UAE-manufactured

LNC is locally manufactured by Soyl in the UAE with global implications, leading efforts to combat desertification and support water conservation globally

Local Commitment

The group’s high ICV scores highlight LNC’s local value to UAE’s sustainability goals.

Global Reach

LNC is already transforming landscapes from the UAE to the U.S., proving its adaptability to different climates and industries.

Our Clients

We've partnered with many organizations to solve their agricultural and landscaping challenges.

بلدية مدينة أبوظبي
ABU DHABI CITY MUNICIPALITY

NEOM نيوم

المسار الرياضي
Sports Boulevard

MASDAR CITY

IHC
الشركة العالمية القابضة

EMAAR

ماجد الفطيم
MAJID AL FUTTAIM

إمكان
IMKAN

ARADA

سلال
silal

التنمية
TANMIAH

نزرع للغد
ICBA
AGRICULTURE FOR TOMORROW

Wide-ranging Uses

LNC is a versatile and efficient solution that can be adapted to various industries and applications, paving the way for a more sustainable and greener future.

Agriculture & Forestry

Crop Production: Improve yields and water efficiency in arid climates by applying LNC via existing irrigation systems, enhancing soil's water and nutrient retention capacity.

Soil Reclamation: Revitalize degraded land for sustainable farming by restoring soil structure and fertility through LNC treatment.

Reforestation: Enhance seedling establishment and survival rates in challenging environments by improving soil moisture and nutrient availability with LNC.

Drought Mitigation: Build resilience against water scarcity by creating a water-holding capacity in the soil with LNC, reducing irrigation needs.

Landscape & Communities

Urban Greening: Create vibrant green spaces in challenging environments by enabling plant growth in arid soils and reducing water requirements with LNC.

Dust Control: Reduce airborne dust and improve air quality by binding soil particles with LNC, creating a protective layer against wind erosion.

Water Conservation: Lower irrigation needs and save precious resources through LNC's enhanced water retention capabilities in landscaping and green spaces.

Sustainable Landscaping: Enhance aesthetic appeal with eco-friendly practices by utilizing LNC to establish and maintain healthy vegetation with minimal water usage.

Sports & Resorts

Golf Courses: Maintain lush fairways and greens with less water by improving soil's water retention capacity and reducing irrigation frequency with LNC.

Sports Fields: Create durable and playable surfaces year-round by enhancing soil stability and moisture retention with LNC, reducing maintenance needs.

Resort Landscaping: Enhance guest experience with thriving greenery by enabling successful plant growth in arid climates with LNC, creating a luxurious ambiance.

Water Management: Optimize water use for cost savings and sustainability across sports and resort facilities through LNC's water-saving properties.

www.soyl.ag

About Us

IHC International Holding Company

↓

Alpha Dhabi Holding
ألفا ظبي القابضة

↓

موارد القابضة للإستثمار
MAWARID HOLDING INVESTMENT

↓

Soyl

At Soyl, we don't just work with soil—we revolutionize it. Powered by Liquid Natural Clay (LNC) technology, we turn dry, barren land into fertile grounds ready for growth. Cut water usage in half, boost yields, and create a sustainable ecosystem that lasts.

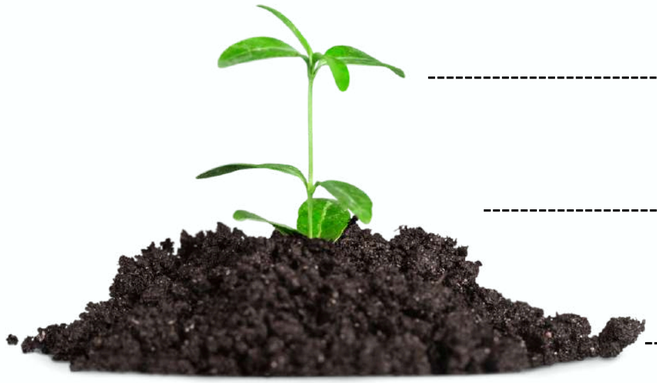
Making Earth Green Again

Soyl

Powered by **Desert Control**

A **MAWARID HOLDING** COMPANY

What we believe in



Healthy Growth

LNC

Healthy Soil

Healthy Soil: At the foundation of Soyl's innovation is Liquid Natural Clay (LNC), which transforms arid soils into fertile ground.

LNC: This technology ensures the soil retains water and nutrients, creating optimal conditions for plant growth.

Healthy Growth: The result is vibrant, sustainable plant life, enhancing agriculture and landscapes while conserving resources.

Healthy, thriving soil *is the foundation of a* ***sustainable future.***

Soyl

SUSTAINABILITY

Regenerative soil practices ensure the long-term health and abundance of our planet.

YIELD

Bountiful harvests are the result of nurtured soil using less water providing food security.

OPTIMIZATION

Optimizing soil health unlocks the full potential of the land, maximizing yields & resource efficiency.

LEGACY

Healthy soil is a gift to future generations, ensuring a thriving planet for years to come.

Certifications


شهادة تسجيل في ضريبة القيمة المضافة
VAT Registration Certificate
Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is VAT registered on 17/06/2020
Taxpayer Name:
VAT Registration Number: 310115837500003
Effective Registration Date: 2020/07/01
Taxpayer Address:
هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع
- الهيئة العامة للزكاة والدخل -


Taxpayer Name:
CR / License / Contract No.: 1010592260
Tax Period: Quarterly
First Filing due date: 2020/10/28
هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع
- الهيئة العامة للزكاة والدخل -


IN-COUNTRY VALUE CERTIFICATE
Certificate ID: 126143
Issue Date: 08.06.2023
Valid Until: 24.09.2024
BARARI NATURAL RESOURCES L.L.C.
56.80%
Company General Information
License No.: CN-1138024
Company Type: Non SME in UAE
Financial Year End Date: 31.12.2022
Company based in: Within UAE
Company Business: SERVICE PROVIDER
For Cases of Re-Certification
Re-Certification (*) No.:
Reason for this Re-Certification
Signed By
On behalf of Supplier
Name:
Kashif Sharmi
Designation:
Group Chief Executive Officer
Verified as per ICV Agreed Upon Procedures (AUP)
On behalf of Certification Body
Name:
Paola Schiavon
Designation:
Partner
Company:
Deloitte & Touche (M.E.)
Electronically signed by Paola Schiavon
Certificate Issued Based on ICV Versions 3.0


INDUSTRIAL LICENSE
رخصة صناعية
License No
Emerging Industrial Establishment
Production
Sole Proprietorship L.L.C.
Abu Dhabi - Musaffah - ICAD I - 24JS-WH-B2-26
Owner(s) Partner(s)
Activity
Straight or Complex Fertilizers Manufacturing
Product
Liquid Natural Clay


UNITED ARAB EMIRATES MINISTRY OF CLIMATE CHANGE & ENVIRONMENT
ترخيص مزاولة نشاط زراعي
Practice Agricultural Activity License
License Number AGL-2023-19436
Verification Code 699999
Release Type - Renewal
04/04/2023
Date of practicing the activity
26/06/2024
02/04/2025
Commercial / industrial / professional license information
Emirate Abu Dhabi
Issued Authority Department of Planning & Economy, Abu Dhabi
Establishment name Desert Control Liquid Natural Clay Manufacturing - Sole Proprietorship L.L.C
Address 21 Al Jazia-9 St - Abu Dhabi Industrial City - ICAD I - Abu Dhabi - United Arab Emirates
Licensed activities
1 Manufacture of fertilizers and agricultural items - Manufacture of organic fertilizers and agricultural items
Professions practice information
21/03/2025 DXB-AD-03-2240960
Take into account compliance with the laws and regulations in force in the United Arab Emirates
This document is electronically approved and does not require signature or stamp


UNITED ARAB EMIRATES MINISTRY OF INDUSTRY & ADVANCED TECHNOLOGY
شهادة مطابقة
CERTIFICATE OF CONFORMITY
Certificate Number: 23-03-65853/E23-03-067492/NB0002
Registration Date: 16/03/2023
Valid Until: 15/03/2024
Issued To: Desert Control Liquid Natural Clay Manufacturing - Sole Proprietorship L.L.C. P.O. Box 114043, Musaffah ICAD I - 24JS-WH-B2-26 Abu Dhabi, United Arab Emirates
Sector: Food
Product Category: Organic
Product Sub-Category: Organic fertilizers/inputs
Please check Schedule of certification for all product details
SGS
جهة معينة من قبل وزارة الصناعة والتكنولوجيا المتقدمة
Notified body by Ministry of Industry and Advanced Technology
Products are registered under the Emirates Conformity Assessment Scheme (ECAS) based on compliance to the Approved Standards
This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification


UNITED ARAB EMIRATES MINISTRY OF INDUSTRY & ADVANCED TECHNOLOGY
بيان التسجيل
SCHEDULE OF CERTIFICATION
Ministry of Industry and Advanced Technology
Company Name: Desert Control Liquid Natural Clay Manufacturing - Sole Proprietorship L.L.C
Product Category: Organic
Certificate No.: 23-03-65853/E23-03-067492/NB0002
Registration Date: 16/03/2023
Valid Until: 15/03/2024
Approved organic area: NA
Sr.No | Brand Name | Model Number | Product Details | Dimension/Size | Reports | Applicable Standards | Country Of Origin
1 | Desert Control | NA | Liquid Natural Clay-LNC | NA | R22-ZU08-0816-001 2022-BHSJ-002835 | UAE. S GSO 2374:2014, UAE. S GSO 550:1994 | United Arab Emirates
SGS
جهة معينة من قبل وزارة الصناعة والتكنولوجيا المتقدمة
Notified body by Ministry of Industry and Advanced Technology
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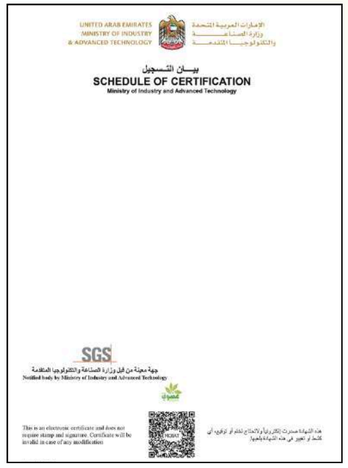
Page 1 of 2


UNITED ARAB EMIRATES MINISTRY OF INDUSTRY & ADVANCED TECHNOLOGY
بيان التسجيل
SCHEDULE OF CERTIFICATION
Ministry of Industry and Advanced Technology
SGS
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ICBA
September 18, 2019
Key findings for the Liquid Nano Clay (LNC) product being tested in turf and Bermuda grass pilot field trials in a desert environment
It is very important to identify soil amendments that can enhance the soil properties in hot and dry conditions. Liquid Nano Clay (LNC) is one of the most promising products to improve the soil productivity and plant growth. Desert Control Company in collaboration with International Center for Biosaline Agriculture (ICBA) evaluated for the effectiveness of LNC product on turf and bermuda grasses used for landscape purposes compared to the "business as usual" cultivation model of golf course companies. The experiment was conducted at ICBA's research stations, testing the water and nutrients dynamics and biomass production in desert conditions after LNC treatments application for one year. The key findings after evaluation of the 84 Liquid Nano Clay (LNC) treatments, annotated plots included, on turf and bermuda grass plots were the following:
It is vital for agriculture implemented in desert areas to adopt management practices, methodologies and apply products that contribute in fresh water savings and retain the soil moisture and nutrients in sandying beds that sell reference crops growth and continuous development. LNC is such a product that its efficiency is evaluated for the first time in field trials following a systematic research study in desert climatic conditions.
Reza Tavakkoli
Director of Programs
ICBA
P.O. Box 14660, Dubai, United Arab Emirates
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ebsd@biosaline.org.ae
www.biosaline.org


OMRI Listed®
The following product is OMRI Listed. It may be used in certified organic production or food processing and handling according to the USDA National Organic Program regulations.
Product
Desert Control LNC
Company
Desert Control
Marty Stevens
1210 B 21st Street
YUMA Arizona 85365 United States
Status
Allowed
Category
NOP: Bentonite
Issue date
13-Jun-2023
Product number
dcd-16739
Class
Crop Fertilizers and Soil Amendments
Expiration date
1-Sep-2024
Restrictions
Not applicable.
Executive Director/CEO
OMRI LISTED
Organic Materials Review Institute
P.O. Box 11558, Eugene, OR 97440-3758, USA
541.343.7600 · info@omri.org · OMRI.org


UNITED ARAB EMIRATES MINISTRY OF CLIMATE CHANGE & ENVIRONMENT
Registration certificate of fertilizers and agricultural conditioners
This is to certify that the product is registered at the Ministry of Climate Change & Environment according to the following information
Certificate No. DXB-APH-M-2318838
Verification Code 2255-0254
Issue date 13-03-2023
Expiry date 12-07-2028
Operation Name Desert Control Liquid Natural Clay Manufacturing - Sole Proprietorship L.L.C
Operation Address 21 Al Jazia-9 St - Abu Dhabi Industrial City - ICAD I - Abu Dhabi - United Arab Emirates
Commercial Name Liquid Natural Clay
Product Category Certified Organic Fertilizers
Producing Company Desert Control Liquid Natural Clay Manufacturing - Sole Proprietorship L.L.C.
Country of Origin


UNITED ARAB EMIRATES MINISTRY OF INDUSTRY & ADVANCED TECHNOLOGY
شهادة مطابقة
CERTIFICATE OF CONFORMITY
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Sector: Food
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SGS
جهة معينة من قبل وزارة الصناعة والتكنولوجيا المتقدمة
Notified body by Ministry of Industry and Advanced Technology
Products are registered under the Emirates Conformity Assessment Scheme (ECAS) based on compliance to the Approved Standards
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Reach out to us

Soyl

Powered by **Desert Control**

www.soyl.ag

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Mobile: +971553699717

موارد القابضة للإستثمار
MAWARID HOLDING INVESTMENT

A **Mawarid Holding** Company