

MINE RECLAMATION Case Study

PROJECT DETAILS

Project Name	Sacaton Mine
Location	Casa Grande, Arizona
Date of Installation	December 2019
Salesperson	Tom Bowman
Engineering Firm	Tetra Tech
Contractor	SunWest Golf & Reclamation

THE CHALLENGE

The engineering firm needed to find a solution to reclaim and revegetate the Sacaton Mine tailings and cap area. The tailings from this old copper mine had extremely depleted soil which is not equipped to grow and support vegetation. The mining process left this soil with very little soil life and organic matter. Poor soil, little to no microbial life, and limited water all lead to the challenge of re-establishing vegetation.

THE SOLUTION

Biosol Forte provides all the stable organic substances and nutrients needed to reclaim poor soils. The nitrogen (7%), phosphorus (2%) and potassium (1%) in Biosol Forte fertilize, nourish and heal poor soil. Because of its composition of slow-release, stable organic nutrients, Biosol provides long-term nourishment. Biosol's nutrients become available for plant uptake when the soil temperatures, microbial activity and water are right for growing conditions. This is the result of supplying an organically bound and stable nutrient source to soils, developing and encouraging nutrient cycling in soils for long-term soil health and plant growth. Biosol ensures plants will thrive and grow stronger over time.

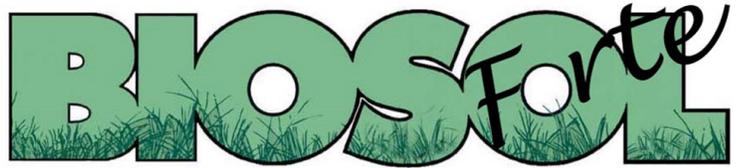
The contractor hydroseeded the 600-acre project area to apply the products. Biosol Forte organic fertilizer was applied at 500 lbs/acre along with a native seed mix designed to grow in Arizona's arid climate.



After just 3 months some plants are starting to grow.

PRODUCTS USED

- Biosol Forte 7-2-1
Natural Organic Fertilizer
- Native Seed Mix



THE RESULTS

Seeding was finished at the Sacaton Mine in December 2019. The area received two rain events shortly after seeding; however, the summer of 2020 was one of the hottest and driest summers in the history of Phoenix, Arizona. Despite the extreme heat and dryness, the Biosol Forte worked to replenish stable organic matter and nutrients in the soil to establish and support native vegetation growth. Over three years after seeding, the vegetation looks great and continues to grow stronger every year.

December 2022



April 2023



REVEGETATION & SOIL HEALTH SPECIALISTS



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