Insights Beyond the Obvious
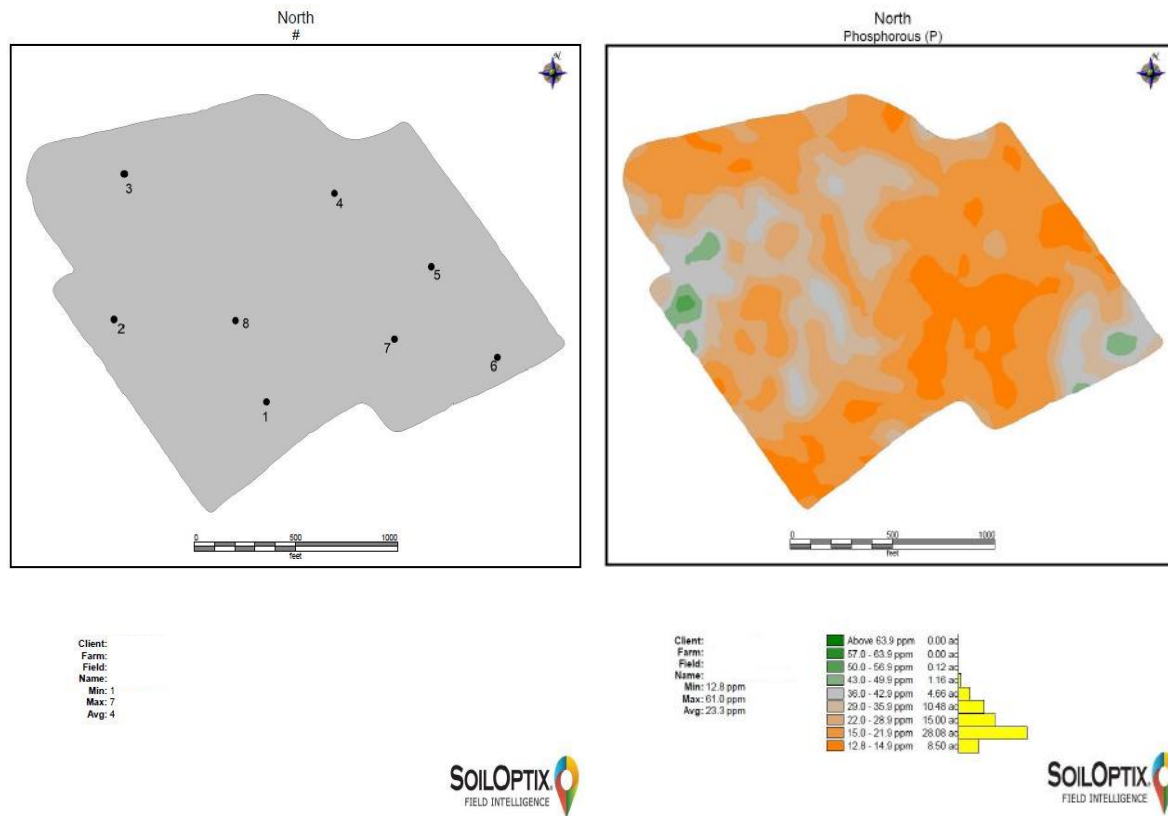
Hidden "Easter Eggs"

Phosphorus Pockets

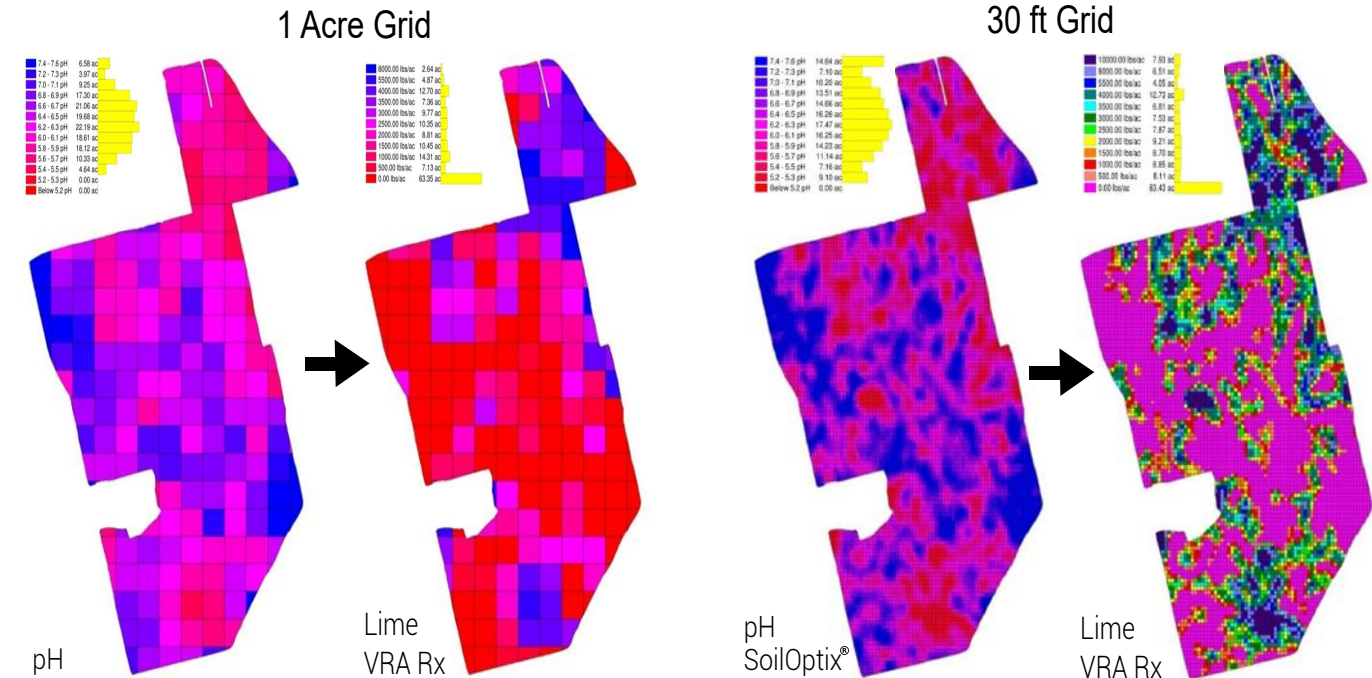SoilOptix® identified 2 higher pockets of phosphorus compared to the rest of the field.

Northwest pocket was caused by manure pile runoff.

Southeast pocket was remnants of a small compost pile that was removed 1 year prior to surveying.

SoilOptix® Applications

VRA Lime - 150 Acres

1 Acre Grid

pH → Lime VRA Rx

Broad areas of concern addressed by 1 acre grid.

Total lime: 104.7 tonnes
63.35ac at 0 ton/ac

30 ft Grid

pH SoilOptix® → Lime VRA Rx

SoilOptix® further defined areas of concern, applying higher rates on land needing more lime.

Total lime: 142.9 tonnes
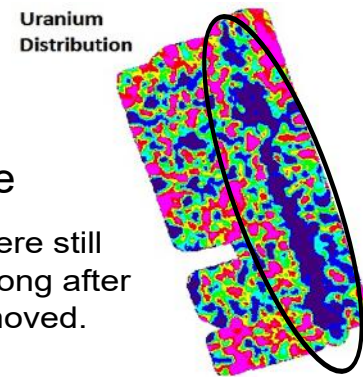**63.43ac at 0 ton/ac**.

Validation of Data

Half acre grid sampling overlayed on organic matter results. Comparison indicated accuracy of model.

Organic Matter
- 2.11
- 2.64
- 3.17
- 3.7
- 4.22
- 4.75
- 5.28

Natural Features

Uranium Distribution

Old Railway Line

Uranium deposits were still detected in the soil long after the railroad was removed.
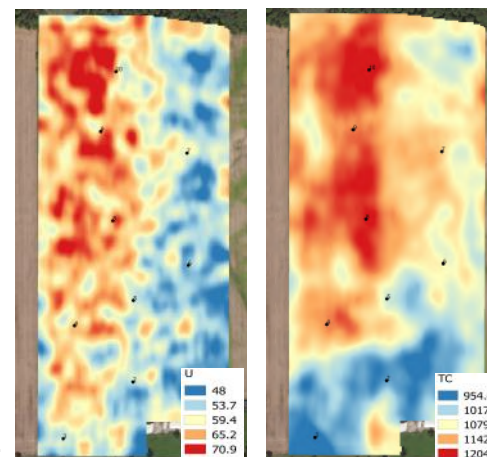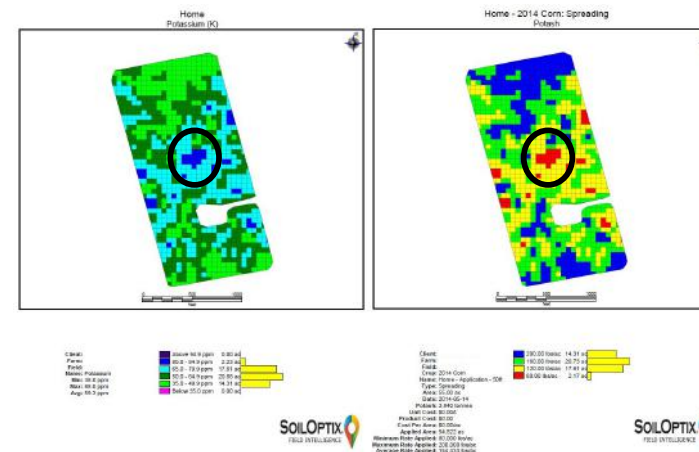

Field History

West side- continuous tillage

East side- pasture.

Now worked as one field but managed independently.

VRA Potash 55 Acres

SoilOptix® indicated a spike in Potassium.

Upon validation, high K reflected a broken tile in the field.

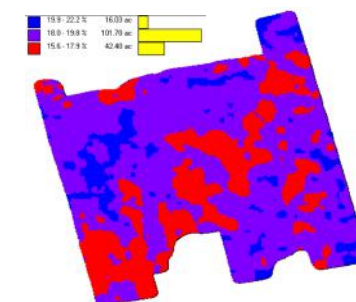Resulting VRA prescription reduced fertilizer input and saved the grower on input costs.

VRA Seeding Density Corn 150 Acres
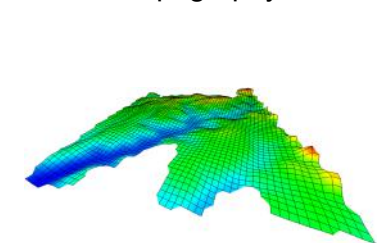
20 ft Grid   3 Zones   4% Yield Gain

Satellite Imagery

Topography

SoilOptix® Plant Available Water

Rx Corn