



Ag Testing - Consulting

Account No. : 90010

Biological Soil Analysis Report

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Invoice No. : 1238420
Date Received : 12/28/2016
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Lab No. : 614292

Results For : HANEY
Sample ID 1 : ONSITE
Sample ID 2 : TEST 1

Haney - Soil Health Analysis

| | | | |
|--|------|-----------------------------------|----------------------|
| 1:1 Soil pH | 8.4 | ICAP Sulfur, ppm S | 33.9 |
| 1:1 Soluble Salts, mmho/cm | 0.2 | ICAP Calcium, ppm Ca | 3502.0 |
| Excess Lime Rating | HIGH | ICAP Magnesium, ppm Mg | 674.5 |
| Organic Matter, %LOI | 3.3 | ICAP Sodium, ppm Na | 41.5 |
| | | ICAP Aluminum, ppm Al | 103.3 |
| Soil Respiration CO ₂ -C, ppm C | 39.8 | Calculations | |
| Water Extract | | Microbially Active Carbon (%MAC) | 0.2 |
| Total Nitrogen, ppm N | 29.5 | Organic C : Organic N | 8.6 |
| Organic Nitrogen, ppm N | 22.4 | Organic N : Inorganic N | 3.0 |
| Total Organic Carbon, ppm C | 192 | Organic Nitrogen Release, ppm N | 18.6 |
| H3A Extract | | Organic Nitrogen Reserve, ppm N | 3.8 |
| Nitrate, ppm NO ₃ -N | 5.5 | Organic Phosphorus Release, ppm P | 2.5 |
| Ammonium, ppm NH ₄ -N | 1.9 | Organic Phosphorus Reserve, ppm P | 1.5 |
| Inorganic Nitrogen, ppm N | 7.4 | Soil Health | |
| Total (ICAP) Phosphorus, ppm P | 8 | Soil Health Calculation | 10.1 |
| Inorganic (FIA) Phosphorus, ppm P | 3.7 | Cover Crop Suggestion | 40% Legume 60% Grass |
| Organic Phosphorus, ppm P | 4.0 | | |
| ICAP Potassium, ppm K | 105 | | |
| ICAP Zinc, ppm Zn | 0.2 | | |
| ICAP Iron, ppm Fe | 86.8 | | |
| ICAP Manganese, ppm Mn | 5.9 | | |
| ICAP Copper, ppm Cu | 0.3 | | |

Reviewed By :

7/27/2017

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Haney - Soil Health Analysis Contd.

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Nutrient Quantity Available for Next Crop

| | |
|--|-------|
| Nitrogen, lbs N/A | 62.3 |
| Phosphorus, lbs P ₂ O ₅ /A | 14.3 |
| Potassium, lbs K ₂ O/A | 126.4 |
| Nutrient Value, \$/A | 108.6 |

Nitrogen Savings by using the Haney Test

| | |
|----------------------------------|-------|
| Traditional evaluation, lbs N/A | 13.3 |
| Haney Test N evaluation, lbs N/A | 62.3 |
| Nitrogen Difference, lbs N/A | 49.0 |
| N savings, \$/A | 31.38 |

Recommendations

In Actual Pounds of Plant Nutrients per Acre

N Credit : Alfalfa (Good Stand) - 100

Sub-Soils :

| Crop | (Ward) Alfalfa T/A | Crop | (Ward) Alfalfa T/A | Crop | (Ward) Grass + Alfalfa T/A |
|--|----------------------------|--|----------------------------|--|----------------------------|
| Yield | 3 | Yield | 5 | Yield | 3 |
| Nitrogen N | 0 | Nitrogen N | 0 | Nitrogen N | 0 |
| Phosphorus P ₂ O ₅ | 65 | Phosphorus P ₂ O ₅ | 75 | Phosphorus P ₂ O ₅ | 45 |
| Potassium K ₂ O | 0 | Potassium K ₂ O | 0 | Potassium K ₂ O | 0 |
| Sulfur S | 0 | Sulfur S | 0 | Sulfur S | 0 |
| Zinc Zn | 0 | Zinc Zn | 0 | Zinc Zn | 0 |
| Magnesium Mg | 0 | Magnesium Mg | 0 | Magnesium Mg | 0 |
| Iron Fe | 0 | Iron Fe | 0 | Iron Fe | 0 |
| Manganese Mn | 0 | Manganese Mn | 0 | Manganese Mn | 0 |
| Copper Cu | 0 | Copper Cu | 0 | Copper Cu | 0 |
| Crop | (Ward) Cover Crop Mix, T/A | Crop | (Ward) Cover Crop Mix, T/A | Crop | (Ward) Grass + Alfalfa T/A |
| Yield | 3 | Yield | 5 | Yield | 5 |
| Nitrogen N | 0 | Nitrogen N | 0 | Nitrogen N | 0 |
| Phosphorus P ₂ O ₅ | 50 | Phosphorus P ₂ O ₅ | 60 | Phosphorus P ₂ O ₅ | 55 |
| Potassium K ₂ O | 0 | Potassium K ₂ O | 0 | Potassium K ₂ O | 0 |
| Sulfur S | 0 | Sulfur S | 0 | Sulfur S | 0 |
| Zinc Zn | 2 | Zinc Zn | 2 | Zinc Zn | 0 |
| Magnesium Mg | 0 | Magnesium Mg | 0 | Magnesium Mg | 0 |
| Iron Fe | 0 | Iron Fe | 0 | Iron Fe | 0 |
| Manganese Mn | 0 | Manganese Mn | 0 | Manganese Mn | 0 |
| Copper Cu | 0 | Copper Cu | 0 | Copper Cu | 0 |