



Ag Testing - Consulting

Account No. : 24143

Biological Soil Analysis Report

EAST POTTAWATTAMIE SWCD
16 MAIN ST
OAKLAND IA 51560

Invoice No. : 1185555
Date Received : 07/16/2015
Date Reported : 07/20/2015
Lab No. : 3863

Results For : EAST POTTAWATTAMIE SWCD

Sample ID 1 :
Sample ID 2 : EP 1

Haney - Soil Health Analysis

1:1 Soil pH	5.1	ICAP Aluminum, ppm Al	283
1:1 Soluble Salts, mmho/cm	0.23	ICAP Iron, ppm Fe	163
Excess Lime Rating	1		
Organic Matter, %LOI	3.4	Calculations	
WDRF Buffer pH	6.4	Organic C:Organic N	10.4
Solvita CO2 Burst		Nitrogen mineralization, ppm N	8.8
CO2-C, ppm C	47.8	Organic Nitrogen Release, ppm N	15.2
		Organic Nitrogen Reserve, ppm N	2.5
Water Extract		Phosphorus mineralization, ppm P	6.8
Total Nitrogen, ppm N	31.1	Organic Phosphorus Reserve, ppm P	3.2
Organic Nitrogen, ppm N	17.7	Phosphorus Saturation Al/ Fe, %	4.5
Total Organic Carbon, ppm C	184	Phosphorus Saturation Ca, %	5.1
H3A Extract		Soil Health	
Nitrate, ppm NO3-N	10.8	Soil Health Calculation	8.22
Ammonium, ppm NH4-N	2.8	Cover Crop Suggestion	60% Legume 40% Grass
Inorganic Nitrogen, ppm N	13.7		
Inorganic (FIA) Phosphorus, ppm P	10.2		
Total (ICAP) Phosphorus, ppm P	20.2		
Organic Phosphorus, ppm P	10.0		
ICAP Potassium, ppm K	56		
ICAP Calcium, ppm Ca	399		



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Haney - Soil Health Analysis Contd.

Lab No. : 3863

Nutrient Quantity Available for Next Crop

Nitrogen Savings by using the Haney Test

Nitrogen, lbs N/A	57.8	Traditional evaluation, lbs N/A	21.7
Phosphorus, lbs P2O5/A	39.1	Haney Test N evaluation, lbs N/A	57.8
Potassium, lbs K2O/A	66.9	Nitrogen Difference, lbs N/A	36.1
Nutrient Value, \$/A	85.66	N savings, \$/A	23.10

Fertilizer Recommendations, lbs/A

<u>Crop</u>	<u>Yield Goal</u>	<u>Nitrogen N</u>	<u>Phosphorus P2O5</u>	<u>Potassium K2O</u>
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16 MAIN ST
OAKLAND IA 51560

Invoice No. : 1185555
Date Received : 07/16/2015
Date Reported : 07/20/2015
Lab No. : 3864

Results For : EAST POTTAWATTAMIE SWCD

Sample ID 1 :

Sample ID 2 : EP 2

Haney - Soil Health Analysis

1:1 Soil pH	6.5	ICAP Aluminum, ppm Al	262
1:1 Soluble Salts, mmho/cm	0.28	ICAP Iron, ppm Fe	171
Excess Lime Rating	1		
Organic Matter, %LOI	3.0	Calculations	
WDRF Buffer pH	6.8	Organic C:Organic N	9.6
Solvita CO2 Burst		Nitrogen mineralization, ppm N	8.8
CO2-C, ppm C	43.5	Organic Nitrogen Release, ppm N	14.6
		Organic Nitrogen Reserve, ppm N	1.6
Water Extract		Phosphorus mineralization, ppm P	6.8
Total Nitrogen, ppm N	24.7	Organic Phosphorus Reserve, ppm P	6.2
Organic Nitrogen, ppm N	16.2	Phosphorus Saturation Al/ Fe, %	13.1
Total Organic Carbon, ppm C	157	Phosphorus Saturation Ca, %	10.4
H3A Extract		Soil Health	
Nitrate, ppm NO3-N	7.0	Soil Health Calculation	7.70
Ammonium, ppm NH4-N	1.6	Cover Crop Suggestion	60% Legume 40% Grass
Inorganic Nitrogen, ppm N	8.6		
Inorganic (FIA) Phosphorus, ppm P	43.8		
Total (ICAP) Phosphorus, ppm P	56.8		
Organic Phosphorus, ppm P	13.1		
ICAP Potassium, ppm K	72		
ICAP Calcium, ppm Ca	547		

Reviewed By : Lance Gunderson

7/20/2015

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Haney - Soil Health Analysis Contd.

Lab No. : 3864

Nutrient Quantity Available for Next Crop

Nitrogen Savings by using the Haney Test

Nitrogen, lbs N/A	46.4	Traditional evaluation, lbs N/A	13.9
Phosphorus, lbs P2O5/A	116.4	Haney Test N evaluation, lbs N/A	46.4
Potassium, lbs K2O/A	86.7	Nitrogen Difference, lbs N/A	32.5
Nutrient Value, \$/A	118.40	N savings, \$/A	20.77

Fertilizer Recommendations, lbs/A

<u>Crop</u>	<u>Yield Goal</u>	<u>Nitrogen N</u>	<u>Phosphorus P2O5</u>	<u>Potassium K2O</u>
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16 MAIN ST
OAKLAND IA 51560

Invoice No. : 1185555
Date Received : 07/16/2015
Date Reported : 07/20/2015
Lab No. : 3865

Results For : EAST POTTAWATTAMIE SWCD

Sample ID 1 :
Sample ID 2 : EP 3

Haney - Soil Health Analysis

1:1 Soil pH	5.6	ICAP Aluminum, ppm Al	361
1:1 Soluble Salts, mmho/cm	0.26	ICAP Iron, ppm Fe	218
Excess Lime Rating	1		
Organic Matter, %LOI	3.8	Calculations	
WDRF Buffer pH	6.6	Organic C:Organic N	9.3
Solvita CO2 Burst		Nitrogen mineralization, ppm N	22.7
CO2-C, ppm C	108.0	Organic Nitrogen Release, ppm N	24.7
		Organic Nitrogen Reserve, ppm N	0.0
Water Extract		Phosphorus mineralization, ppm P	17.7
Total Nitrogen, ppm N	39.4	Organic Phosphorus Reserve, ppm P	6.3
Organic Nitrogen, ppm N	24.7	Phosphorus Saturation Al/ Fe, %	17.3
Total Organic Carbon, ppm C	230	Phosphorus Saturation Ca, %	18.2
H3A Extract		Soil Health	
Nitrate, ppm NO3-N	12.2	Soil Health Calculation	16.38
Ammonium, ppm NH4-N	2.1	Cover Crop Suggestion	30% Legume 70% Grass
Inorganic Nitrogen, ppm N	14.3		
Inorganic (FIA) Phosphorus, ppm P	75.8		
Total (ICAP) Phosphorus, ppm P	99.8		
Organic Phosphorus, ppm P	24.1		
ICAP Potassium, ppm K	121		
ICAP Calcium, ppm Ca	549		



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Haney - Soil Health Analysis Contd.

Lab No. : 3865

Nutrient Quantity Available for Next Crop

Nitrogen Savings by using the Haney Test

Table with 4 columns: Nutrient, Quantity, Evaluation Type, and Value. Rows include Nitrogen, Phosphorus, Potassium, and Nutrient Value.

Fertilizer Recommendations, lbs/A

Table header for fertilizer recommendations with columns: Crop, Yield Goal, Nitrogen N, Phosphorus P2O5, and Potassium K2O.