



1602 Park West Dr. • PO Box 169 • Hastings, NE 68902  
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<b>Lab No.:</b> 88768		<b>SOIL ANALYSIS RESULTS</b>		<b>Date Reported:</b> 01/10/2022	
<b>Send To:</b> 18250	OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758			 Hans Burken Agronomist	
<b>Results For:</b> OWN RESOURCES <b>Sample Identification:</b> WELLHEAD <b>Sample Depth:</b> 0-48"		<b>Invoice No.:</b> 638601 <b>Date Received:</b> 12/23/2021 <b>Field ID</b> SCHEPLER FARMS 19-03			

<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	679	73	Cation Exchange Capacity, CEC meq/100g		5
Magnesium, Mg	96	17	Soil pH - 1:1		7.5
Potassium, K	158	9	Soil pH - Saturated Paste		7.4
Sodium, Na	13	1	Soluble Salts, mmho/cm		0.08
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		1

<b>Extractable (from saturated paste, based on 31% water saturation):</b>					
	<u>mg/L</u>	<u>meq/L</u>			
Calcium (Ca)	26	1.3			
Magnesium (Mg)	5	0.4			
Sodium (Na)	3	0.1			
Sulfur (S)	3	0.2			
Boron (B)	0.05				
Potassium (K)	19	0.5			
Chloride (Cl)	4	0.1			
Bicarbonate (HCO <sub>3</sub> )	130	2.1			
Carbonate (CO <sub>3</sub> )	<10	<0.3			

Sodium Adsorption Ratio (SAR)	0.14
Electrical Conductivity (ECe), mmho/cm	0.25
Cation:Anion	2.3 / 2.8

Calculated Gypsum Recommendation (from ESP and CEC)			
Soil Texture		Gypsum Rec. T/A	
COARSE	(sands, loamy sands, sandy loams)	0.0	To 0.0
MEDIUM	(loams, silt loams, clay loams)	0.0	To 0.0
FINE	(silty clay, clay loams, clays)	0.0	To 0.0

This soil is considered: NON-SALINE/NON-SODIC
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The reported analytical results apply only to the sample as it was supplied.

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SOIL PERMEABILITY HAZARD (based on ESP and SAR):					
Soil texture		Potential hazard			
-----		-----			
COARSE (sands, loamy sands, sandy loams)		LOW			
MEDIUM (loams, silt loams, clay loams)		LOW			
FINE (silty clay loams, clays)		LOW			
SOIL SALINITY HAZARD (based on extractable salts, ECe):					
Crop type		Potential hazard			
-----		-----			
SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.) . . . . .		LOW			
MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, brome grass, etc.) . . . . .		LOW			
SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.) . . . . .		LOW			
EXTRACTABLE BORON HAZARD (based on soil extractable boron, B):					
Crop type		Potential hazard			
-----		-----			
BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.) . . . . .		LOW			
MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.) . . . . .		LOW			
BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.) . . . . .		LOW			

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<b>Results For:</b> OWN RESOURCES <b>Sample Identification:</b> BACKGROUND <b>Sample Depth:</b> 0-12"		<b>Invoice No.:</b> 638601 <b>Date Received:</b> 12/23/2021 <b>Field ID</b> SCHEPLER FARMS 19-03			

<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	780	76	Cation Exchange Capacity, CEC meq/100g		5
Magnesium, Mg	93	15	Soil pH - 1:1		7.9
Potassium, K	155	8	Soil pH - Saturated Paste		7.7
Sodium, Na	16	1	Soluble Salts, mmho/cm		0.09
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		1

<b>Extractable (from saturated paste, based on 32% water saturation):</b>					
	<u>mg/L</u>	<u>meq/L</u>			
Calcium (Ca)	37	1.8			
Magnesium (Mg)	7	0.6			
Sodium (Na)	21	0.9			
Sulfur (S)	5	0.3			
Boron (B)	0.15				
Potassium (K)	15	0.4			
Chloride (Cl)	17	0.5			
Bicarbonate (HCO <sub>3</sub> )	150	2.5			
Carbonate (CO <sub>3</sub> )	<10	<0.3			

Sodium Adsorption Ratio (SAR)	0.83
Electrical Conductivity (ECe), mmho/cm	0.37
Cation:Anion	3.7 / 3.6

Calculated Gypsum Recommendation (from ESP and CEC)			
Soil Texture		Gypsum Rec. T/A	
COARSE	(sands, loamy sands, sandy loams)	0.0	To 0.0
MEDIUM	(loams, silt loams, clay loams)	0.0	To 0.0
FINE	(silty clay, clay loams, clays)	0.0	To 0.0

This soil is considered: NON-SALINE/NON-SODIC
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<b>Sample Depth:</b>		0-12"		<b>Field ID</b> SCHEPLER FARMS 19-03	
SOIL PERMEABILITY HAZARD (based on ESP and SAR):					
Soil texture		Potential hazard			
-----		-----			
COARSE (sands, loamy sands, sandy loams)		LOW			
MEDIUM (loams, silt loams, clay loams)		LOW			
FINE (silty clay loams, clays)		LOW			
SOIL SALINITY HAZARD (based on extractable salts, ECe):					
Crop type		Potential hazard			
-----		-----			
SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.) . . . . .		LOW			
MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, brome grass, etc.) . . . . .		LOW			
SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.) . . . . .		LOW			
EXTRACTABLE BORON HAZARD (based on soil extractable boron, B):					
Crop type		Potential hazard			
-----		-----			
BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.) . . . . .		LOW			
MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.) . . . . .		LOW			
BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.) . . . . .		LOW			

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