Soil, Water and Plant Testing Laboratory
1120 Campus Delivery
Fort Collins, CO 80523-1120

Tel: (970) 491-5061
Email: soiltestinglab@colostate.edu

Alex Kotte
2 N Nevada Ave, Ste 300
Colorado Springs, CO 80903

Lab ID: 2022S3011
Sample ID: Waterview North

Date Received: 8/5/2022
Date Reported: 8/19/2022

Soil Analysis	Units	Results	Test Rating*						
1:1 Soil pH		7.2	Strongly Acid <5.4	Moderately Acid 5.4-5.7	Slightly Acid 5.8-6.4	Neutral 6.5-7.2	Slightly Alkaline 7.3-7.6	Moderately Alkaline 7.7-7.9	Strongly Alkaline >7.9
1:1 Soluble Salts (EC)	mmho/cm	0.21	Very Low <0.2	Low 0.2-0.7	Moderate 0.8-1.2	Moderately High 1.3-2.5	High 2.6-5.0	Very High >5.0	
Excess Lime		LOW							
Organic Matter LOI	%	1.4	Very Low <0.5	Low 0.5-1.5	Medium 1.6-3.0	High 3.1-5.0	Very High >5.0		
KCl Nitrate-N	ppm	0-6" 0.1	Very Low <5	Low 5-10	Medium 11-25	High 26-50	Very High >50	lb/1000 sq. ft. 0	Recommendation lb/1000 sq.ft. 1.2
Olsen Bicarbonate Phosphorus (P)	ppm	0-6" 0.001	Very Low 0-3	Low 4-6	Medium 7-10	Optimum 11-15	High 16-20	Very High >20	Recommendation lb/1000 sq.ft. 0.9 P2O5
Ammonium Acetate									
Potassium (K)	ppm	0-6" 788	Very Low <60	Low 60-120	Medium 121-160	Optimum 161-220	High 221-280	Very High >280	Recommendation lb/1000 sq.ft. 0
Calcium (Ca)	ppm	2954	Very Low <100	Low 100-200	Medium 201-300	Optimum 301-2500	High >2500	Very High >5000	Recommendation lb/1000 sq.ft. 0
Magnesium (Mg)	ppm	537	Very Low <25	Low 25-50	Medium 51-75	Optimum 76-100	High 101-200	Very High >200	Recommendation lb/1000 sq.ft. 0
Sodium (Na)	ppm	58							
Cation Exchange Capacity (CEC) or Sum of Cations	meq/100g	21.5	Sand 3-5	Loam 10-15	Silt Loams 15-25	Clay & Clay Loam 20-50	Organic Soils 50-100		
Base Saturation	%	100.0	H	K 9.4	Ca 68.7	Mg 20.8	Na 1.2		

Soil, Water and Plant Testing Laboratory
1120 Campus Delivery
Fort Collins, CO 80523-1120

Tel: (970) 491-5061
Email: soiltestinglab@colostate.edu

Alex Kotte
2 N Nevada Ave, Ste 300
Colorado Springs, CO 80903

Lab ID: 2022S3011
Sample ID: Waterview North

Date Received: 8/5/2022
Date Reported: 8/19/2022

Soil Analysis	Units	Results	Test Rating*						
Mehlich-3									
		0-6"	Very Low	Low	Medium	Optimum	High	Very High	Recommendation lb/1000 sq.ft.
Sulfate-S	ppm	4.8	<2	2-5	6-10		11-15	>15	1
DTPA									
		0-6"	Very Low	Low	Medium	Optimum	High	Very High	Recommendation lb/1000 sq.ft.
Zinc (Zn)	ppm	17.28	<0.3	0.3-0.5	0.6-0.8	0.9-1.2	1.3-2.0	>2.0	0
			Very Low	Low	Medium	Optimum	High	Very High	Recommendation lb/1000 sq.ft.
Iron (Fe)	ppm	9.53	<1.0	1.0-2.5	2.6-5.0	5.1-15.0	15.1-30	>30	0
			Very Low	Low	Medium	Optimum	High	Very High	Recommendation lb/1000 sq.ft.
Manganese (Mn)	ppm	0.001	<0.5	0.5-1.0	1.1-3.0	3.1-6.0	6.1-10.0	>10	0.25
			Very Low	Low	Medium	Optimum	High	Very High	Recommendation lb/1000 sq.ft.
Copper (Cu)	ppm	3.95	<0.1	0.1-0.2	0.3-0.4	0.5-0.8	0.9-1.5	>1.5	0
Hot Water Extraction									
		0-6"	Very Low	Low	Medium	Optimum	High	Very High	Recommendation lb/1000 sq.ft.
Boron (B)	ppm	0.57	<0.2	0.2-0.5	0.6-0.8	0.9-1.5	1.6-2.5	>2.5	0
Calcium Nitrate									
Chloride (Cl)	ppm								
Soil Texture									
% Sand	%								
% Silt	%								
% Clay	%								
Texture by Hydrometer									
Heavy Metals									
Arsenic (As)	ppm								
Cadmium (Cd)	ppm								
Chromium (Cr)	ppm								
Lead (Pb)	ppm								
Molybdenum (Mo)	ppm								
Selenium (Se)	ppm								
Sodium Absorption Ratio									
SAR									

*Test ratings are provided for general crop production. The ranges may be different for individual crops or for specific situations.

Comments:

Fertilizer recommendations for native grass: Apply 1.2 lb, N, 0.9 lb P_2O_5, 0 lb K_2O, and 1 lb S per 1000 sq. ft. There have been no confirmed deficiency of manganese in native grass in Colorado. Applying manganese may not improve native grasses growth.