1405 32nd Ave Brookings, SD 57006 Certificate of Analysis



Certificate Number: 20-009931 Report Date: August 07, 2020

Client:

ADVANTAGE LAND CO 510 MAIN AVE STE 4 Brookings SD 57006 UNITED STATES

Page 1 of 1

Sam	ple	Infor	mation:	
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SGS Sample Identification:	MW20-05606.001			
Client Sample Identification:	NUEHARTH - WOLSEY 1ST CUT 2020 FIELD 1			
Received:	July 27, 2020			
Sample/Product Type:	Hay			
The sample condition upon arrival was acceptable for testing.				

Analysis		Result	Units L.	O.Q. Method
Relative Feed Value (RFV)		114	N	N/A SDSU Extension ExEx8149 (August 2004)
Analysis	As Received	On Dry Matter	Units	Method
Drymatter	* 83.40		%	AOAC 930.15
Moisture	* 16.60		%	AOAC 930.15
Crude protein content	* 16.10	19.30	%	AOAC 990.03
ADF	33.20	39.80	%	ANKOM Technology Method 5
NDF	39.40	47.20	%	ANKOM Technology Method 6
Total digestible nutrients	47.70	57.20	%	Calculation
Net Energy Lactation	0.48	0.58	Mcal/lb	Calculation
Net Energy Maintenance	0.47	0.56	Mcal/lb	Calculation
Net Energy Gain	0.27	0.32	Mcal/lb	Calculation
Calcium	1.71	2.05	%	ANA008CHEM
Copper	9.20	11.00	PPM	ANA008CHEM
Iron	154.00	185.00	PPM	ANA008CHEM
Potassium	1.63	1.96	%	ANA008CHEM
Magnesium	0.40	0.48	%	ANA008CHEM
Manganese	54.90	65.80	PPM	ANA008CHEM
Sodium	0.05	0.06	%	ANA008CHEM
Phosphorous	0.14	0.17	%	ANA008CHEM
Sulfur	0.24	0.29	%	ANA008CHEM
Zinc	21.80	26.20	PPM	ANA008CHEM

Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected

* Analytical results were determined by a third party laboratory. Information concerning the subcontracted laboratory is available upon request. Liability for the subcontracted results remain with the subcontracted laboratory.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and/or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

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Certificate of Analysis MW20-05606.001

Page 1 of 1

Certificate Number: 20-009931



Dustin Edmison Laboratory Manager Start/End Analysis: 07/27/2020 - 08/07/2020

Method References: ANA0080 EN17053

ANA008CHEM: AOAC 2011.14 EN17053:2018 USP <2232> EPA 200.7

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