



# CUMBERLAND VALLEY ANALYTICAL SERVICES

"Laboratory services for agriculture ... from the field to the feed bunk"

Farm: CLAPPERTON RANCH  
Desc: 2020, 3rd Cut, GRASS ONLY, Cabin Field  
Submitter: SWIFT, MARYLOU  
Account: TROUW NUTRITION CANADA-CHILLIWACK

Copies to: WILLIX, AMY

Lab ID: 29178 005  
Sampled: 09/16/2020  
Arrived: 09/18/2020  
Completed: 09/21/2020  
Reported: 09/21/2020

## 3RD CUT CABIN FIELD AG HAY

SAMPLE INFORMATION			
Lab ID:	29178 005	Version:	1.0
Crop Year:		Series:	
Feed Type:	MML FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	10.3
Dry Matter	89.7

PROTEINS	% SP	% CP	% DM
Crude Protein			19.2
Adjusted Protein			19.2
Soluble Protein		32.4	6.2
Ammonia (CPE)	10.1	3.3	0.63
ADF Protein (ADICP)		5.4	1.04
NDF Protein (NDICP)		15.8	3.04
NDR Protein (NDRCP)			
Rumen Degr. Protein		66.2	12.7
Amino Acid Protein, Total			

FIBER	% NDF	% DM
ADF	63.2	28.7
aNDF		45.4
aNDFom		44.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	6.96	3.16
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		37.1	8.9
Water Soluble CHO (WSC-Sugar)			9.7
Starch	6.2		1.5
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			3.36
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

Values in bold were analyzed by wet chemistry methods.

MINERALS	
Ash (%DM)	11.0
Calcium (%DM)	0.84
Phosphorus (%DM)	0.33
Magnesium (%DM)	0.28
Potassium (%DM)	3.36
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
Equine TDN (%DM)	56.2
Equine DE (Mcal/lb)	1.12
Net Energy Lactation (Mcal/lb)	0.66
Net Energy Maintenance (Mcal/lb)	0.69
Net Energy Gain (Mcal/lb)	0.42
ME (Mcal/lb)	1.09
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	136
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	24.1
Non Structural Carbohydrates (%DM)	11.2
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



Cumberland Valley Analytical Services, Inc.



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