



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **CLAPPERTON RANCH**
Desc: **2ND-LOWER FIELD-TWO TOWER**
Submitter: **TNCA BC DAIRY, WEST FORAGES**
Account: **TNCA BC DAIRY**

Copies to: **PETERS, JENILEE**
MCCAULEY, ANN-MARIE

Lab ID: **37486 180**
Sampled: **08/10/2025**
Arrived: **08/12/2025**
Completed: **08/15/2025**
Reported: **08/15/2025**

2ND-LOWER FIELD-TWO TOWER

SAMPLE INFORMATION

Lab ID: 37486 180 Version: 1.0
Crop Year: Series:
Feed Type: MML FORAGE Cutting#:
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 7.3
Dry Matter 92.7

PROTEINS

	% SP	% CP	% DM
Crude Protein			13.6
Adjusted Protein			13.6
Soluble Protein		43.8	6.0
Ammonia (CPE)	18.6	8.1	1.11
ADF Protein (ADICP)		10.1	1.37
NDF Protein (NDICP)		17.0	2.32
NDR Protein (NDRCP)			
Rumen Degr. Protein		71.9	9.8
Amino Acid Protein, Total			

FIBER

	% NDF	% DM
ADF	80.1	44.5
aNDF		55.5
aNDFom		54.6
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	17.5	9.72
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)		23.4	5.5
Water Soluble CHO (WSC-Sugar)			9.6
Starch			
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			1.83
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) 7.78
Calcium (%DM) 1.01
Phosphorus (%DM) 0.20
Magnesium (%DM) 0.24
Potassium (%DM) 1.86
Sulfur (%DM) 0.22
Sodium (%DM) 0.05
Chloride (%DM)
Iron (PPM) 172.00
Manganese (PPM) 37.00
Zinc (PPM) 18.00
Copper (PPM) 14.00
Molybdenum (PPM)

QUALITATIVE

pH
Total VFA (%DM)
Lactic Acid (%DM)
Lactic as % of Total VFA
Acetic Acid (%DM)
Butyric Acid (%DM)
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

Equine TDN (%DM) 45.6
Equine DE (Mcal/lb) 0.91
Net Energy Lactation (Mcal/lb) 0.53
Net Energy Maintenance (Mcal/lb) 0.47
Net Energy Gain (Mcal/lb) 0.22
ME (Mcal/lb) 0.85
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 4.2
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 91
Relative Forage Quality (RFQ)
Milk per Ton (lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
NFC (Non-Fiber Carbohydrates)(%DM) 23.6
NSC (Non-Structural Carbohydrates) ESC (%DM)
NSC (Non-Structural Carbohydrates) WSC (%DM)
DCAD (meq/100gdm)
Summative Index % (Mass Balance)

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



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