



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **HICKS HAY LLC**  
Desc: **DAN TROXELL PA TIMOTHY**  
Submitter: **HICKS, PETER**  
Account: **HICKS HAY CO.**

Copies to:

Lab ID: **31927 163**  
Sampled: **03/28/2022**  
Arrived: **03/30/2022**  
Completed: **03/30/2022**  
Reported: **03/30/2022**

## DAN TROXELL PA TIMOTHY

### SAMPLE INFORMATION

Lab ID: 31927 163      Version: 1.0  
Crop Year: 2021      Series:  
Feed Type: TIMOTHY FORAGE      Cutting#:  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 12.7  
Dry Matter 87.3

### PROTEINS

	% SP	% CP	% DM
Crude Protein			6.3
Adjusted Protein		88.9	5.6
Soluble Protein		30.3	1.9
Ammonia (CPE)	90.0	27.2	1.71
ADF Protein (ADICP)		17.2	1.08
NDF Protein (NDICP)		35.7	2.24
NDR Protein (NDRCP)			
Rumen Degr. Protein		65.1	4.1
Amino Acid Protein, Total			

### FIBER

	% NDF	% DM
ADF	65.5	41.6
aNDF		63.5
aNDFom		62.0
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	10.4	6.64
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)		36.6	9.0
Water Soluble CHO (WSC-Sugar)			12.2
Starch		7.8	1.9
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.52
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

### MINERALS

Ash (%DM)	5.19
Calcium (%DM)	0.44
Phosphorus (%DM)	0.17
Magnesium (%DM)	0.17
Potassium (%DM)	1.23
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
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)	45.4
Equine DE (Mcal/lb)	0.91
Net Energy Lactation (Mcal/lb)	0.58
Net Energy Maintenance (Mcal/lb)	0.57
Net Energy Gain (Mcal/lb)	0.31
ME (Mcal/lb)	0.96
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	5.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	83
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	24.7
Non Structural Carbohydrates, ESC (%DM)	10.9
Non Structural Carbohydrates, WSC (%DM)	14.1
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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



Values in bold were analyzed by wet chemistry methods.



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