

Warren Toews
Box 245
Waskatenau, AB T0A 3P0

780-915-0870

Commodity/Product: Hay For Horses
Client Sample ID: Carol Farm - 1st Cut

Job Number : GF21-00793

Received : 26-Jul-2021

Completed : 29-Jul-2021

Order Reference : Warren Toews - Carol Farm & Straw

Analysis	Dry Basis	As Is
Dry matter (%)	--	92.23
Moisture (%)	--	7.77
<u>PROTEIN</u>		
Protein {N x 6.25} (%)	12.53	11.56
Soluble Protein (%)	3.64	3.36
Soluble Protein as %CP	29.05	--
ADF-CP [ADP] (%)	1.16	1.07
ADP as %CP	9.26	--
Adjusted Crude Protein	12.53	11.56
NDF-CP [NDP] (%)	5.32	4.91
NDP as %CP	42.46	--
<u>FIBRES</u>		
Acid Detergent Fibre (%)	34.18	31.52
aNeutral Detergent Fibre (%)	55.10	50.82
Lignin (%)	6.50	5.99
<u>NON-FIBRES</u>		
Fat (%)	1.73	1.60
Ethanol Soluble CHO (%)	8.28	7.64
Water Soluble CHO (%)	11.25	10.38
Starch (%)	2.97	2.74
Non-Structural Carbohydrates (%)	14.22	13.11

Analysis	Dry Basis	As Is
<u>MINERALS</u>		
Ash (%)	5.03	4.64
Calcium (%)	0.84	0.77
Phosphorus (%)	0.21	0.19
Potassium (%)	1.89	1.74
Magnesium (%)	0.20	0.18
Sodium (%)	0.08	0.07
Copper (ppm)	5.23	4.83
Iron (ppm)	205.77	189.77
Manganese (ppm)	41.86	38.60
Zinc (ppm)	26.99	24.89
Ca:P Ratio	4.07	--
Zn:Cu Ratio	5.16	--
<u>ENERGY (ADF Based)</u>		
TDN (%)	49.55	45.70
Digestible Energy (Mcal/kg)	2.18	2.01
<u>OTHER</u>		
Relative Feed Value	105.13	--

Signed and dated in Guelph, ON
On 30-Jul-2021



For and on behalf of SGS Canada Inc., Agriculture and Food

Jack Legg, CCA-ON, 4R NMS
Branch Manager, Agronomist

Report File Reference Number: 0000181426

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Warren Toews
Box 245
Waskatenau, AB T0A 3P0

780-915-0870

Commodity/Product: Hay For Horses
Client Sample ID: Red Deer - 1st Cut

Job Number : GF21-00793

Received : 26-Jul-2021

Completed : 29-Jul-2021

Order Reference : Warren Toews - Carol Farm & Straw

Analysis	Dry Basis	As Is
Dry matter (%)	--	92.14
Moisture (%)	--	7.86
<u>PROTEIN</u>		
Protein {N x 6.25} (%)	12.46	11.48
Soluble Protein (%)	4.62	4.26
Soluble Protein as %CP	37.08	--
ADF-CP [ADP] (%)	1.56	1.44
ADP as %CP	12.52	--
Adjusted Crude Protein	12.46	11.48
NDF-CP [NDP] (%)	4.79	4.41
NDP as %CP	38.44	--
<u>FIBRES</u>		
Acid Detergent Fibre (%)	36.62	33.74
aNeutral Detergent Fibre (%)	58.17	53.60
Lignin (%)	7.42	6.84
<u>NON-FIBRES</u>		
Fat (%)	1.77	1.63
Ethanol Soluble CHO (%)	7.75	7.14
Water Soluble CHO (%)	10.23	9.43
Starch (%)	2.33	2.15
Non-Structural Carbohydrates (%)	12.56	11.57

Analysis	Dry Basis	As Is
<u>MINERALS</u>		
Ash (%)	6.06	5.58
Calcium (%)	0.61	0.56
Phosphorus (%)	0.18	0.17
Potassium (%)	2.14	1.97
Magnesium (%)	0.19	0.18
Sodium (%)	0.09	0.08
Copper (ppm)	4.65	4.28
Iron (ppm)	89.95	82.88
Manganese (ppm)	39.45	36.35
Zinc (ppm)	28.05	25.84
Ca:P Ratio	3.36	--
Zn:Cu Ratio	6.03	--
<u>ENERGY (ADF Based)</u>		
TDN (%)	47.80	44.04
Digestible Energy (Mcal/kg)	2.11	1.94
<u>OTHER</u>		
Relative Feed Value	96.55	--

Signed and dated in Guelph, ON
On 30-Jul-2021



For and on behalf of SGS Canada Inc., Agriculture and Food

Jack Legg, CCA-ON, 4R NMS
Branch Manager, Agronomist

Report File Reference Number: 0000181426

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Warren Toews
Box 245
Waskatenau, AB T0A 3P0

Job Number : GF21-00793

Received : 26-Jul-2021

Completed : 29-Jul-2021

Order Reference : Warren Toews - Carol Farm & Straw

780-915-0870

Commodity/Product: Hay For Horses

Client Sample ID: Lazowski - 1st Cut

Analysis	Dry Basis	As Is
Dry matter (%)	--	91.92
Moisture (%)	--	8.08
PROTEIN		
Protein {N x 6.25} (%)	14.91	13.71
Soluble Protein (%)	4.82	4.43
Soluble Protein as %CP	32.33	--
ADF-CP [ADP] (%)	1.68	1.54
ADP as %CP	11.27	--
Adjusted Crude Protein	14.91	13.71
NDF-CP [NDP] (%)	4.41	4.05
NDP as %CP	29.58	--
FIBRES		
Acid Detergent Fibre (%)	34.23	31.46
aNeutral Detergent Fibre (%)	52.13	47.92
Lignin (%)	7.62	7.00
NON-FIBRES		
Fat (%)	1.43	1.31
Ethanol Soluble CHO (%)	8.00	7.35
Water Soluble CHO (%)	10.23	9.40
Starch (%)	2.03	1.87
Non-Structural Carbohydrates (%)	12.26	11.27

Analysis	Dry Basis	As Is
MINERALS		
Ash (%)	5.47	5.03
Calcium (%)	0.87	0.80
Phosphorus (%)	0.19	0.17
Potassium (%)	2.15	1.98
Magnesium (%)	0.17	0.16
Sodium (%)	0.05	0.05
Copper (ppm)	5.03	4.63
Iron (ppm)	91.47	84.07
Manganese (ppm)	24.07	22.13
Zinc (ppm)	23.29	21.40
Ca:P Ratio	4.63	--
Zn:Cu Ratio	4.63	--
ENERGY (ADF Based)		
TDN (%)	51.30	47.16
Digestible Energy (Mcal/kg)	2.26	2.08
OTHER		
Relative Feed Value	111.05	--

Signed and dated in Guelph, ON
On 30-Jul-2021

For and on behalf of SGS Canada Inc., Agriculture and Food



Jack Legg, CCA-ON, 4R NMS
Branch Manager, Agronomist

Report File Reference Number: 0000181426

Page 1 of 1

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Warren Toews
Box 245
Waskatenau, AB T0A 3P0

Job Number : GF21-00793

Received : 26-Jul-2021

Completed : 29-Jul-2021

Order Reference : Warren Toews - Carol Farm & Straw

780-915-0870

Commodity/Product: Hay For Horses

Client Sample ID: Ford's - 1st Cut

Analysis	Dry Basis	As Is
Dry matter (%)	--	92.38
Moisture (%)	--	7.62
<u>PROTEIN</u>		
Protein {N x 6.25} (%)	14.75	13.63
Soluble Protein (%)	4.48	4.14
Soluble Protein as %CP	30.37	--
ADF-CP [ADP] (%)	1.59	1.47
ADP as %CP	10.78	--
Adjusted Crude Protein	14.75	13.63
NDF-CP [NDP] (%)	5.41	5.00
NDP as %CP	36.68	--
<u>FIBRES</u>		
Acid Detergent Fibre (%)	32.69	30.20
aNeutral Detergent Fibre (%)	52.33	48.34
Lignin (%)	6.76	6.25
<u>NON-FIBRES</u>		
Fat (%)	1.81	1.67
Ethanol Soluble CHO (%)	7.99	7.38
Water Soluble CHO (%)	10.85	10.02
Starch (%)	1.95	1.80
Non-Structural Carbohydrates (%)	12.80	11.83

Analysis	Dry Basis	As Is
<u>MINERALS</u>		
Ash (%)	7.60	7.02
Calcium (%)	0.78	0.72
Phosphorus (%)	0.21	0.19
Potassium (%)	1.81	1.67
Magnesium (%)	0.20	0.18
Sodium (%)	0.12	0.12
Copper (ppm)	5.23	4.83
Iron (ppm)	113.15	104.53
Manganese (ppm)	47.06	43.48
Zinc (ppm)	22.76	21.03
Ca:P Ratio	3.71	--
Zn:Cu Ratio	4.35	--
<u>ENERGY (ADF Based)</u>		
TDN (%)	52.41	48.42
Digestible Energy (Mcal/kg)	2.31	2.13
<u>OTHER</u>		
Relative Feed Value	112.76	--

Signed and dated in Guelph, ON
On 30-Jul-2021

For and on behalf of SGS Canada Inc., Agriculture and Food



Jack Legg, CCA-ON, 4R NMS
Branch Manager, Agronomist

Report File Reference Number: 0000181426

Page 1 of 1

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Warren Toews
Box 245
Waskatenau, AB T0A 3P0

780-915-0870

Commodity/Product: Mixed Feeds

Client Sample ID: Straw

Job Number : GF21-00793

Received : 26-Jul-2021

Completed : 29-Jul-2021

Order Reference : Warren Toews - Carol Farm & Straw

Analysis	Dry Basis	As Is
Dry matter (%)	--	90.96
Moisture (%)	--	9.04
<u>PROTEIN</u>		
Protein {N x 6.25} (%)	8.24	7.50
<u>FIBRES</u>		
ADF (%)	47.93	43.60
aNeutral Detergent Fibre (%)	72.3	65.7

Analysis	Dry Basis	As Is
<u>MINERALS</u>		
Calcium (%)	0.40	0.36
Phosphorus (%)	0.13	0.12
Potassium (%)	1.28	1.16
Magnesium (%)	0.10	0.09
Sodium (%)	0.03	0.02
Copper (ppm)	2.63	2.39
Iron (ppm)	1066.85	970.45
Manganese (ppm)	160.11	145.64
Zinc (ppm)	106.79	97.14
<u>ENERGY (ADF Based)</u>		
TDN (%)	52.21	47.49
Net Energy {lac} (Mcal/kg)	1.09	1.00
Net Energy {gain} (Mcal/kg)	0.48	0.44
Net Energy {maint} (Mcal/kg)	1.03	0.94

Signed and dated in Guelph, ON
On 30-Jul-2021



For and on behalf of SGS Canada Inc., Agriculture and Food

Jack Legg, CCA-ON, 4R NMS
Branch Manager, Agronomist

Report File Reference Number: 0000181426

The analysis report above refers to the time and place of testing, and strictly to the supplied sample(s) only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment or/and SGS sampling and inspection.

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.