PUNGO RIVER LIME COMPANY

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DIVISION OF SOLID WASTE SECTION

2013

WEYERHAEUSER LIME BY-PRODUCT APPLICATION SUMMARY

Prepared by: Mark E. Elliott
(252) 974-1182

Total Agronomic Services

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MAPS, & SOIL SAMPLES (BY FARM)

SECTION #1

2013 WEYERHAEUSER LIME BY-PRODUCT APPLICATION SUMMARY

These lime by-product applications were based on the information supplied to Total Agronomic Services by Pungo River Lime and Slades Creek Farms. Pungo River Lime applied the Weyerhaeuser lime by-product on 981.1 acres of Armstrong Farms, 8.78 acres of Slades Creek Farms, Hyde County, North Carolina, using broadcast spreader trucks. The lime by-product applied from June 2012 to June 2013 totaled 1.199.88 tons, primarily used as a liming agent. The soil lime and fertility needs were determined from soil tests conducted by the North Carolina Department of Agriculture. Corn and Wheat were grown on these farms for the 2013 season.

Waste Analysis Reports were conducted by NCDA on the Lime by-product that Pungo River Lime had on site. The Waste Analysis results reported the Lime by-product to have a good Agricultural Lime Equivalence, 1.35 tons of by-products to equal 1.0 ton of Ag Lime. Using the Soil Sample Reports and Waste Analysis Reports, recommendations were made using the geo-referenced application rate of lime by-product on a farm by farm basis.

Pungo River Lime Co., Inc. stockpiled and applied the lime mud material in accordance with agronomic need and best management practices. Lime mud was only applied at light to no winds, at least 100 feet from residences. Materials were spread in a timely manner with stockpiles located away from water ways and properly buffered.

Total Agronomic Services

2013 WEYERHAEUSER LIME BY-PRODUCT APPLICATION
Prepared by Total Agronomic Services

ARMSTRONG FARMS
Hyde County, NC

APPLICATION DATE	FARM NAME	TOTAL ACRES	TOTAL TONS APPLIED	AVERAGE TONS APPLIED/ACRE
Nov-12	C-4 Block	382.9	517.0	1.4
Nov-12	RICH WAGMAN	455.4	541.4	1.2
Jan-13	McCALL	95.0	7.4	0.1
Feb-13	HANK	215.4	127.9	0.6
	TOTAL	1,148.7	1,193.7	

SLADES CREEK FARMS
Hyde County, NC

APPLICATION DATE	FARM NAME	TOTAL ACRES	TOTAL TONS APPLIED	AVERAGE TONS APPLIED/ACRE
Jan-12	GLENN FISCHER	78.0	6.2	0.1
	TOTAL	78.0	6.2	

TOTAL LIME MUD 1,199.9 **Tons**

Total Agronomic Services
FARM CONSULTANTS
252-974-1182

SECTION #2

NCDA&CS Agronomic Division Phone: (919) 733-2655 Website: www.ncagr.gov/agronomi/ Report No. FY13-W001059

Predictive

Waste Report

Client: Darren Armstrong
PO Box 134
Belhaven, NC 27810

Advisor: Total Agronomic Services
706 River Rd
Washington, NC 27889

County: Hyde

Links to Helpful Information

Sampled: Received: 08/14/2012 Completed: 08/15/2012 Farm: LIME MUD

Sample Information

Sample ID: 812MUD
Waste Code: SAR
Description:
Indust.-Stack Ash

Comments:

Nutrient and Other Measurements

Nitrogen (N) (ppm)		P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	S (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	Cu (ppm)	B (ppm)	Na (ppm)	C (ppm)
Total N	481	2750	996	288000	5480	641	884	299	22.0	7.36	11.7	6590	
Total Kjeldahl N													

Inorganic N	pH	DM (%)	SS (10^{-5}S/cm)	EC (mS/cm)	CCE (%)	ALE (tons)	C:N
NH_4-N	11.59	70.8			94.0	1.35	
NO_3-N							

Organic N	Ni (ppm)	Cd (ppm)	Pb (ppm)	Al (ppm)	Se (ppm)	Li (ppm)	As (ppm)	Cr (ppm)	Co (ppm)	Cl (ppm)	Mo (ppm)
Urea											

Estimate of Nutrients Available for First Crop (lb / ton)

Application Method	N	P_2O_5	K_2O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo
Broadcast	0.34	6.25	1.35	285	5.43	0.64	0.88	0.30	0.02	0.01	0.01	
Broadcast	0.34	6.25	1.35	285	5.43	0.64	0.88	0.30	0.02	0.01	0.01	

Other Elements (lb / ton)

Application Method	Cl	Na	Ni	Cd	Pb	Al	Se	Li
Broadcast		9.33						
Broadcast		9.33						

Agronomist's Comments:

Completed: 8/24/12; recompleted: 9/12/2012

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

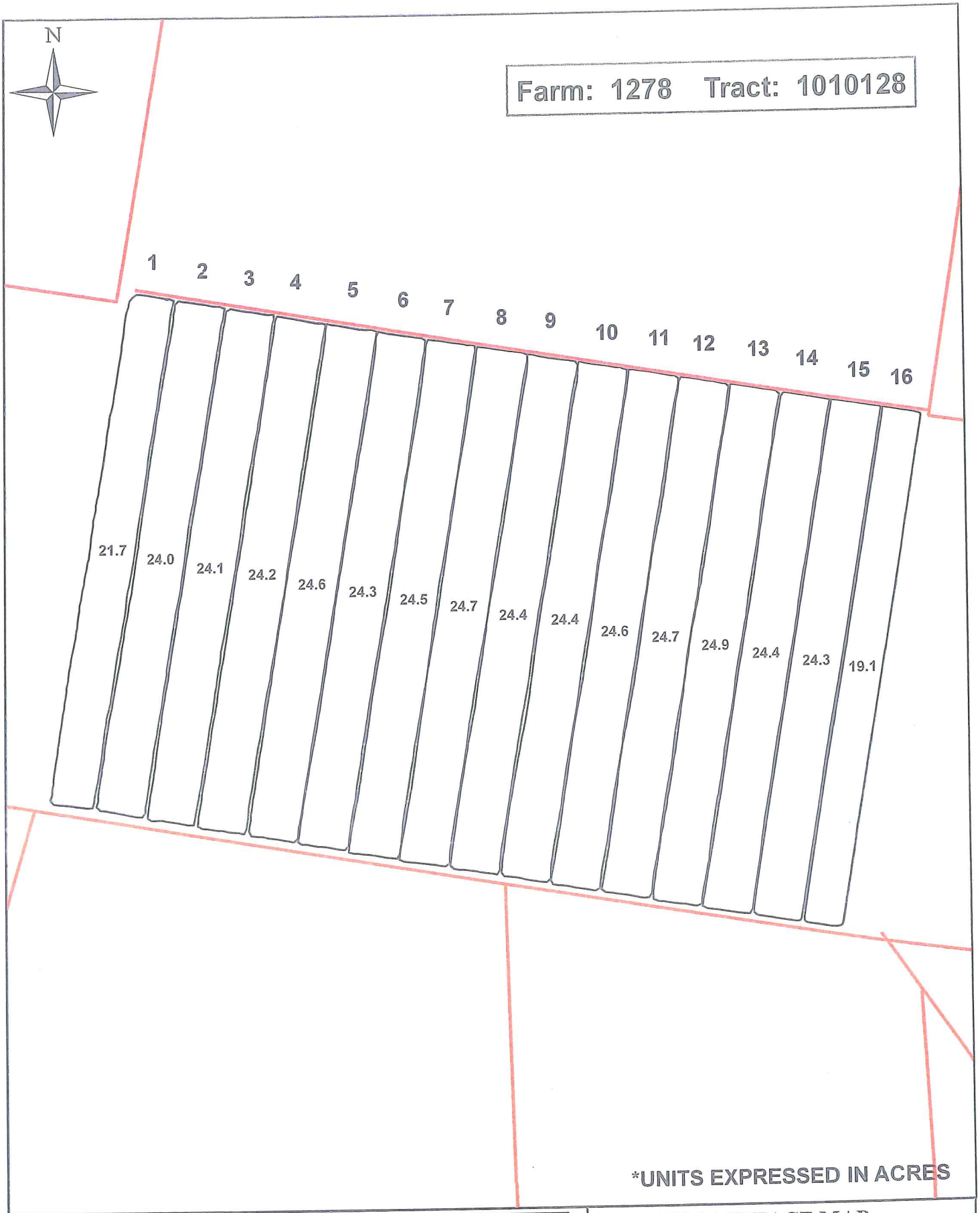
Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.

Understanding the Waste Report * - *additional information:* www.ncagr.gov/agronomi/pdffiles/uwaste.pdf & www.ncagr.gov/agronomi/pdffiles/wasteguide.pdf

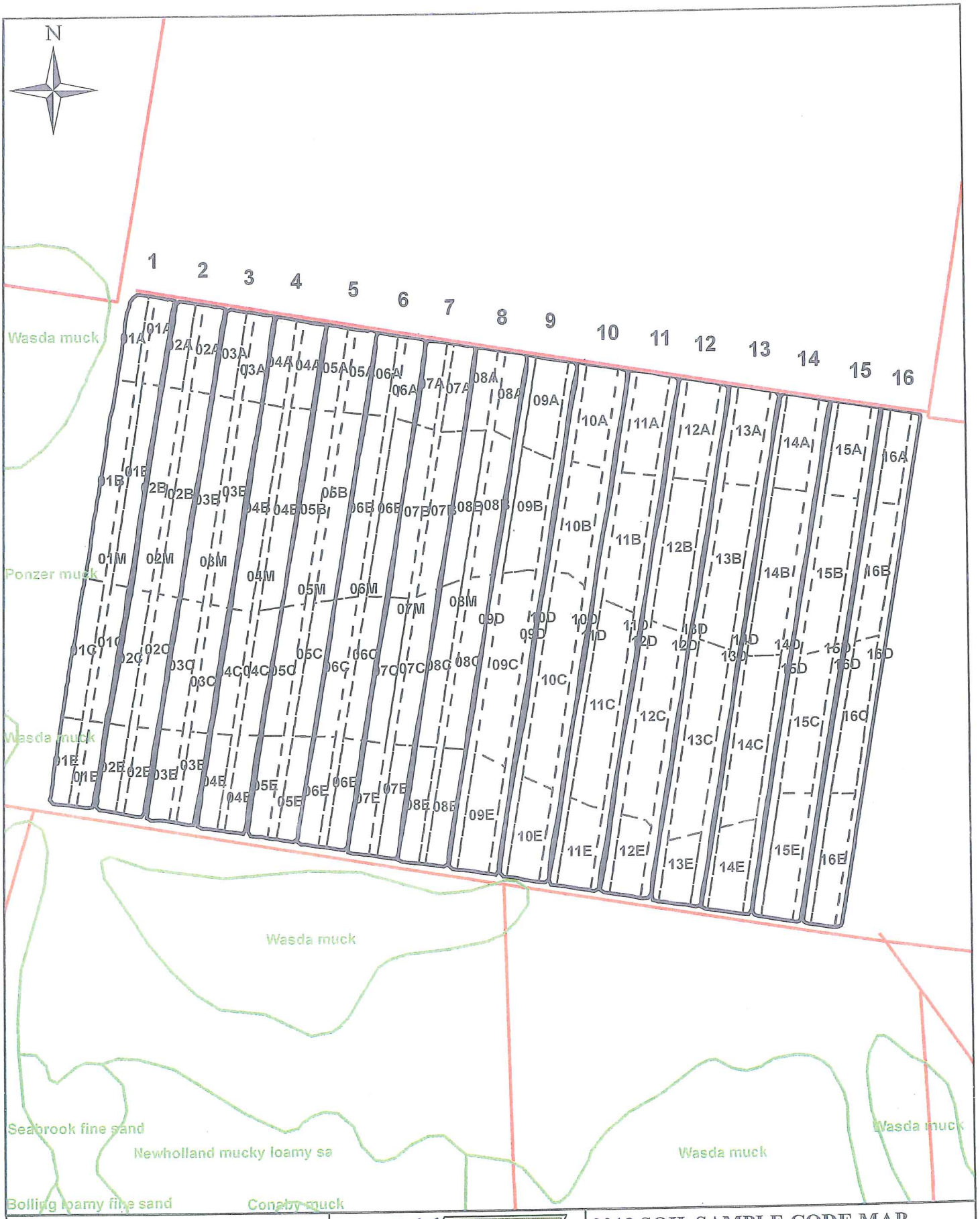
Nutrient concentrations and other data on this report are provided so that waste materials can be applied at agronomic rates, thereby supplementing or reducing fertilizer application and preventing environmental contamination. In reading the **Laboratory Results** section, remember that materials with < 15% dry matter (generally liquids) are analyzed as received; all other wastes are dried first. Values in the **Estimate of Nutrients Available for First Crop** section are based on the type of waste and method of application you specify and reflect the fact that only 40-60% of the nitrogen and 70-100% of other nutrients become available within one year of application. The remainder *may or may not* ever become available.

* **ppm** = parts per million; **S** = siemens; **mS** = millisiemens; **T** = trace (<0.005 lb/unit); **EC** = electrical conductivity; **CCE** = calcium carbonate equivalence; **ALE** = agricultural lime equivalence; **pH** = acidity or basicity; **DM%** = % dry matter [for semi-solid and solid waste samples, this value facilitates conversion of dry-basis concentrations (ppm) back to wet-basis of original sample]; **C:N ratio** = carbon:nitrogen ratio.

SECTION #3

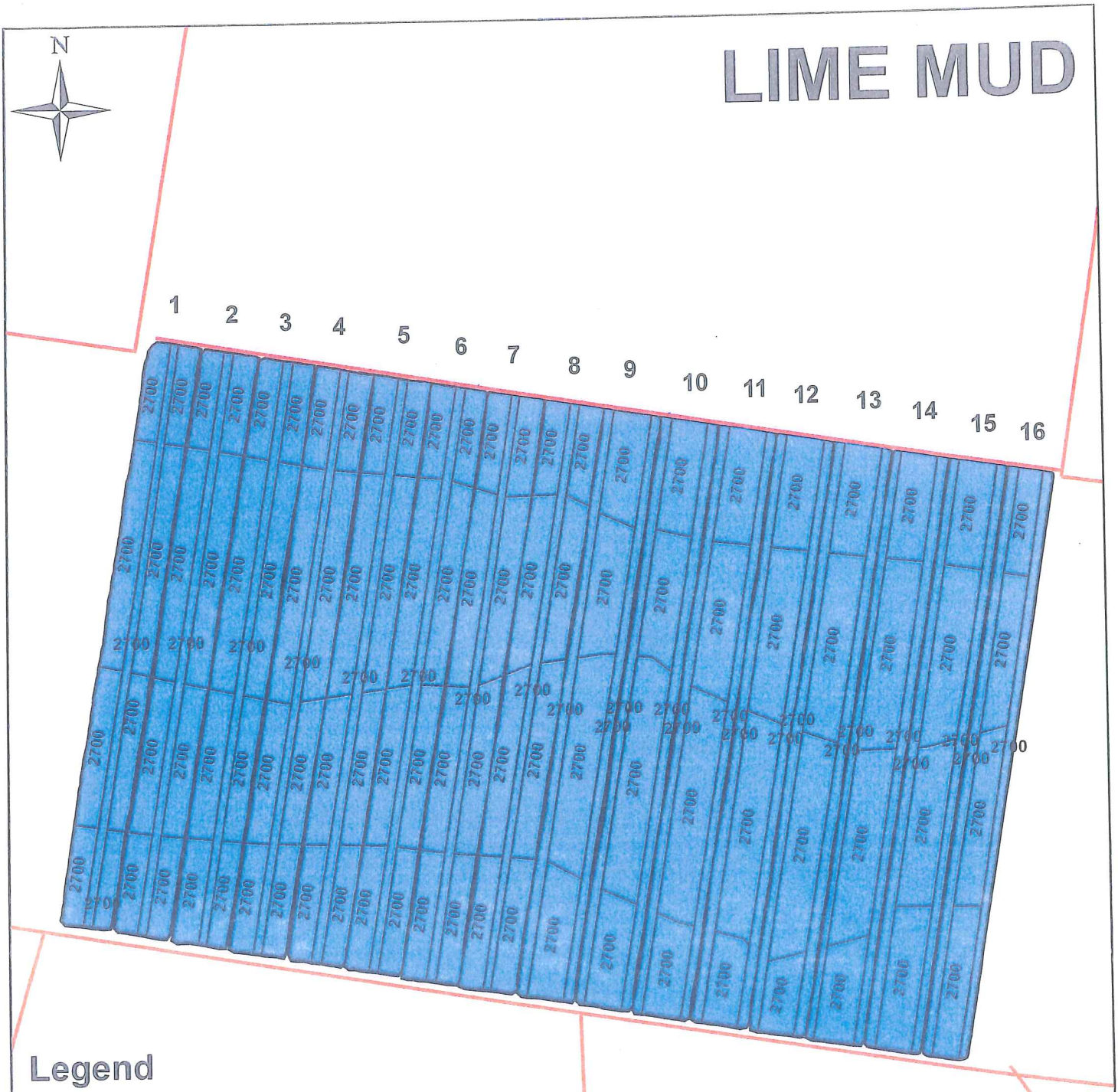


Scale: 1 inch equals 819.769872 feet	TAS TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 FARM ACREAGE MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		C-4 FARM CUTS 1-16
Date: JANUARY 2013		TOTAL ACRES: 382.9



Scale: 1 inch equals 822.672228 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	**2013 SOIL SAMPLE CODE MAP**
Drawn By: MARK E. ELLIOTT		**ARMSTRONG FARMS**
Reviewed By: BWN		C-4 FARM CUTS 1-16
Date: JANUARY 2013		TOTAL ACRES: 382.9

LIME MUD



Legend

LIME MUD @ 2700 LBS/ACRE

2700

*UNITS EXPRESSED IN POUNDS

EST. TOTAL LIME MUD: 517 TONS
ACRES SPREAD: 382.9

2012: CORN
2013: WHEAT/SOYB

Scale: 1 inch equals 822.672228 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 LIME MUD APPLICATION MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		C-4 FARM CUTS 1-16
Date: JUNE 2013		TOTAL ACRES: 382.9

Soil Lime Report

Report No.: 21825 **Lime Rec. Date:** 1/18/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** Block C4 **Farm Code:** 186C04

Smpl ID	Date	Last Crop	Mo. Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type
01A	1/17/2012				ORG	4.9	Corn Grain	0	0.0	Calc
01B	1/17/2012				ORG	5.1	Corn Grain	0	0.0	Calc
01C	1/17/2012				ORG	5.3	Corn Grain	0	0.0	Calc
01E	1/17/2012				ORG	5.7	Corn Grain	0	0.0	Calc
01M	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
02A	1/17/2012				ORG	5.0	Corn Grain	0	0.0	Calc
02B	1/17/2012				ORG	4.8	Corn Grain	0.7	0.5	Calc
02C	1/17/2012				ORG	5.3	Corn Grain	0	0.0	Calc
02E	1/17/2012				ORG	5.3	Corn Grain	0	0.0	Calc
02M	1/17/2012				ORG	4.8	Corn Grain	0.7	0.5	Calc
03A	1/17/2012				ORG	5.1	Corn Grain	0	0.0	Calc
03B	1/17/2012				ORG	5.0	Corn Grain	0	0.0	Calc
03C	1/17/2012				ORG	5.5	Corn Grain	0	0.0	Calc
03E	1/17/2012				ORG	5.2	Corn Grain	0	0.0	Calc
03M	1/17/2012				ORG	5.1	Corn Grain	0	0.0	Calc
04A	1/17/2012				ORG	4.8	Corn Grain	0.7	0.5	Calc
04B	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
04C	1/17/2012				ORG	5.2	Corn Grain	0	0.0	Calc
04E	1/17/2012				ORG	5.3	Corn Grain	0	0.0	Calc
04M	1/17/2012				ORG	5.1	Corn Grain	0	0.0	Calc
05A	1/17/2012				ORG	4.8	Corn Grain	0.8	1.0	Calc
05B	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
05C	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
05E	1/17/2012				ORG	5.0	Corn Grain	0	0.0	Calc
05M	1/17/2012				ORG	5.0	Corn Grain	0	0.0	Calc
06A	1/17/2012				ORG	4.7	Corn Grain	1.2	1.0	Calc
06B	1/17/2012				ORG	4.8	Corn Grain	0.7	0.5	Calc
06C	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
06E	1/17/2012				ORG	5.2	Corn Grain	0	0.0	Calc
06M	1/17/2012				ORG	5.1	Corn Grain	0	0.0	Calc
07A	1/17/2012				ORG	4.8	Corn Grain	0.7	0.5	Calc
07B	1/17/2012				ORG	4.7	Corn Grain	1.1	1.0	Calc
07C	1/17/2012				ORG	4.8	Corn Grain	0.7	0.5	Calc
07E	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
07M	1/17/2012				ORG	5.2	Corn Grain	0	0.0	Calc
08A	1/17/2012				ORG	5.2	Corn Grain	0	0.0	Calc
08B	1/17/2012				ORG	4.8	Corn Grain	0.8	1.0	Calc
08C	1/17/2012				ORG	4.9	Corn Grain	0.4	0.5	Calc
08E	1/17/2012				ORG	5.0	Corn Grain	0	0.0	Calc
08M	1/17/2012				ORG	5.1	Corn Grain	0	0.0	Calc
09A	1/17/2012				ORG	5.0	Corn Grain	0	0.0	Calc
09B	1/17/2012				ORG	4.7	Corn Grain	1.1	1.0	Calc
09C	1/17/2012				ORG	4.7	Corn Grain	1	1.0	Calc

Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
01A	3.9	6.78	0.8	78	64	12	17.4	104
01B	3.2	5.85	0.9	79	65	12	15.3	82
01C	3.3	6.99	0.8	83	69	12	19.0	59
01E	3.6	6.02	0.8	83	69	13	21.8	52
01M	6.0	8.86	0.6	73	59	12	21.9	133
02A	5.8	10	0.6	77	66	10	25.0	95
02B	6.2	10	0.6	70	58	10	20.5	93
02C	4.4	9.21	0.6	82	67	13	24.1	51
02E	4.6	8.24	0.6	81	67	12	24.1	51
02M	6.4	10	0.6	72	58	12	22.6	120
03A	5.6	10+	0.6	77	64	11	24.3	114
03B	6.0	10+	0.6	75	61	12	23.8	128
03C	4.4	9.21	0.6	84	68	14	27.0	93
03E	5.5	8.86	0.7	76	62	12	22.8	85
03M	5.9	10	0.6	76	63	11	24.5	100
04A	6.0	10+	0.5	74	60	12	22.9	129
04B	6.0	9.59	0.6	73	60	11	22.1	94
04C	4.9	8.54	0.6	81	66	13	25.6	79
04E	4.8	8.24	0.7	79	65	12	22.7	58
04M	5.6	10	0.5	79	62	16	27.2	97
05A	6.9	10+	0.5	72	59	11	24.5	118
05B	6.5	10+	0.5	72	59	12	23.6	119
05C	6.3	8.86	0.6	72	59	11	22.2	83
05E	5.7	7.96	0.8	72	58	11	20.3	76
05M	6.6	10	0.6	74	60	13	25.7	100
06A	7.8	10+	0.5	68	56	10	24.0	75
06B	6.2	10+	0.6	73	59	12	22.9	70
06C	6.2	10+	0.6	73	58	13	22.8	60
06E	5.2	9.21	0.7	77	62	13	22.4	82
06M	5.9	10+	0.5	78	63	13	26.5	105
07A	6.6	10+	0.5	72	57	13	23.3	96
07B	6.7	10+	0.6	69	55	12	21.5	85
07C	6.6	10	0.7	66	54	11	19.7	113
07E	6.5	10+	0.6	68	56	10	20.6	96
07M	5.8	9.59	0.6	78	62	15	26.6	168
08A	5.7	10+	0.6	79	65	12	26.9	120
08B	6.9	10+	0.6	72	57	13	24.4	154
08C	6.8	10+	0.6	70	56	13	22.8	128
08E	5.6	10+	0.6	74	59	12	21.8	121
08M	5.6	10+	0.6	79	62	14	26.2	133
09A	5.8	10+	0.5	78	63	13	25.8	123
09B	7.0	10+	0.5	73	59	12	25.6	117
09C	6.4	10+	0.5	74	59	12	24.3	150

Wednesday, June 26, 2013

Soil Lime Report

Report No.: 21825 **Lime Rec. Date:** 1/18/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** Block C4 **Farm Code:** 186C04

Smpl ID	Date	Last Crop	Mo.	Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type	Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
09D	1/17/2012					ORG	4.9	Corn Grain	0.3	0.5	Calc	09D	5.6	10+	0.6	76	60	13	23.3	119
09E	1/17/2012					ORG	4.9	Corn Grain	0.3	0.5	Calc	09E	5.9	10+	0.6	74	60	12	23.0	128
10A	1/17/2012					ORG	4.9	Corn Grain	0.3	0.5	Calc	10A	5.4	10+	0.5	79	61	15	25.7	114
10B	1/17/2012					ORG	4.6	Corn Grain	1.3	1.5	Calc	10B	6.4	10+	0.5	73	60	11	24.0	89
10C	1/17/2012					ORG	4.9	Corn Grain	0.3	0.5	Calc	10C	5.8	10+	0.5	77	62	13	25.5	92
10D	1/17/2012					ORG	5.0	Corn Grain	0	0.0	Calc	10D	5.6	10+	0.6	76	62	12	23.6	92
10E	1/17/2012					ORG	4.8	Corn Grain	0.7	0.5	Calc	10E	6.0	10+	0.6	73	59	12	22.3	83
11A	1/17/2012					ORG	4.9	Corn Grain	0.4	0.5	Calc	11A	6.2	10+	0.6	76	62	12	25.6	76
11B	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	11B	5.8	10+	0.5	78	63	13	26.4	102
11C	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	11C	5.7	10+	0.5	78	64	13	26.0	117
11D	1/17/2012					ORG	4.8	Corn Grain	0.7	0.5	Calc	11D	6.6	10+	0.6	69	56	11	21.5	93
11E	1/17/2012					ORG	5.3	Corn Grain	0	0.0	Calc	11E	4.9	9.59	0.6	82	66	13	26.5	115
12A	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	12A	5.3	10+	0.6	79	66	12	25.8	76
12B	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	12B	5.3	10+	0.6	80	65	13	26.0	115
12C	1/17/2012					ORG	4.9	Corn Grain	0.3	0.5	Calc	12C	5.9	10+	0.5	76	61	12	24.3	133
12D	1/17/2012					ORG	5.0	Corn Grain	0	0.0	Calc	12D	5.6	10	0.6	74	59	13	21.5	85
12E	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	12E	5.6	9.21	0.7	76	62	11	23.4	92
13A	1/17/2012					ORG	4.9	Corn Grain	0.4	0.5	Calc	13A	6.2	10	0.6	75	59	13	24.6	82
13B	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	13B	5.8	10	0.6	77	60	14	25.2	88
13C	1/17/2012					ORG	5.0	Corn Grain	0	0.0	Calc	13C	6.2	10+	0.5	76	59	14	25.6	81
13D	1/17/2012					ORG	5.0	Corn Grain	0	0.0	Calc	13D	5.7	10+	0.6	75	60	13	23.0	121
13E	1/17/2012					ORG	5.2	Corn Grain	0	0.0	Calc	13E	5.4	10+	0.6	78	61	14	25.1	96
14A	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	14A	5.5	10+	0.5	79	64	13	26.8	93
14B	1/17/2012					ORG	4.9	Corn Grain	0.4	0.5	Calc	14B	6.4	10+	0.5	75	61	12	25.7	85
14C	1/17/2012					ORG	4.9	Corn Grain	0.4	0.5	Calc	14C	6.2	10+	0.6	73	59	12	23.0	75
14D	1/17/2012					ORG	5.1	Corn Grain	0	0.0	Calc	14D	5.4	10+	0.6	78	62	12	24.1	94
14E	1/17/2012					ORG	4.9	Corn Grain	0.4	0.5	Calc	14E	6.2	10+	0.5	74	60	12	23.8	81
15A	1/17/2012					ORG	4.9	Corn Grain	0.4	0.5	Calc	15A	6.4	10+	0.5	74	60	12	25.0	100
15B	1/17/2012					ORG	5.2	Corn Grain	0	0.0	Calc	15B	5.2	10+	0.6	81	64	14	27.3	98
15C	1/17/2012		1	2011	0.5	ORG	5.1	Corn Grain	0	0.0	Calc	15C	5.6	10+	0.6	78	63	13	25.2	79
15D	1/17/2012					ORG	4.8	Corn Grain	0.8	1.0	Calc	15D	6.9	10+	0.6	71	57	11	23.6	122
15E	1/17/2012		1	2011	1	ORG	5.0	Corn Grain	0	0.0	Calc	15E	7.0	10+	0.5	77	62	12	29.8	123
16A	1/17/2012					ORG	5.8	Corn Grain	0	0.0	Calc	16A	3.6	9.59	0.6	90	81	7	35.1	43
16B	1/17/2012					ORG	5.3	Corn Grain	0	0.0	Calc	16B	5.4	10+	0.7	79	65	11	25.5	58
16C	1/17/2012		12	2011	1	ORG	5.1	Corn Grain	0	0.0	Calc	16C	6.0	10	0.7	75	62	10	23.8	67
16D	1/17/2012					ORG	5.2	Corn Grain	0	0.0	Calc	16D	5.2	8.86	0.8	75	66	7	21.0	51
16E	1/17/2012					ORG	5.2	Corn Grain	0	0.0	Calc	16E	6.0	10+	0.7	76	64	10	25.3	66
				Avg:			5.0						5.8		0.6	76	62	12	24.0	97
				Hi:			5.8						7.8		0.9	90	81	16	35.1	168
				Lo:			4.6						3.2		0.5	66	54	7	15.3	43

Soil Test Data

Report No.: 21825

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** Block C4 **Farm Code:** 186C04

Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
01A	1/17/2012	ORG	6.78	0.78	17.4	78	64	12	3.9	4.9	45	80	01A	104	96	130	216	62	38	0
01B	1/17/2012	ORG	5.85	0.87	15.3	79	65	12	3.2	5.1	41	79	01B	82	80	140	232	73	41	0
01C	1/17/2012	ORG	6.99	0.75	19.0	83	69	12	3.3	5.3	40	77	01C	59	63	122	203	60	48	0
01E	1/17/2012	ORG	6.02	0.78	21.8	83	69	13	3.6	5.7	43	62	01E	52	53	124	206	76	57	0
01M	1/17/2012	ORG	8.86	0.64	21.9	73	59	12	6.0	4.9	37	72	01M	133	112	170	282	56	54	0
02A	1/17/2012	ORG	10	0.64	25.0	77	66	10	5.8	5.0	43	72	02A	95	89	160	266	80	58	0
02B	1/17/2012	ORG	10	0.60	20.5	70	58	10	6.2	4.8	53	71	02B	93	88	141	234	68	60	0
02C	1/17/2012	ORG	9.21	0.63	24.1	82	67	13	4.4	5.3	49	68	02C	51	58	144	239	108	67	0
02E	1/17/2012	ORG	8.24	0.64	24.1	81	67	12	4.6	5.3	56	87	02E	51	58	184	305	86	56	0
02M	1/17/2012	ORG	10	0.56	22.6	72	58	12	6.4	4.8	48	73	02M	120	104	181	300	70	67	0
03A	1/17/2012	ORG	10+	0.55	24.3	77	64	11	5.6	5.1	62	115	03A	114	99	194	322	73	69	0
03B	1/17/2012	ORG	10+	0.55	23.8	75	61	12	6.0	5.0	60	103	03B	128	109	193	320	67	62	0
03C	1/17/2012	ORG	9.21	0.58	27.0	84	68	14	4.4	5.5	68	125	03C	93	80	210	349	74	69	0
03E	1/17/2012	ORG	8.86	0.68	22.8	76	62	12	5.5	5.2	63	93	03E	85	80	180	299	64	76	0
03M	1/17/2012	ORG	10	0.56	24.5	76	63	11	5.9	5.1	64	103	03M	100	91	193	320	87	67	0
04A	1/17/2012	ORG	10+	0.52	22.9	74	60	12	6.0	4.8	47	96	04A	129	110	159	264	55	78	0
04B	1/17/2012	ORG	9.59	0.58	22.1	73	60	11	6.0	4.9	48	99	04B	94	89	157	261	54	61	0
04C	1/17/2012	ORG	8.54	0.65	25.6	81	66	13	4.9	5.2	58	86	04C	79	77	189	314	75	63	0
04E	1/17/2012	ORG	8.24	0.71	22.7	79	65	12	4.8	5.3	52	88	04E	58	62	138	229	67	71	0
04M	1/17/2012	ORG	10	0.54	27.2	79	62	16	5.6	5.1	55	89	04M	97	89	225	374	64	76	0
05A	1/17/2012	ORG	10+	0.51	24.5	72	59	11	6.9	4.8	44	87	05A	118	103	173	287	64	69	0
05B	1/17/2012	ORG	10+	0.50	23.6	72	59	12	6.5	4.9	48	110	05B	119	104	196	325	63	62	0
05C	1/17/2012	ORG	8.86	0.64	22.2	72	59	11	6.3	4.9	60	79	05C	83	82	185	307	69	61	0
05E	1/17/2012	ORG	7.96	0.76	20.3	72	58	11	5.7	5.0	61	92	05E	76	78	159	264	66	56	0
05M	1/17/2012	ORG	10	0.57	25.7	74	60	13	6.6	5.0	40	83	05M	100	92	145	241	51	70	0
06A	1/17/2012	ORG	10+	0.50	24.0	68	56	10	7.8	4.7	49	84	06A	75	77	136	226	68	73	0
06B	1/17/2012	ORG	10+	0.55	22.9	73	59	12	6.2	4.8	54	81	06B	70	74	162	269	67	57	0
06C	1/17/2012	ORG	10+	0.63	22.8	73	58	13	6.2	4.9	62	95	06C	60	68	172	286	69	58	0
06E	1/17/2012	ORG	9.21	0.68	22.4	77	62	13	5.2	5.2	69	95	06E	82	78	189	314	78	58	0
06M	1/17/2012	ORG	10+	0.52	26.5	78	63	13	5.9	5.1	56	79	06M	105	94	210	349	68	65	0
07A	1/17/2012	ORG	10+	0.54	23.3	72	57	13	6.6	4.8	59	87	07A	96	90	161	267	49	55	0
07B	1/17/2012	ORG	10+	0.58	21.5	69	55	12	6.7	4.7	58	82	07B	85	83	137	227	41	70	0
07C	1/17/2012	ORG	10	0.66	19.7	66	54	11	6.6	4.8	60	83	07C	113	100	134	222	39	63	0
07E	1/17/2012	ORG	10+	0.63	20.6	68	56	10	6.5	4.9	56	93	07E	96	90	135	224	45	61	0
07M	1/17/2012	ORG	9.59	0.58	26.6	78	62	15	5.8	5.2	53	107	07M	168	130	180	299	41	66	0
08A	1/17/2012	ORG	10+	0.58	26.9	79	65	12	5.7	5.2	68	104	08A	120	101	197	327	62	59	0
08B	1/17/2012	ORG	10+	0.56	24.4	72	57	13	6.9	4.8	63	115	08B	154	125	184	305	60	53	0
08C	1/17/2012	ORG	10+	0.59	22.8	70	56	13	6.8	4.9	62	95	08C	128	109	175	291	58	46	0
08E	1/17/2012	ORG	10+	0.62	21.8	74	59	12	5.6	5.0	61	148	08E	121	105	194	322	55	60	0
08M	1/17/2012	ORG	10+	0.56	26.2	79	62	14	5.6	5.1	67	137	08M	133	110	243	403	55	57	0
09A	1/17/2012	ORG	10+	0.53	25.8	78	63	13	5.8	5.0	64	127	09A	123	106	259	430	119	58	0
09B	1/17/2012	ORG	10+	0.50	25.6	73	59	12	7.0	4.7	53	88	09B	117	102	182	302	78	61	0
09C	1/17/2012	ORG	10+	0.50	24.3	74	59	12	6.4	4.7	57	112	09C	150	122	181	300	64	55	0

Soil Test Data

Report No.: 21825

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** Block C4 **Farm Code:** 186C04

Smpl ID	Date	Soil Cls	% OM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
09D	1/17/2012	ORG	10+	0.56	23.3	76	60	13	5.6	4.9	67	135	09D	119	104	190	315	64	68	0
09E	1/17/2012	ORG	10+	0.60	23.0	74	60	12	5.9	4.9	58	125	09E	128	109	182	302	60	76	0
10A	1/17/2012	ORG	10+	0.54	25.7	79	61	15	5.4	4.9	62	116	10A	114	101	229	380	71	60	0
10B	1/17/2012	ORG	10+	0.51	24.0	73	60	11	6.4	4.6	50	96	10B	89	86	162	269	54	90	1
10C	1/17/2012	ORG	10+	0.52	25.5	77	62	13	5.8	4.9	51	101	10C	92	87	196	325	65	82	0
10D	1/17/2012	ORG	10+	0.61	23.6	76	62	12	5.6	5.0	56	119	10D	92	87	175	291	49	92	0
10E	1/17/2012	ORG	10+	0.58	22.3	73	59	12	6.0	4.8	57	93	10E	83	82	171	284	54	82	0
11A	1/17/2012	ORG	10+	0.56	25.6	76	62	12	6.2	4.9	51	99	11A	76	78	143	237	45	67	0
11B	1/17/2012	ORG	10+	0.54	26.4	78	63	13	5.8	5.1	64	112	11B	102	92	232	385	71	74	0
11C	1/17/2012	ORG	10+	0.51	26.0	78	64	13	5.7	5.1	58	108	11C	117	101	205	340	56	80	0
11D	1/17/2012	ORG	10+	0.63	21.5	69	56	11	6.6	4.8	54	111	11D	93	88	152	252	44	77	0
11E	1/17/2012	ORG	9.59	0.61	26.5	82	66	13	4.9	5.3	68	135	11E	115	97	280	465	88	57	0
12A	1/17/2012	ORG	10+	0.56	25.8	79	66	12	5.3	5.1	57	86	12A	76	76	203	337	87	76	0
12B	1/17/2012	ORG	10+	0.55	26.0	80	65	13	5.3	5.1	64	111	12B	115	100	226	375	123	81	0
12C	1/17/2012	ORG	10+	0.48	24.3	76	61	12	5.9	4.9	62	110	12C	133	112	228	378	110	98	1
12D	1/17/2012	ORG	10	0.64	21.5	74	59	13	5.6	5.0	56	81	12D	85	83	162	269	77	69	0
12E	1/17/2012	ORG	9.21	0.66	23.4	76	62	11	5.6	5.1	64	125	12E	92	86	225	374	88	57	0
13A	1/17/2012	ORG	10	0.56	24.6	75	59	13	6.2	4.9	52	94	13A	82	81	193	320	73	59	0
13B	1/17/2012	ORG	10	0.56	25.2	77	60	14	5.8	5.1	55	115	13B	88	83	207	344	80	78	0
13C	1/17/2012	ORG	10+	0.53	25.6	76	59	14	6.2	5.0	54	115	13C	81	81	204	339	86	102	1
13D	1/17/2012	ORG	10+	0.63	23.0	75	60	13	5.7	5.0	61	115	13D	121	105	209	347	85	64	0
13E	1/17/2012	ORG	10+	0.59	25.1	78	61	14	5.4	5.2	55	153	13E	96	87	228	378	89	72	0
14A	1/17/2012	ORG	10+	0.53	26.8	79	64	13	5.5	5.1	57	112	14A	93	86	244	405	84	95	1
14B	1/17/2012	ORG	10+	0.51	25.7	75	61	12	6.4	4.9	54	95	14B	85	83	188	312	59	83	0
14C	1/17/2012	ORG	10+	0.58	23.0	73	59	12	6.2	4.9	50	90	14C	75	77	169	281	57	88	0
14D	1/17/2012	ORG	10+	0.61	24.1	78	62	12	5.4	5.1	64	152	14D	94	87	217	360	62	65	0
14E	1/17/2012	ORG	10+	0.54	23.8	74	60	12	6.2	4.9	53	122	14E	81	81	210	349	63	54	0
15A	1/17/2012	ORG	10+	0.52	25.0	74	60	12	6.4	4.9	57	134	15A	100	92	258	428	68	73	0
15B	1/17/2012	ORG	10+	0.56	27.3	81	64	14	5.2	5.2	57	114	15B	98	88	267	443	69	77	0
15C	1/17/2012	ORG	10+	0.63	25.2	78	63	13	5.6	5.1	49	105	15C	79	78	306	508	87	57	0
15D	1/17/2012	ORG	10+	0.59	23.6	71	57	11	6.9	4.8	53	122	15D	122	105	178	295	58	65	0
15E	1/17/2012	ORG	10+	0.51	29.8	77	62	12	7.0	5.0	56	138	15E	123	106	253	420	63	71	0
16A	1/17/2012	ORG	9.59	0.63	35.1	90	81	7	3.6	5.8	71	130	16A	43	46	163	271	68	87	0
16B	1/17/2012	ORG	10+	0.67	25.5	79	65	11	5.4	5.3	72	161	16B	58	62	227	377	91	63	0
16C	1/17/2012	ORG	10	0.68	23.8	75	62	10	6.0	5.1	68	140	16C	67	71	226	375	82	63	0
16D	1/17/2012	ORG	8.86	0.80	21.0	75	66	7	5.2	5.2	81	103	16D	51	60	137	227	72	60	0
16E	1/17/2012	ORG	10+	0.66	25.3	76	64	10	6.0	5.2	72	132	16E	66	69	209	347	81	60	0
		Avg:		0.60	24.0	76	62	12	5.8	5.0	57	104		97		188	313	69		0.05
		Hi:		0.87	35.1	90	81	16	7.8	5.8	81	161		168		306	508	123		1
		Lo:		0.48	15.3	66	54	7	3.2	4.6	37	62		43		122	203	39		0

Soil Nutrient Needs

Report No.: 21825

Grower Name: Delbert Armstrong Farms Inc Farm Name: Block C4 Farm Code: 186C04

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
01A	1/17/2012	ORG	17.4		Corn Grain	120-160	0	0-20	01A	0	0	0	SG/SB- DC	20-40	0
01B	1/17/2012	ORG	15.3		Corn Grain	120-160	0-20	0-20	01B	0	0	0	SG/SB- DC	30-50	0
01C	1/17/2012	ORG	19.0		Corn Grain	120-160	0-20	0-20	01C	0	0	0	SG/SB- DC	30-50	0
01E	1/17/2012	ORG	21.8		Corn Grain	120-160	0-20	20-30	01E	0	0	0	SG/SB- DC	30-50	20-40
01M	1/17/2012	ORG	21.9		Corn Grain	120-160	30-Oct	0-20	01M	0	0	0	SG/SB- DC	40-60	0-20
02A	1/17/2012	ORG	25.0		Corn Grain	120-160	0-20	0-20	02A	0	0	0	SG/SB- DC	30-50	0-20
02B	1/17/2012	ORG	20.5		Corn Grain	120-160	0	0-20	02B	0	0	0	SG/SB- DC	20-30	0-20
02C	1/17/2012	ORG	24.1		Corn Grain	120-160	0	20-30	02C	0	0	0	SG/SB- DC	20-40	0-20
02E	1/17/2012	ORG	24.1		Corn Grain	120-160	0	0	02E	0	0	0	SG/SB- DC	0-20	0
02M	1/17/2012	ORG	22.6		Corn Grain	120-160	0	0-20	02M	0	0	0	SG/SB- DC	20-40	0-20
03A	1/17/2012	ORG	24.3		Corn Grain	120-160	0	0	03A	0	0	0	SG/SB- DC	0-20	0
03B	1/17/2012	ORG	23.8		Corn Grain	120-160	0	0	03B	0	0	0	SG/SB- DC	0-20	0
03C	1/17/2012	ORG	27.0		Corn Grain	120-160	0	0	03C	0	0	0	SG/SB- DC	0	0
03E	1/17/2012	ORG	22.8		Corn Grain	120-160	0	0	03E	0	0	0	SG/SB- DC	0-20	0
03M	1/17/2012	ORG	24.5		Corn Grain	120-160	0	0	03M	0	0	0	SG/SB- DC	0-20	0
04A	1/17/2012	ORG	22.9		Corn Grain	120-160	0	0	04A	0	0	0	SG/SB- DC	20-40	0
04B	1/17/2012	ORG	22.1		Corn Grain	120-160	0	0	04B	0	0	0	SG/SB- DC	20-40	0
04C	1/17/2012	ORG	25.6		Corn Grain	120-160	0	0	04C	0	0	0	SG/SB- DC	0-20	0
04E	1/17/2012	ORG	22.7		Corn Grain	120-160	0	0	04E	0	0	0	SG/SB- DC	20-30	0
04M	1/17/2012	ORG	27.2		Corn Grain	120-160	0	0	04M	0	0	0	SG/SB- DC	20-30	0
05A	1/17/2012	ORG	24.5		Corn Grain	120-160	0	0	05A	0	0	0	SG/SB- DC	30-50	0
05B	1/17/2012	ORG	23.6		Corn Grain	120-160	0	0	05B	0	0	0	SG/SB- DC	20-40	0
05C	1/17/2012	ORG	22.2		Corn Grain	120-160	0	0-20	05C	0	0	0	SG/SB- DC	0-20	0
05E	1/17/2012	ORG	20.3		Corn Grain	120-160	0	0	05E	0	0	0	SG/SB- DC	0-20	0
05M	1/17/2012	ORG	25.7		Corn Grain	120-160	0-20	0-20	05M	0	0	0	SG/SB- DC	30-50	0
06A	1/17/2012	ORG	24.0		Corn Grain	120-160	0	0-20	06A	0	0	0	SG/SB- DC	20-40	0
06B	1/17/2012	ORG	22.9		Corn Grain	120-160	0	0-20	06B	0	0	0	SG/SB- DC	20-30	0
06C	1/17/2012	ORG	22.8		Corn Grain	120-160	0	0	06C	0	0	0	SG/SB- DC	0-20	0
06E	1/17/2012	ORG	22.4		Corn Grain	120-160	0	0	06E	0	0	0	SG/SB- DC	0	0
06M	1/17/2012	ORG	26.5		Corn Grain	120-160	0	0-20	06M	0	0	0	SG/SB- DC	0-20	0
07A	1/17/2012	ORG	23.3		Corn Grain	120-160	0	0	07A	0	0	0	SG/SB- DC	0-20	0
07B	1/17/2012	ORG	21.5		Corn Grain	120-160	0	0-20	07B	0	0	0	SG/SB- DC	0-20	0
07C	1/17/2012	ORG	19.7		Corn Grain	120-160	0	0-20	07C	0	0	0	SG/SB- DC	0-20	0
07E	1/17/2012	ORG	20.6		Corn Grain	120-160	0	0	07E	0	0	0	SG/SB- DC	0-20	0
07M	1/17/2012	ORG	26.6		Corn Grain	120-160	0	0	07M	0	0	0	SG/SB- DC	20-30	0
08A	1/17/2012	ORG	26.9		Corn Grain	120-160	0	0	08A	0	0	0	SG/SB- DC	0	0
08B	1/17/2012	ORG	24.4		Corn Grain	120-160	0	0	08B	0	0	0	SG/SB- DC	0-20	0
08C	1/17/2012	ORG	22.8		Corn Grain	120-160	0	0	08C	0	0	0	SG/SB- DC	0-20	0
08E	1/17/2012	ORG	21.8		Corn Grain	120-160	0	0	08E	0	0	0	SG/SB- DC	0-20	0
08M	1/17/2012	ORG	26.2		Corn Grain	120-160	0	0	08M	0	0	0	SG/SB- DC	0	0
09A	1/17/2012	ORG	25.8		Corn Grain	120-160	0	0	09A	0	0	0	SG/SB- DC	0-20	0
09B	1/17/2012	ORG	25.6		Corn Grain	120-160	0	0	09B	0	0	0	SG/SB- DC	20-30	0
09C	1/17/2012	ORG	24.3		Corn Grain	120-160	0	0	09C	0	0	0	SG/SB- DC	0-20	0

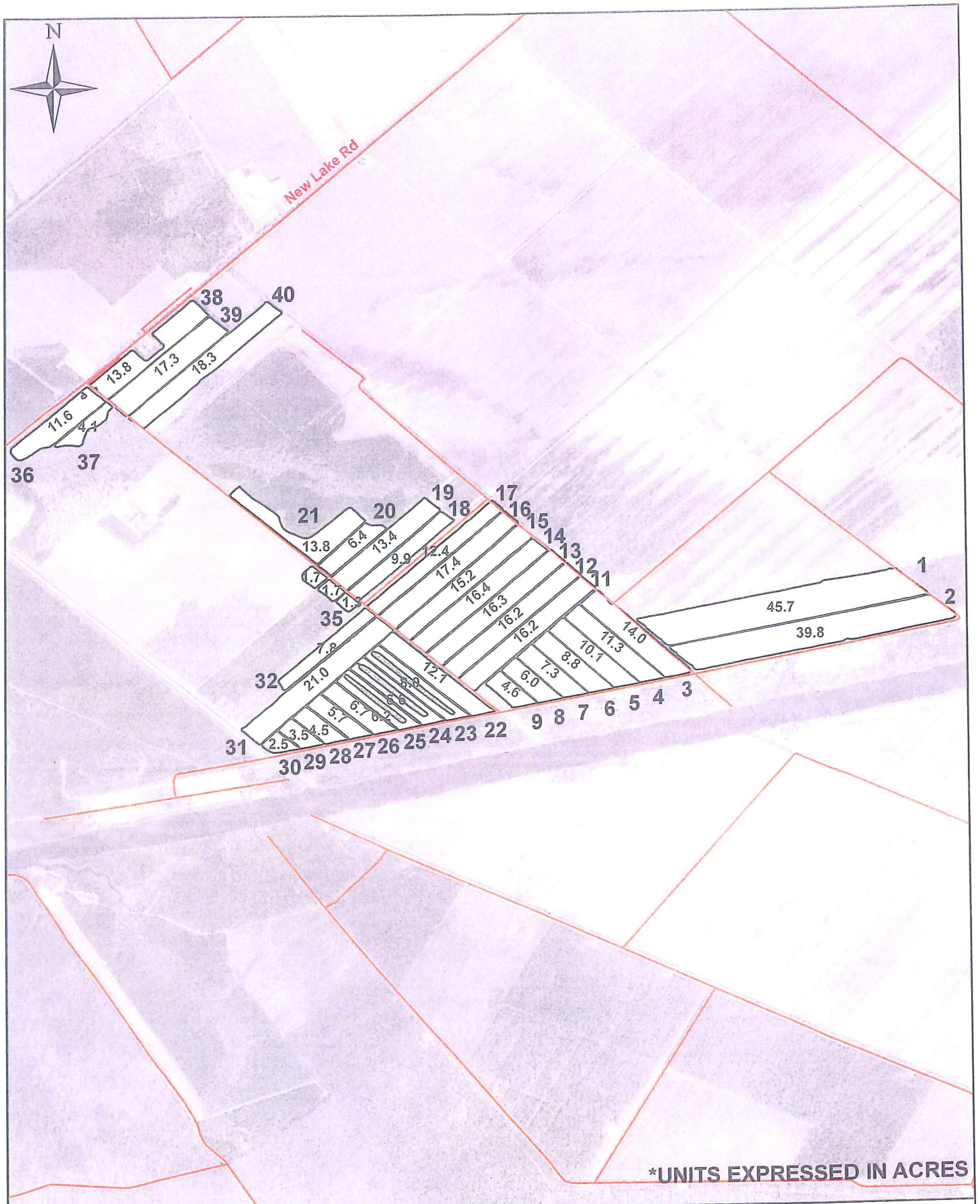
Soil Nutrient Needs

Report No.: 21825

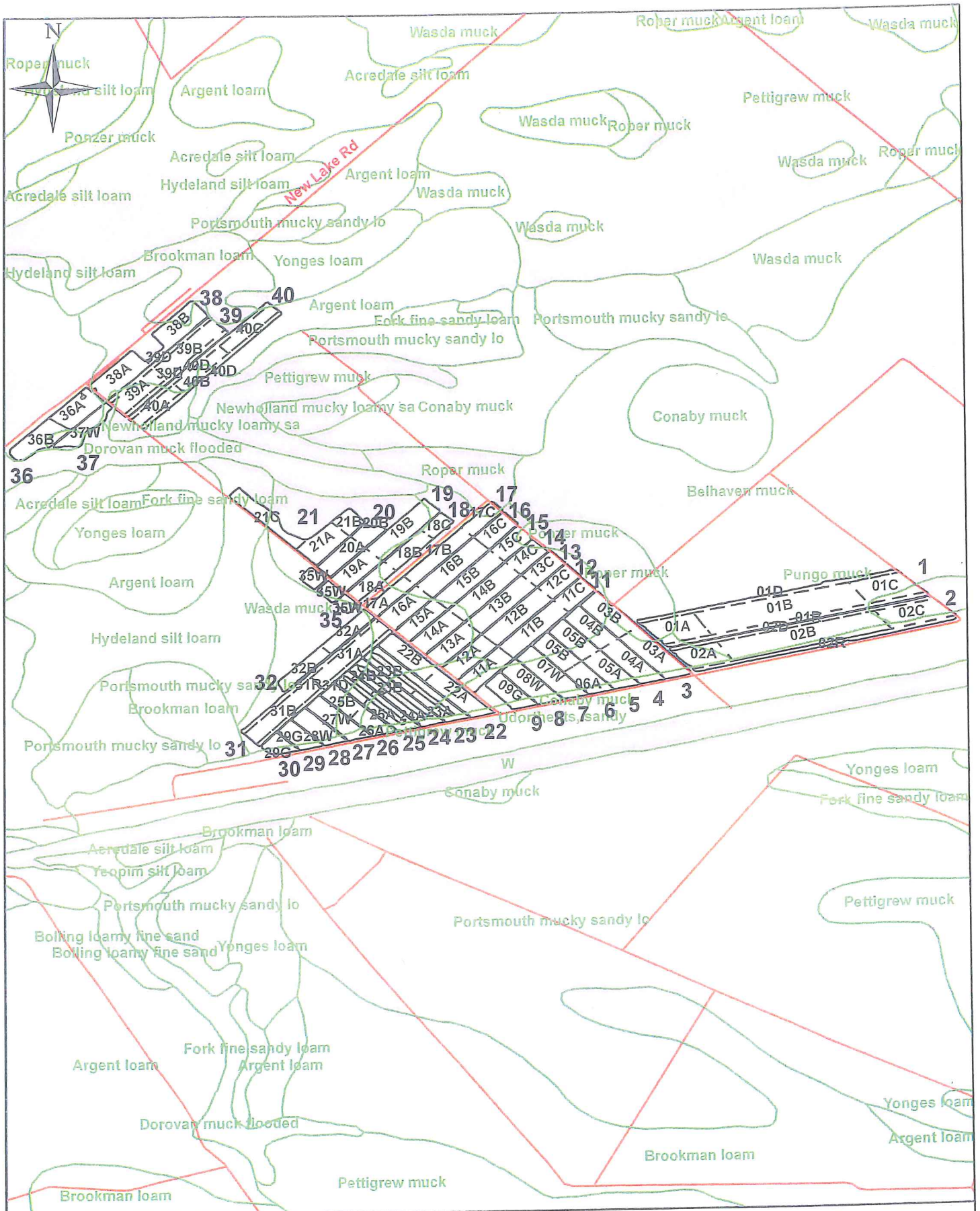
Grower Name: Delbert Armstrong Farms Inc Farm Name: Block C4 Farm Code: 186C04

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
09D	1/17/2012	ORG	23.3		Corn Grain	120-160	0	0	09D	0	0	0	SG/SB- DC	0	0
09E	1/17/2012	ORG	23.0		Corn Grain	120-160	0	0	09E	0	0	0	SG/SB- DC	0-20	0
10A	1/17/2012	ORG	25.7		Corn Grain	120-160	0	0	10A	0	0	0	SG/SB- DC	0-20	0
10B	1/17/2012	ORG	24.0		Corn Grain	120-160	0	0	10B	0	0	0	SG/SB- DC	20-40	0
10C	1/17/2012	ORG	25.5		Corn Grain	120-160	0	0	10C	0	0	0	SG/SB- DC	20-30	0
10D	1/17/2012	ORG	23.6		Corn Grain	120-160	0	0	10D	0	0	0	SG/SB- DC	0-20	0
10E	1/17/2012	ORG	22.3		Corn Grain	120-160	0	0	10E	0	0	0	SG/SB- DC	0-20	0
11A	1/17/2012	ORG	25.6		Corn Grain	120-160	0	0	11A	0	0	0	SG/SB- DC	20-30	0
11B	1/17/2012	ORG	26.4		Corn Grain	120-160	0	0	11B	0	0	0	SG/SB- DC	0-20	0
11C	1/17/2012	ORG	26.0		Corn Grain	120-160	0	0	11C	0	0	0	SG/SB- DC	0-20	0
11D	1/17/2012	ORG	21.5		Corn Grain	120-160	0	0	11D	0	0	0	SG/SB- DC	20-30	0
11E	1/17/2012	ORG	26.5		Corn Grain	120-160	0	0	11E	0	0	0	SG/SB- DC	0	0
12A	1/17/2012	ORG	25.8		Corn Grain	120-160	0	0	12A	0	0	0	SG/SB- DC	0-20	0
12B	1/17/2012	ORG	26.0		Corn Grain	120-160	0	0	12B	0	0	0	SG/SB- DC	0-20	0
12C	1/17/2012	ORG	24.3		Corn Grain	120-160	0	0	12C	0	0	0	SG/SB- DC	0-20	0
12D	1/17/2012	ORG	21.5		Corn Grain	120-160	0	0-20	12D	0	0	0	SG/SB- DC	0-20	0
12E	1/17/2012	ORG	23.4		Corn Grain	120-160	0	0	12E	0	0	0	SG/SB- DC	0-20	0
13A	1/17/2012	ORG	24.6		Corn Grain	120-160	0	0	13A	0	0	0	SG/SB- DC	20-30	0
13B	1/17/2012	ORG	25.2		Corn Grain	120-160	0	0	13B	0	0	0	SG/SB- DC	20-30	0
13C	1/17/2012	ORG	25.6		Corn Grain	120-160	0	0	13C	0	0	0	SG/SB- DC	20-30	0
13D	1/17/2012	ORG	23.0		Corn Grain	120-160	0	0	13D	0	0	0	SG/SB- DC	0-20	0
13E	1/17/2012	ORG	25.1		Corn Grain	120-160	0	0	13E	0	0	0	SG/SB- DC	20-30	0
14A	1/17/2012	ORG	26.8		Corn Grain	120-160	0	0	14A	0	0	0	SG/SB- DC	0-20	0
14B	1/17/2012	ORG	25.7		Corn Grain	120-160	0	0	14B	0	0	0	SG/SB- DC	20-30	0
14C	1/17/2012	ORG	23.0		Corn Grain	120-160	0	0	14C	0	0	0	SG/SB- DC	20-40	0
14D	1/17/2012	ORG	24.1		Corn Grain	120-160	0	0	14D	0	0	0	SG/SB- DC	0-20	0
14E	1/17/2012	ORG	23.8		Corn Grain	120-160	0	0	14E	0	0	0	SG/SB- DC	20-30	0
15A	1/17/2012	ORG	25.0		Corn Grain	120-160	0	0	15A	0	0	0	SG/SB- DC	0-20	0
15B	1/17/2012	ORG	27.3		Corn Grain	120-160	0	0	15B	0	0	0	SG/SB- DC	0-20	0
15C	1/17/2012	ORG	25.2		Corn Grain	120-160	0	0	15C	0	0	0	SG/SB- DC	20-40	0
15D	1/17/2012	ORG	23.6		Corn Grain	120-160	0	0	15D	0	0	0	SG/SB- DC	20-30	0
15E	1/17/2012	ORG	29.8		Corn Grain	120-160	0	0	15E	0	0	0	SG/SB- DC	0-20	0
16A	1/17/2012	ORG	35.1		Corn Grain	120-160	0	0	16A	0	0	0	SG/SB- DC	0	0
16B	1/17/2012	ORG	25.5		Corn Grain	120-160	0	0	16B	0	0	0	SG/SB- DC	0	0
16C	1/17/2012	ORG	23.8		Corn Grain	120-160	0	0	16C	0	0	0	SG/SB- DC	0	0
16D	1/17/2012	ORG	21.0		Corn Grain	120-160	0	0	16D	0	0	0	SG/SB- DC	0	0
16E	1/17/2012	ORG	25.3		Corn Grain	120-160	0	0	16E	0	0	0	SG/SB- DC	0	0

Avg: 24.0
Hi: 35.1
Lo: 15.3

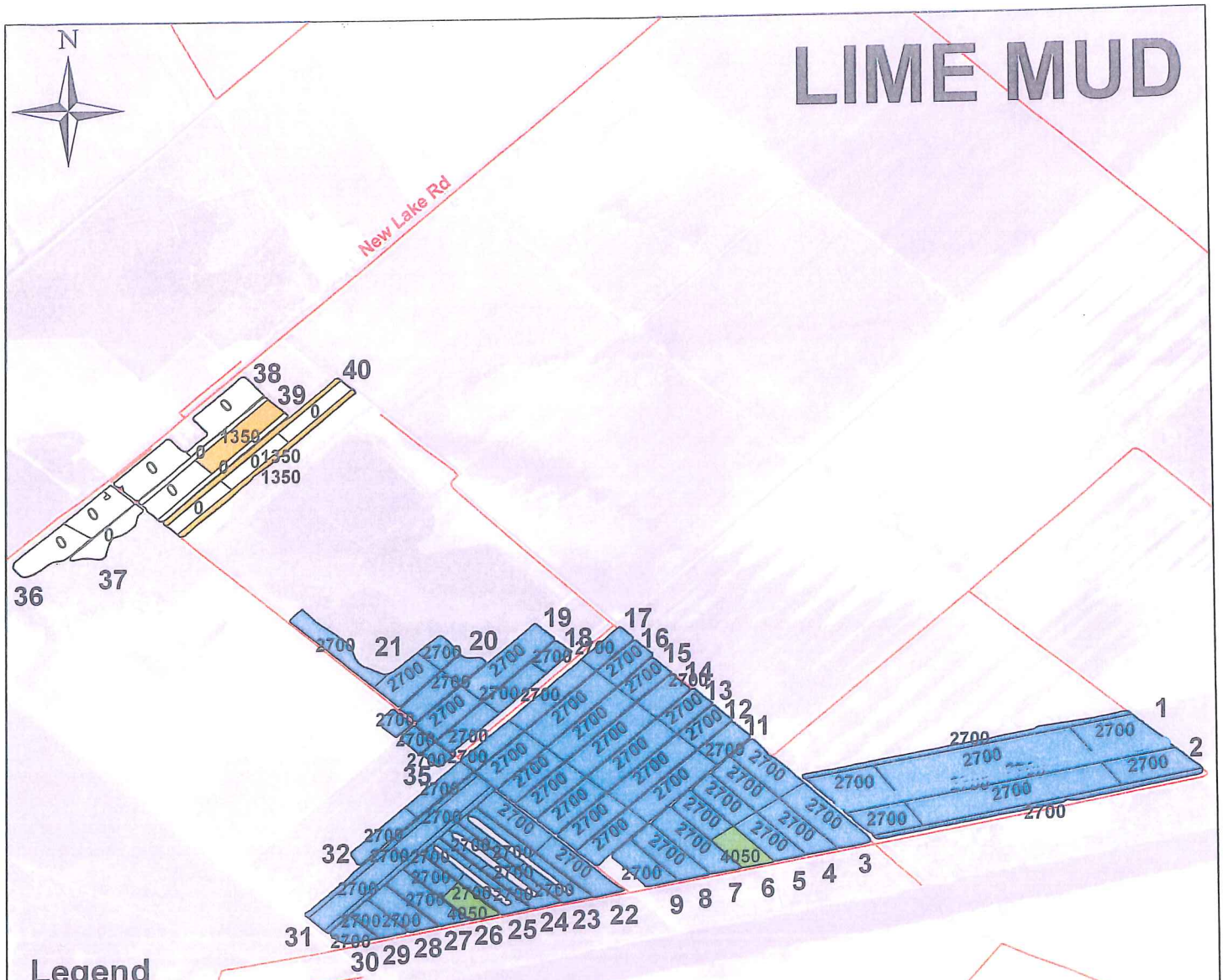


Scale: 1 inch equals 2,154.727547 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 FARM ACREAGE MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		WAGMAN RD. FARM
Date: FEBRUARY 2012		TOTAL ACREAGE: 455.4



Scale: 1 inch equals 2,154.727547 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 SOIL SAMPLE CODE MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		WAGMAN RD. FARM
Date: FEBRUARY 2012		TOTAL ACREAGE: 455.4

LIME MUD



Legend

LIME MUD_RICH WAGMAN_ARMSTRONG_WGS13

LIME_MUD

- 0
- 1350
- 2700
- 4050

*UNITS EXPRESSED IN POUNDS

2012: CORN
2013: 16, 31 CORN
3-9,11-15,17 RAPE
1-2, 18-30, 36-40 SOYB

EST. TOTAL LIME MUD: 541.42 TONS
ACRES SPREAD: 404.52

Scale: 1 inch equals 2,154.727547 feet	TAS TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 LIME MUD APPLICATION MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		WAGMAN RD. FARM
Date: FEBRUARY 2013		TOTAL ACREAGE: 455.4

Soil Lime Report

Report No.: SL010249 **Lime Rec. Date:** 12/12/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Last Crop	Mo.	Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type
01A	10/26/2012		0	0	0	ORG	4.6	SG/SB- DC	1.1	1.0	Calc
01B	10/26/2012		0	0	0	ORG	4.8	SG/SB- DC	0.7	0.5	Calc
01C	10/26/2012		0	0	0	ORG	4.5	SG/SB- DC	1.6	1.5	Calc
01D	10/26/2012		0	0	0	ORG	4.7	SG/SB- DC	0.8	1.0	Calc
01R	10/26/2012		0	0	0	ORG	4.8	SG/SB- DC	0.8	1.0	Calc
02A	10/26/2012		0	0	0	ORG	4.8	SG/SB- DC	0.8	1.0	Calc
02B	10/26/2012		0	0	0	ORG	4.7	SG/SB- DC	1	1.0	Calc
02C	10/26/2012		0	0	0	ORG	5.2	SG/SB- DC	0	0.0	Calc
02D	10/26/2012		0	0	0	ORG	4.7	SG/SB- DC	1.3	1.5	Calc
02R	10/26/2012		0	0	0	MIN	7.0	SG/SB- DC	0	0.0	Calc
03A	10/26/2012		0	0	0	ORG	5.0	SG/SB- DC	0	0.0	Calc
03B	10/26/2012		0	0	0	ORG	4.7	SG/SB- DC	0.9	1.0	Calc
04A	10/26/2012		0	0	0	ORG	4.6	Canola/Rap	1.1	1.0	Calc
04B	10/26/2012		0	0	0	ORG	4.7	Canola/Rap	1.1	1.0	Calc
05A	10/26/2012		0	0	0	M-O	5.2	Canola/Rap	0.7	0.5	Calc
05B	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
06A	10/26/2012		0	0	0	MIN	5.2	Canola/Rap	1.8	2.0	Calc
07W	10/26/2012		0	0	0	M-O	5.4	Canola/Rap	0.3	0.5	Calc
08W	10/26/2012		0	0	0	MIN	5.6	Canola/Rap	1	1.0	Calc
09G	10/26/2012		0	0	0	MIN	5.8	Canola/Rap	0.5	0.5	Calc
11A	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0	0.0	Calc
11B	10/26/2012		0	0	0	ORG	4.8	Canola/Rap	0.6	0.5	Calc
11C	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0.3	0.5	Calc
12A	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0.4	0.5	Calc
12B	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0.4	0.5	Calc
12C	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
13A	10/26/2012		0	0	0	ORG	5.1	Canola/Rap	0	0.0	Calc
13B	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
13C	10/26/2012		0	0	0	ORG	5.1	Canola/Rap	0	0.0	Calc
14A	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
14B	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0	0.0	Calc
14C	10/26/2012		0	0	0	ORG	5.1	Canola/Rap	0	0.0	Calc
15A	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
15B	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0	0.0	Calc
15C	10/26/2012		0	0	0	ORG	5.1	Canola/Rap	0	0.0	Calc
16A	10/26/2012		0	0	0	ORG	5.1	Canola/Rap	0	0.0	Calc
16B	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
16C	10/26/2012		0	0	0	ORG	5.1	Canola/Rap	0	0.0	Calc
17A	10/26/2012		0	0	0	ORG	4.9	Canola/Rap	0.3	0.5	Calc
17B	10/26/2012		0	0	0	ORG	5.0	Canola/Rap	0	0.0	Calc
17C	10/26/2012		0	0	0	ORG	5.4	Canola/Rap	0	0.0	Calc

Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
01A	6.2	9.21	0.8	59	41	15	15.3	78
01B	5.9	9.21	0.6	70	49	19	19.5	194
01C	6.7	9.21	0.6	66	47	17	19.5	134
01D	5.9	9.21	0.7	68	48	18	18.1	117
01R	6.1	8.54	0.6	67	48	17	18.3	105
02A	6.2	9.59	0.8	63	45	16	16.8	48
02B	6.1	10	0.7	66	47	17	18.0	94
02C	4.8	5.69	0.8	76	56	18	19.9	96
02D	7.4	10	0.7	61	45	15	19.3	132
02R	0.3	1.67	1.2	98	81	15	14.5	148
03A	5.0	5.53	0.9	74	53	18	18.9	85
03B	6.3	10	0.7	67	47	17	19.3	125
04A	5.8	8.86	0.8	63	47	14	15.9	89
04B	6.6	10	0.7	64	46	14	18.4	116
05A	3.7	4.09	0.8	79	59	17	18.0	95
05B	4.6	5.85	0.8	73	55	16	17.4	62
06A	3.2	3.1	0.9	81	60	18	17.0	79
07W	3.5	4.32	0.9	81	59	19	18.3	67
08W	2.4	3.19	1.0	85	63	18	15.6	66
09G	2.0	2.68	1.0	88	64	19	17.3	80
11A	5.6	7.96	0.8	66	47	15	16.1	61
11B	5.9	10	0.7	66	49	13	17.1	79
11C	5.0	9.59	0.8	71	53	15	17.6	109
12A	6.3	9.21	0.7	66	48	15	18.4	60
12B	5.4	10	0.7	68	51	14	17.2	72
12C	5.1	10	0.7	74	55	16	19.4	102
13A	4.9	8.54	0.7	71	54	14	17.0	87
13B	5.1	9.21	0.7	71	54	13	17.6	80
13C	4.7	10	0.7	77	58	14	20.0	127
14A	5.1	8.54	0.8	68	51	13	15.7	80
14B	6.4	10	0.7	67	50	13	19.3	113
14C	6.0	10	0.7	72	54	15	21.6	145
15A	5.8	9.21	0.8	65	50	10	16.5	95
15B	6.4	10	0.7	65	52	9	18.5	86
15C	6.0	10	0.7	72	58	11	21.2	123
16A	6.0	9.59	0.7	65	51	9	16.8	143
16B	5.9	10	0.6	69	56	9	19.2	107
16C	4.8	10	0.7	75	60	11	18.9	143
17A	5.6	10	0.7	62	49	10	14.5	103
17B	5.8	10	0.7	65	50	11	16.8	103
17C	4.6	9.21	0.7	77	58	16	20.1	101

Soil Lime Report

Report No.: SL010249 **Lime Rec. Date:** 12/12/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Last Crop	Mo. Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type	Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
				Avg:		5.0						5.2		0.8	71	53	15	17.9	101
				Hi:		7.0						7.4		1.2	98	81	19	21.6	194
				Lo:		4.5						0.3		0.6	59	41	9	14.5	48

Soil Lime Report

Report No.: SL011157 **Lime Rec. Date:** 12/12/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Last Crop	Mo.	Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type	Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
18A	11/1/2012		0	0	0	ORG	4.8	SG/SB- DC	0.6	0.5	Calc	18A	5.1	9.21	0.9	58	45	10	12.1	104
18B	11/1/2012		0	0	0	ORG	4.7	SG/SB- DC	0.8	1.0	Calc	18B	5.6	9.59	0.8	61	48	10	14.4	102
18C	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0	0.0	Calc	18C	5.2	10	0.7	72	56	12	18.5	144
19A	11/1/2012		0	0	0	ORG	5.1	SG/SB- DC	0	0.0	Calc	19A	4.6	8.54	0.8	68	54	10	14.7	97
19B	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0.3	0.5	Calc	19B	5.3	10	0.7	68	52	12	16.7	124
20A	11/1/2012		0	0	0	ORG	5.0	SG/SB- DC	0	0.0	Calc	20A	5.1	7.96	0.8	57	42	11	11.9	86
20B	11/1/2012		0	0	0	ORG	5.3	SG/SB- DC	0	0.0	Calc	20B	4.0	6.99	0.8	72	52	15	14.1	121
21A	11/1/2012		0	0	0	ORG	5.3	SG/SB- DC	0	0.0	Calc	21A	4.3	7.21	0.8	66	47	14	12.6	88
21B	11/1/2012		0	0	0	ORG	5.1	SG/SB- DC	0	0.0	Calc	21B	5.0	7.7	0.8	61	44	14	13.0	118
21C	11/1/2012		0	0	0	M-O	5.4	SG/SB- DC	0.4	0.5	Calc	21C	3.6	5.23	0.8	67	47	15	10.9	91
22A	11/1/2012		0	0	0	MIN	5.1	SG/SB- DC	2.2	2.0	Calc	22A	3.6	3.37	1.0	73	52	18	13.4	57
22B	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0.3	0.5	Calc	22B	4.8	7.7	0.8	65	48	13	13.9	69
23A	11/1/2012		0	0	0	M-O	5.1	SG/SB- DC	1	1.0	Calc	23A	4.0	4.69	0.9	72	52	17	14.4	70
23B	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0.3	0.5	Calc	23B	4.6	8.54	0.8	61	44	13	11.6	87
24A	11/1/2012		0	0	0	M-O	5.0	SG/SB- DC	1.1	1.0	Calc	24A	3.7	4.95	0.9	69	51	15	12.0	59
24B	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0	0.0	Calc	24B	4.6	7.21	0.9	61	45	13	11.9	63
25A	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0	0.0	Calc	25A	4.2	5.85	0.9	66	50	14	12.3	87
25B	11/1/2012		0	0	0	ORG	5.0	SG/SB- DC	0	0.0	Calc	25B	4.0	6.78	0.9	64	48	13	11.0	86
26A	11/1/2012		0	0	0	MIN	5.0	SG/SB- DC	2	2.0	Calc	26A	3.2	3.28	0.9	75	56	15	12.9	110
26B	11/1/2012		0	0	0	M-O	5.0	SG/SB- DC	1.2	1.0	Calc	26B	4.2	5.23	0.9	68	50	14	13.3	78
27W	11/1/2012		0	0	0	M-O	5.3	SG/SB- DC	0.6	0.5	Calc	27W	3.2	3.77	0.9	76	58	15	13.7	66
28W	11/1/2012		0	0	0	MIN	5.4	SG/SB- DC	1.4	1.5	Calc	28W	2.8	2.92	1.0	79	61	16	13.3	71
29G	11/1/2012		0	0	0	MIN	5.6	SG/SB- DC	1	1.0	Calc	29G	2.4	2.6	1.0	82	63	16	13.3	74
31A	11/1/2012		0	0	0	ORG	5.0	SG/SB- DC	0	0.0	Calc	31A	4.0	6.38	0.9	64	51	10	11.3	73
31B	11/1/2012		0	0	0	M-O	5.0	SG/SB- DC	1.2	1.0	Calc	31B	3.7	4.44	1.0	64	50	10	10.3	64
31D	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0.3	0.5	Calc	31D	4.2	5.53	0.9	55	42	9	9.3	51
31R	11/1/2012		0	0	0	ORG	5.0	SG/SB- DC	0	0.0	Calc	31R	4.0	6.2	0.9	57	43	9	9.3	65
32A	11/1/2012		0	0	0	ORG	5.0	SG/SB- DC	0	0.0	Calc	32A	4.8	6.99	0.8	57	43	10	11.0	97
32B	11/1/2012		0	0	0	ORG	4.9	SG/SB- DC	0.3	0.5	Calc	32B	4.4	5.85	0.8	59	44	11	10.7	77
35W	11/1/2012		0	0	0	ORG	5.1	SG/SB- DC	0	0.0	Calc	35W	3.9	6.78	0.9	56	44	9	8.9	65
36A	11/1/2012		0	0	0	MIN	5.6	SG/SB- DC	0.6	0.5	Calc	36A	1.5	1.25	1.1	81	59	18	7.7	66
36B	11/1/2012		0	0	0	MIN	5.8	SG/SB- DC	0.4	0.5	Calc	36B	1.6	0.86	1.1	85	56	26	11.2	67
37W	11/1/2012		0	0	0	MIN	6.0	SG/SB- DC	0	0.0	Calc	37W	1.2	0.92	1.2	86	61	23	8.4	76
38A	11/1/2012		0	0	0	MIN	6.0	SG/SB- DC	0	0.0	Calc	38A	1.4	0.81	1.1	89	65	22	12.5	75
38B	11/1/2012		0	0	0	MIN	5.8	SG/SB- DC	0.6	0.5	Calc	38B	2.1	2.6	1.0	83	60	20	12.5	81
39A	11/1/2012		0	0	0	MIN	5.6	SG/SB- DC	0.6	0.5	Calc	39A	1.6	1.49	1.1	82	62	17	9.4	64
39B	11/1/2012		0	0	0	MIN	5.6	SG/SB- DC	0.8	1.0	Calc	39B	2.1	1.8	1.1	83	61	19	12.6	71
39D	11/1/2012		0	0	0	MIN	5.9	SG/SB- DC	0	0.0	Calc	39D	1.8	1.67	1.1	88	62	23	14.5	93
40A	11/1/2012		0	0	0	MIN	5.7	SG/SB- DC	0.6	0.5	Calc	40A	1.8	1.74	1.2	78	60	15	8.6	66
40B	11/1/2012		0	0	0	MIN	5.8	SG/SB- DC	0.5	0.5	Calc	40B	1.7	1.37	1.1	85	62	20	11.3	70
40C	11/1/2012		0	0	0	MIN	5.7	SG/SB- DC	0.7	0.5	Calc	40C	2.2	2.15	1.0	83	61	19	13.2	63
40D	11/1/2012		0	0	0	MIN	5.5	SG/SB- DC	0.9	1.0	Calc	40D	2.0	1.43	1.1	79	56	19	9.9	49

Wednesday, June 26, 2013

Soil Lime Report

Report No.: SL011157 **Lime Rec. Date:** 12/12/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Last Crop	Mo. Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type	Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mol
				Avg:		5.3						3.5		0.9	71	53	15	12.1	81
				Hi:		6.0						5.6		1.2	89	65	26	18.5	144
				Lo:		4.7						1.2		0.7	55	42	9	7.7	49

Soil Test Data

Report No.: SL010249

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
01A	10/26/2012	ORG	9.21	0.78	15.3	59	41	15	6.2	4.6	49	94	01A	78	57	172	286	51	53	34
01B	10/26/2012	ORG	9.21	0.61	19.5	70	49	19	5.9	4.8	34	72	01B	194	126	237	393	49	63	44
01C	10/26/2012	ORG	9.21	0.56	19.5	66	47	17	6.7	4.5	36	63	01C	134	90	260	432	72	68	44
01D	10/26/2012	ORG	9.21	0.66	18.1	68	48	18	5.9	4.7	35	68	01D	117	80	243	403	62	54	43
01R	10/26/2012	ORG	8.54	0.61	18.3	67	48	17	6.1	4.8	33	62	01R	105	73	210	349	59	53	44
02A	10/26/2012	ORG	9.59	0.79	16.8	63	45	16	6.2	4.8	26	66	02A	48	39	176	292	92	50	36
02B	10/26/2012	ORG	10	0.71	18.0	66	47	17	6.1	4.7	21	59	02B	94	66	193	320	37	69	52
02C	10/26/2012	ORG	5.69	0.83	19.9	76	56	18	4.8	5.2	25	70	02C	96	68	235	390	25	71	44
02D	10/26/2012	ORG	10	0.69	19.3	61	45	15	7.4	4.7	20	66	02D	132	89	179	297	21	70	39
02R	10/26/2012	MIN	1.67	1.20	14.5	98	81	15	0.3	7.0	93	47	02R	148	84	202	202	62	47	25
03A	10/26/2012	ORG	5.53	0.89	18.9	74	53	18	5.0	5.0	39	106	03A	85	61	210	349	42	74	41
03B	10/26/2012	ORG	10	0.73	19.3	67	47	17	6.3	4.7	38	110	03B	125	85	210	349	53	77	43
04A	10/26/2012	ORG	8.86	0.83	15.9	63	47	14	5.8	4.6	23	100	04A	89	70	151	251	27	104	45
04B	10/26/2012	ORG	10	0.69	18.4	64	46	14	6.6	4.7	34	136	04B	116	87	196	325	53	103	49
05A	10/26/2012	M-O	4.09	0.84	18.0	79	59	17	3.7	5.2	31	124	05A	95	74	189	236	35	89	44
05B	10/26/2012	ORG	5.85	0.81	17.4	73	55	16	4.6	5.0	31	109	05B	62	54	170	282	58	75	39
06A	10/26/2012	MIN	3.1	0.89	17.0	81	60	18	3.2	5.2	23	124	06A	79	64	169	169	40	99	44
07W	10/26/2012	M-O	4.32	0.90	18.3	81	59	19	3.5	5.4	28	104	07W	67	57	163	204	54	76	31
08W	10/26/2012	MIN	3.19	0.96	15.6	85	63	18	2.4	5.6	40	129	08W	66	57	140	140	119	65	33
09G	10/26/2012	MIN	2.68	0.98	17.3	88	64	19	2.0	5.8	45	178	09G	80	65	206	206	142	109	44
11A	10/26/2012	ORG	7.96	0.83	16.1	66	47	15	5.6	4.9	34	123	11A	61	54	122	203	105	87	42
11B	10/26/2012	ORG	10	0.68	17.1	66	49	13	5.9	4.8	42	135	11B	79	64	160	266	84	93	49
11C	10/26/2012	ORG	9.59	0.76	17.6	71	53	15	5.0	4.9	48	140	11C	109	82	169	281	69	97	47
12A	10/26/2012	ORG	9.21	0.74	18.4	66	48	15	6.3	4.9	39	126	12A	60	53	162	269	87	90	45
12B	10/26/2012	ORG	10	0.68	17.2	68	51	14	5.4	4.9	46	107	12B	72	60	183	304	84	80	47
12C	10/26/2012	ORG	10	0.70	19.4	74	55	16	5.1	5.0	44	127	12C	102	78	206	342	85	85	51
13A	10/26/2012	ORG	8.54	0.73	17.0	71	54	14	4.9	5.1	36	124	13A	87	69	147	244	82	82	50
13B	10/26/2012	ORG	9.21	0.74	17.6	71	54	13	5.1	5.0	42	142	13B	80	65	179	297	81	94	45
13C	10/26/2012	ORG	10	0.71	20.0	77	58	14	4.7	5.1	62	201	13C	127	93	241	400	97	113	60
14A	10/26/2012	ORG	8.54	0.81	15.7	68	51	13	5.1	5.0	51	117	14A	80	65	211	350	110	86	51
14B	10/26/2012	ORG	10	0.71	19.3	67	50	13	6.4	4.9	44	144	14B	113	85	235	390	97	100	64
14C	10/26/2012	ORG	10	0.71	21.6	72	54	15	6.0	5.1	60	140	14C	145	104	269	447	103	92	63
15A	10/26/2012	ORG	9.21	0.78	16.5	65	50	10	5.8	5.0	72	152	15A	95	74	237	393	108	109	60
15B	10/26/2012	ORG	10	0.66	18.5	65	52	9	6.4	4.9	46	143	15B	86	69	212	352	77	88	59
15C	10/26/2012	ORG	10	0.68	21.2	72	58	11	6.0	5.1	54	138	15C	123	91	237	393	96	95	66
16A	10/26/2012	ORG	9.59	0.74	16.8	65	51	9	6.0	5.1	51	152	16A	143	103	213	354	95	82	44
16B	10/26/2012	ORG	10	0.65	19.2	69	56	9	5.9	5.0	58	154	16B	107	81	231	383	125	93	48
16C	10/26/2012	ORG	10	0.66	18.9	75	60	11	4.8	5.1	59	140	16C	143	103	208	345	87	92	60
17A	10/26/2012	ORG	10	0.73	14.5	62	49	10	5.6	4.9	55	105	17A	103	79	184	305	75	81	46
17B	10/26/2012	ORG	10	0.71	16.8	65	50	11	5.8	5.0	55	135	17B	103	79	212	352	86	71	44
17C	10/26/2012	ORG	9.21	0.70	20.1	77	58	16	4.6	5.4	56	92	17C	101	78	182	302	77	62	58

Soil Test Data

Report No.: SL010249

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
		Avg:		0.76	17.9	71	53	15	5.2	5.0	43	115		101		198	313	75		47
		Hi:		1.20	21.6	98	81	19	7.4	7.0	93	201		194		269	447	142		66
		Lo:		0.56	14.5	59	41	9	0.3	4.5	20	47		48		122	140	21		25

Soil Test Data

Report No.: SL011157

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
18A	11/1/2012	ORG	9.21	0.88	12.1	58	45	10	5.1	4.8	52	85	18A	104	72	206	342	137	92	43
18B	11/1/2012	ORG	9.59	0.78	14.4	61	48	10	5.6	4.7	51	116	18B	102	71	241	400	94	109	58
18C	11/1/2012	ORG	10	0.66	18.5	72	56	12	5.2	4.9	63	154	18C	144	96	305	506	101	139	74
19A	11/1/2012	ORG	8.54	0.84	14.7	68	54	10	4.6	5.1	60	137	19A	97	68	311	516	141	131	59
19B	11/1/2012	ORG	10	0.66	16.7	68	52	12	5.3	4.9	60	145	19B	124	84	314	521	112	121	76
20A	11/1/2012	ORG	7.96	0.83	11.9	57	42	11	5.1	5.0	59	114	20A	86	62	196	325	69	112	54
20B	11/1/2012	ORG	6.99	0.81	14.1	72	52	15	4.0	5.3	70	147	20B	121	83	185	307	66	116	62
21A	11/1/2012	ORG	7.21	0.79	12.6	66	47	14	4.3	5.3	60	123	21A	88	63	163	271	70	86	53
21B	11/1/2012	ORG	7.7	0.75	13.0	61	44	14	5.0	5.1	77	89	21B	118	81	208	345	81	76	47
21C	11/1/2012	M-O	5.23	0.83	10.9	67	47	15	3.6	5.4	77	101	21C	91	65	116	145	91	85	56
22A	11/1/2012	MIN	3.37	0.96	13.4	73	52	18	3.6	5.1	52	100	22A	57	44	137	137	89	97	46
22B	11/1/2012	ORG	7.7	0.84	13.9	65	48	13	4.8	4.9	44	116	22B	69	51	191	317	108	106	53
23A	11/1/2012	M-O	4.69	0.88	14.4	72	52	17	4.0	5.1	30	80	23A	70	52	120	150	87	91	43
23B	11/1/2012	ORG	8.54	0.81	11.6	61	44	13	4.6	4.9	38	69	23B	87	62	142	236	98	81	38
24A	11/1/2012	M-O	4.95	0.89	12.0	69	51	15	3.7	5.0	36	78	24A	59	45	130	163	108	79	43
24B	11/1/2012	ORG	7.21	0.86	11.9	61	45	13	4.6	4.9	37	59	24B	63	48	118	196	92	75	42
25A	11/1/2012	ORG	5.85	0.86	12.3	66	50	14	4.2	4.9	30	56	25A	87	62	90	149	88	91	45
25B	11/1/2012	ORG	6.78	0.88	11.0	64	48	13	4.0	5.0	34	64	25B	86	62	93	154	87	74	37
26A	11/1/2012	MIN	3.28	0.89	12.9	75	56	15	3.2	5.0	28	92	26A	110	76	94	94	46	83	33
26B	11/1/2012	M-O	5.23	0.85	13.3	68	50	14	4.2	5.0	27	89	26B	78	57	96	120	80	85	46
27W	11/1/2012	M-O	3.77	0.91	13.7	76	58	15	3.2	5.3	31	81	27W	66	50	92	115	108	70	38
28W	11/1/2012	MIN	2.92	0.96	13.3	79	61	16	2.8	5.4	32	69	28W	71	53	98	98	118	63	35
29G	11/1/2012	MIN	2.6	1.03	13.3	82	63	16	2.4	5.6	41	80	29G	74	54	107	107	109	61	33
31A	11/1/2012	ORG	6.38	0.92	11.3	64	51	10	4.0	5.0	52	65	31A	73	54	109	181	85	70	39
31B	11/1/2012	M-O	4.44	0.96	10.3	64	50	10	3.7	5.0	53	86	31B	64	48	77	96	89	73	32
31D	11/1/2012	ORG	5.53	0.93	9.3	55	42	9	4.2	4.9	49	80	31D	51	41	72	120	89	80	30
31R	11/1/2012	ORG	6.2	0.94	9.3	57	43	9	4.0	5.0	51	72	31R	65	49	75	125	73	77	26
32A	11/1/2012	ORG	6.99	0.79	11.0	57	43	10	4.8	5.0	48	90	32A	97	68	125	208	90	75	35
32B	11/1/2012	ORG	5.85	0.84	10.7	59	44	11	4.4	4.9	59	88	32B	77	56	116	193	97	81	39
35W	11/1/2012	ORG	6.78	0.90	8.9	56	44	9	3.9	5.1	45	71	35W	65	49	136	226	79	83	37
36A	11/1/2012	MIN	1.25	1.13	7.7	81	59	18	1.5	5.6	54	50	36A	66	50	80	80	33	52	35
36B	11/1/2012	MIN	0.86	1.11	11.2	85	56	26	1.6	5.8	44	72	36B	67	50	65	65	27	47	44
37W	11/1/2012	MIN	0.92	1.16	8.4	86	61	23	1.2	6.0	35	39	37W	76	56	76	76	101	48	34
38A	11/1/2012	MIN	0.81	1.10	12.5	89	65	22	1.4	6.0	36	47	38A	75	55	55	55	52	41	33
38B	11/1/2012	MIN	2.6	1.02	12.5	83	60	20	2.1	5.8	51	74	38B	81	59	92	92	104	54	35
39A	11/1/2012	MIN	1.49	1.15	9.4	82	62	17	1.6	5.6	62	63	39A	64	48	77	77	64	47	27
39B	11/1/2012	MIN	1.8	1.11	12.6	83	61	19	2.1	5.6	49	59	39B	71	53	70	70	85	56	46
39D	11/1/2012	MIN	1.67	1.06	14.5	88	62	23	1.8	5.9	58	75	39D	93	66	75	75	99	59	41
40A	11/1/2012	MIN	1.74	1.20	8.6	78	60	15	1.8	5.7	118	66	40A	66	50	90	90	82	68	36
40B	11/1/2012	MIN	1.37	1.13	11.3	85	62	20	1.7	5.8	81	59	40B	70	52	73	73	80	65	47
40C	11/1/2012	MIN	2.15	1.03	13.2	83	61	19	2.2	5.7	61	87	40C	63	48	77	77	76	64	38
40D	11/1/2012	MIN	1.43	1.15	9.9	79	56	19	2.0	5.5	69	78	40D	49	39	71	71	74	59	39

Wednesday, June 26, 2013

Soil Test Data

Report No.: SL011157

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
		Avg:		0.93	12.1	71	53	15	3.5	5.3	52	85		81		128	185	87		43
		Hi:		1.20	18.5	89	65	26	5.6	6.0	118	154		144		314	521	141		76
		Lo:		0.66	7.7	55	42	9	1.2	4.7	27	39		49		55	55	27		26

Soil Nutrient Needs

Report No.: SL010249

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
01A	10/26/2012	ORG	15.3		SG/SB- DC	80-100	30	0	01A	0	0	0	Corn Grain	0	0
01B	10/26/2012	ORG	19.5		SG/SB- DC	80-100	60	0	01B	0	0	0	Corn Grain	30	10
01C	10/26/2012	ORG	19.5		SG/SB- DC	80-100	50	30	01C	0	0	0	Corn Grain	20	20
01D	10/26/2012	ORG	18.1		SG/SB- DC	80-100	60	10	01D	0	0	0	Corn Grain	20	20
01R	10/26/2012	ORG	18.3		SG/SB- DC	80-100	60	30	01R	0	0	0	Corn Grain	30	20
02A	10/26/2012	ORG	16.8		SG/SB- DC	80-100	80	20	02A	0	0	0	Corn Grain	50	20
02B	10/26/2012	ORG	18.0		SG/SB- DC	80-100	90	40	02B	0	0	0	Corn Grain	70	30
02C	10/26/2012	ORG	19.9		SG/SB- DC	80-100	80	10	02C	6	0	0	Corn Grain	50	10
02D	10/26/2012	ORG	19.3		SG/SB- DC	80-100	90	20	02D	6	0	0	Corn Grain	70	20
02R	10/26/2012	MIN	14.5		SG/SB- DC	80-100	0	70	02R	0	0		Corn Grain	0	50
03A	10/26/2012	ORG	18.9		SG/SB- DC	80-100	50	0	03A	0	0	0	Corn Grain	10	0
03B	10/26/2012	ORG	19.3		SG/SB- DC	80-100	50	0	03B	0	0	0	Corn Grain	10	0
04A	10/26/2012	ORG	15.9		Canola/Rape	120-140	80	0	04A	0	0	0	SG/SB- DC	80	0
04B	10/26/2012	ORG	18.4		Canola/Rape	120-140	60	0	04B	0	0	0	SG/SB- DC	60	0
05A	10/26/2012	M-O	18.0		Canola/Rape	120-140	60	0	05A	0	0	0	SG/SB- DC	90	0
05B	10/26/2012	ORG	17.4		Canola/Rape	120-140	60	0	05B	0	0	0	SG/SB- DC	60	0
06A	10/26/2012	MIN	17.0		Canola/Rape	120-140	80	0	06A	0	0	0	SG/SB- DC	110	0
07W	10/26/2012	M-O	18.3		Canola/Rape	120-140	70	0	07W	0	0	0	SG/SB- DC	100	0
08W	10/26/2012	MIN	15.6		Canola/Rape	120-140	40	0	08W	0	0	0	SG/SB- DC	60	0
09G	10/26/2012	MIN	17.3		Canola/Rape	120-140	30	0	09G	0	0	0	SG/SB- DC	50	0
11A	10/26/2012	ORG	16.1		Canola/Rape	120-140	60	0	11A	0	0	0	SG/SB- DC	60	0
11B	10/26/2012	ORG	17.1		Canola/Rape	120-140	40	0	11B	0	0	0	SG/SB- DC	40	0
11C	10/26/2012	ORG	17.6		Canola/Rape	120-140	30	0	11C	0	0	0	SG/SB- DC	30	0
12A	10/26/2012	ORG	18.4		Canola/Rape	120-140	50	0	12A	0	0	0	SG/SB- DC	50	0
12B	10/26/2012	ORG	17.2		Canola/Rape	120-140	30	0	12B	0	0	0	SG/SB- DC	30	0
12C	10/26/2012	ORG	19.4		Canola/Rape	120-140	40	0	12C	0	0	0	SG/SB- DC	40	0
13A	10/26/2012	ORG	17.0		Canola/Rape	120-140	50	0	13A	0	0	0	SG/SB- DC	50	0
13B	10/26/2012	ORG	17.6		Canola/Rape	120-140	40	0	13B	0	0	0	SG/SB- DC	40	0
13C	10/26/2012	ORG	20.0		Canola/Rape	120-140	0	0	13C	0	0	0	SG/SB- DC	0	0
14A	10/26/2012	ORG	15.7		Canola/Rape	120-140	20	0	14A	0	0	0	SG/SB- DC	20	0
14B	10/26/2012	ORG	19.3		Canola/Rape	120-140	40	0	14B	0	0	0	SG/SB- DC	40	0
14C	10/26/2012	ORG	21.6		Canola/Rape	120-140	10	0	14C	0	0	0	SG/SB- DC	10	0
15A	10/26/2012	ORG	16.5		Canola/Rape	120-140	0	0	15A	0	0	0	SG/SB- DC	0	0
15B	10/26/2012	ORG	18.5		Canola/Rape	120-140	30	0	15B	0	0	0	SG/SB- DC	30	0
15C	10/26/2012	ORG	21.2		Canola/Rape	120-140	20	0	15C	0	0	0	SG/SB- DC	20	0
16A	10/26/2012	ORG	16.8		Canola/Rape	120-140	20	0	16A	0	0	0	SG/SB- DC	20	0
16B	10/26/2012	ORG	19.2		Canola/Rape	120-140	10	0	16B	0	0	0	SG/SB- DC	10	0
16C	10/26/2012	ORG	18.9		Canola/Rape	120-140	10	0	16C	0	0	0	SG/SB- DC	10	0
17A	10/26/2012	ORG	14.5		Canola/Rape	120-140	20	0	17A	0	0	0	SG/SB- DC	20	0
17B	10/26/2012	ORG	16.8		Canola/Rape	120-140	20	0	17B	0	0	0	SG/SB- DC	20	0
17C	10/26/2012	ORG	20.1		Canola/Rape	120-140	10	0	17C	0	0	0	SG/SB- DC	10	0

Soil Nutrient Needs

Report No.: SL010249

Grower Name: Delbert Armstrong Farms Inc Farm Name: WAGMAND ROAD Farm Code: 186WGM

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
	Avg:		17.9												
	Hi:		21.6												
	Lo:		14.5												

Soil Nutrient Needs

Report No.: SL011157

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** WAGMAND ROAD **Farm Code:** 186WGM

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
18A	11/1/2012	ORG	12.1		SG/SB- DC	80-100	20	0	18A	0	0	0	Corn Grain	0	0
18B	11/1/2012	ORG	14.4		SG/SB- DC	80-100	20	0	18B	0	0	0	Corn Grain	0	0
18C	11/1/2012	ORG	18.5		SG/SB- DC	80-100	0	0	18C	0	0	0	Corn Grain	0	0
19A	11/1/2012	ORG	14.7		SG/SB- DC	80-100	10	0	19A	0	0	0	Corn Grain	0	0
19B	11/1/2012	ORG	16.7		SG/SB- DC	80-100	10	0	19B	0	0	0	Corn Grain	0	0
20A	11/1/2012	ORG	11.9		SG/SB- DC	80-100	10	0	20A	0	0	0	Corn Grain	0	0
20B	11/1/2012	ORG	14.1		SG/SB- DC	80-100	0	0	20B	0	0	0	Corn Grain	0	0
21A	11/1/2012	ORG	12.6		SG/SB- DC	80-100	10	0	21A	0	0	0	Corn Grain	0	0
21B	11/1/2012	ORG	13.0		SG/SB- DC	80-100	0	0	21B	0	0	0	Corn Grain	0	0
21C	11/1/2012	M-O	10.9		SG/SB- DC	80-100	0	0	21C	0	0	0	Corn Grain	0	0
22A	11/1/2012	MIN	13.4		SG/SB- DC	80-100	30	0	22A	0	0	0	Corn Grain	20	0
22B	11/1/2012	ORG	13.9		SG/SB- DC	80-100	40	0	22B	0	0	0	Corn Grain	0	0
23A	11/1/2012	M-O	14.4		SG/SB- DC	80-100	90	0	23A	0	0	0	Corn Grain	70	0
23B	11/1/2012	ORG	11.6		SG/SB- DC	80-100	50	10	23B	0	0	0	Corn Grain	10	20
24A	11/1/2012	M-O	12.0		SG/SB- DC	80-100	70	0	24A	0	0	0	Corn Grain	50	10
24B	11/1/2012	ORG	11.9		SG/SB- DC	80-100	50	40	24B	0	0	0	Corn Grain	20	30
25A	11/1/2012	ORG	12.3		SG/SB- DC	80-100	70	40	25A	0	0	0	Corn Grain	40	30
25B	11/1/2012	ORG	11.0		SG/SB- DC	80-100	60	20	25B	0	0	0	Corn Grain	30	20
26A	11/1/2012	MIN	12.9		SG/SB- DC	80-100	100	0	26A	0	0	0	Corn Grain	70	0
26B	11/1/2012	M-O	13.3		SG/SB- DC	80-100	100	0	26B	0	0	0	Corn Grain	70	0
27W	11/1/2012	M-O	13.7		SG/SB- DC	80-100	90	0	27W	0	0	0	Corn Grain	60	0
28W	11/1/2012	MIN	13.3		SG/SB- DC	80-100	90	10	28W	0	0	0	Corn Grain	60	20
29G	11/1/2012	MIN	13.3		SG/SB- DC	80-100	60	0	29G	0	0	0	Corn Grain	40	0
31A	11/1/2012	ORG	11.3		SG/SB- DC	80-100	20	20	31A	0	0	0	Corn Grain	0	20
31B	11/1/2012	M-O	10.3		SG/SB- DC	80-100	30	0	31B	0	0	0	Corn Grain	20	0
31D	11/1/2012	ORG	9.3		SG/SB- DC	80-100	30	0	31D	0	0	0	Corn Grain	0	0
31R	11/1/2012	ORG	9.3		SG/SB- DC	80-100	20	0	31R	0	0	0	Corn Grain	0	10
32A	11/1/2012	ORG	11.0		SG/SB- DC	80-100	30	0	32A	0	0	0	Corn Grain	0	0
32B	11/1/2012	ORG	10.7		SG/SB- DC	80-100	10	0	32B	0	0	0	Corn Grain	0	0
35W	11/1/2012	ORG	8.9		SG/SB- DC	80-100	30	10	35W	0	0	0	Corn Grain	0	10
36A	11/1/2012	MIN	7.7		SG/SB- DC	80-100	30	60	36A	0	0	0	Corn Grain	20	40
36B	11/1/2012	MIN	11.2		SG/SB- DC	80-100	50	0	36B	0	0	0	Corn Grain	40	10
37W	11/1/2012	MIN	8.4		SG/SB- DC	80-100	80	100	37W	0	0	0	Corn Grain	60	60
38A	11/1/2012	MIN	12.5		SG/SB- DC	80-100	70	70	38A	0	0	0	Corn Grain	50	50
38B	11/1/2012	MIN	12.5		SG/SB- DC	80-100	40	0	38B	0	0	0	Corn Grain	20	10
39A	11/1/2012	MIN	9.4		SG/SB- DC	80-100	10	30	39A	0	0	0	Corn Grain	0	20
39B	11/1/2012	MIN	12.6		SG/SB- DC	80-100	40	40	39B	0	0	0	Corn Grain	30	30
39D	11/1/2012	MIN	14.5		SG/SB- DC	80-100	20	0	39D	0	0	0	Corn Grain	10	10
40A	11/1/2012	MIN	8.6		SG/SB- DC	80-100	0	20	40A	0	0	0	Corn Grain	0	20
40B	11/1/2012	MIN	11.3		SG/SB- DC	80-100	0	40	40B	0	0	0	Corn Grain	0	30
40C	11/1/2012	MIN	13.2		SG/SB- DC	80-100	10	0	40C	0	0	0	Corn Grain	10	0
40D	11/1/2012	MIN	9.9		SG/SB- DC	80-100	0	0	40D	0	0	0	Corn Grain	0	10

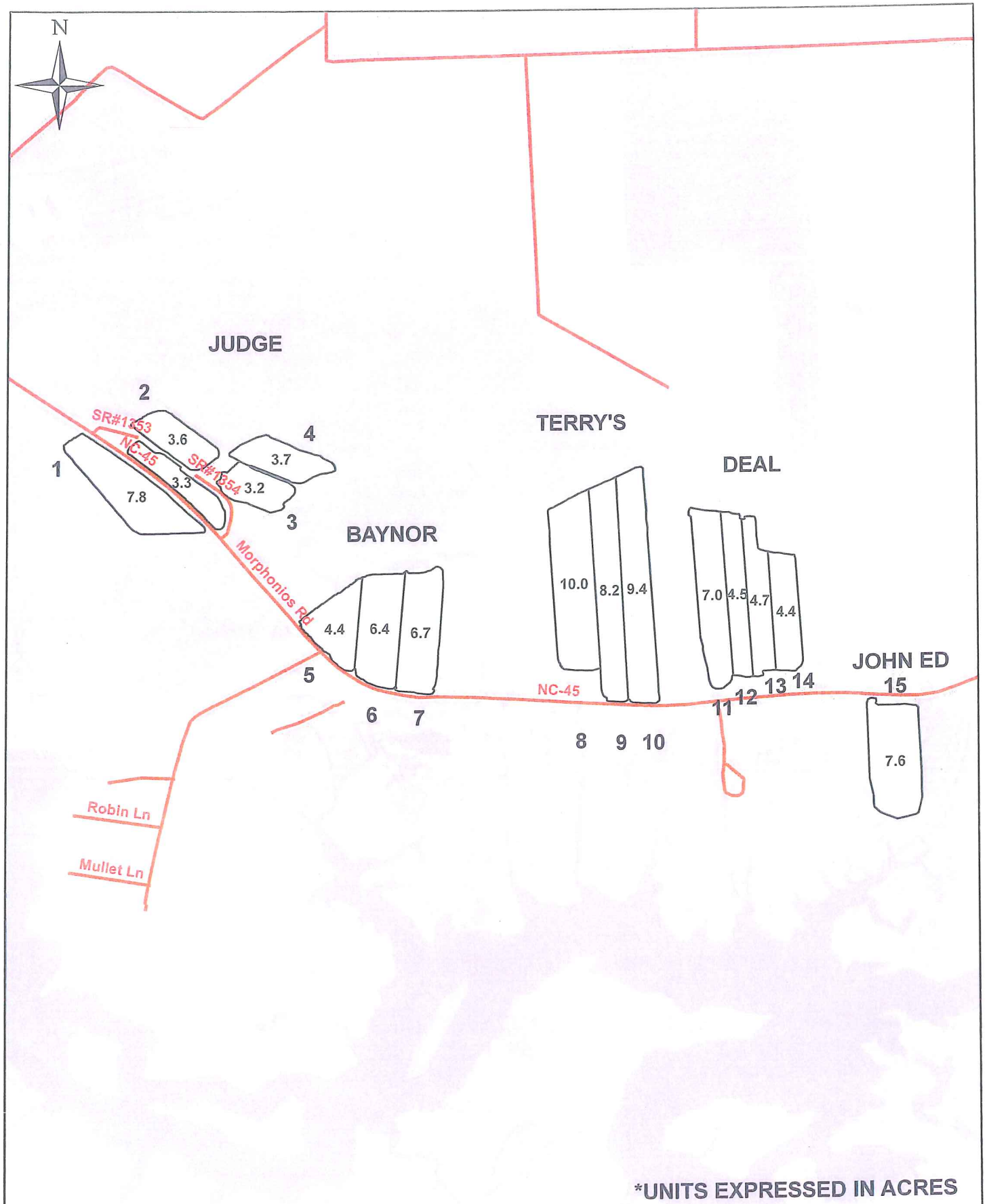
Wednesday, June 26, 2013

Soil Nutrient Needs

Report No.: SL011157

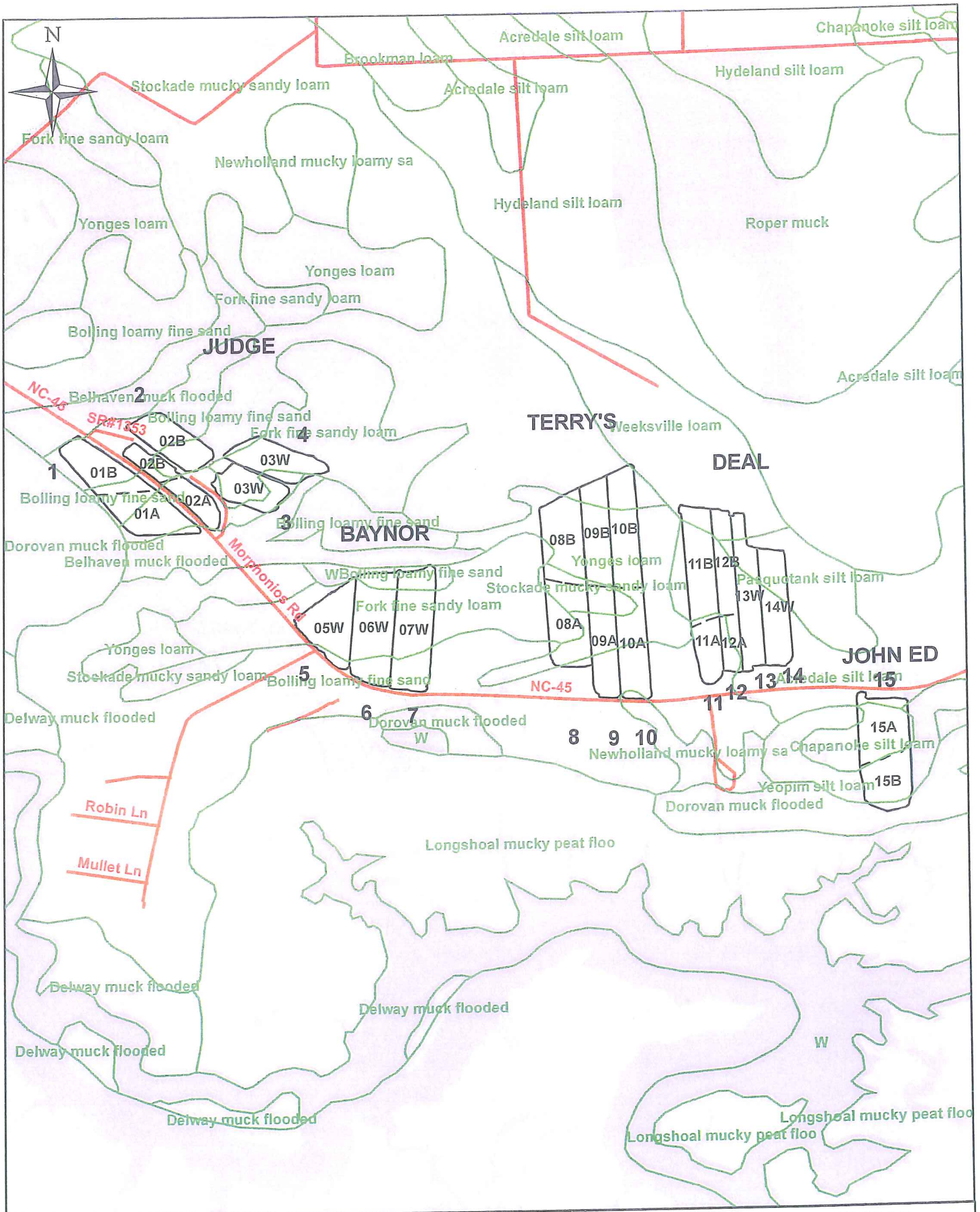
Grower Name: Delbert Armstrong Farms Inc Farm Name: WAGMAND ROAD Farm Code: 186WGM

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
	Avg:		12.1												
	Hi:		18.5												
	Lo:		7.7												



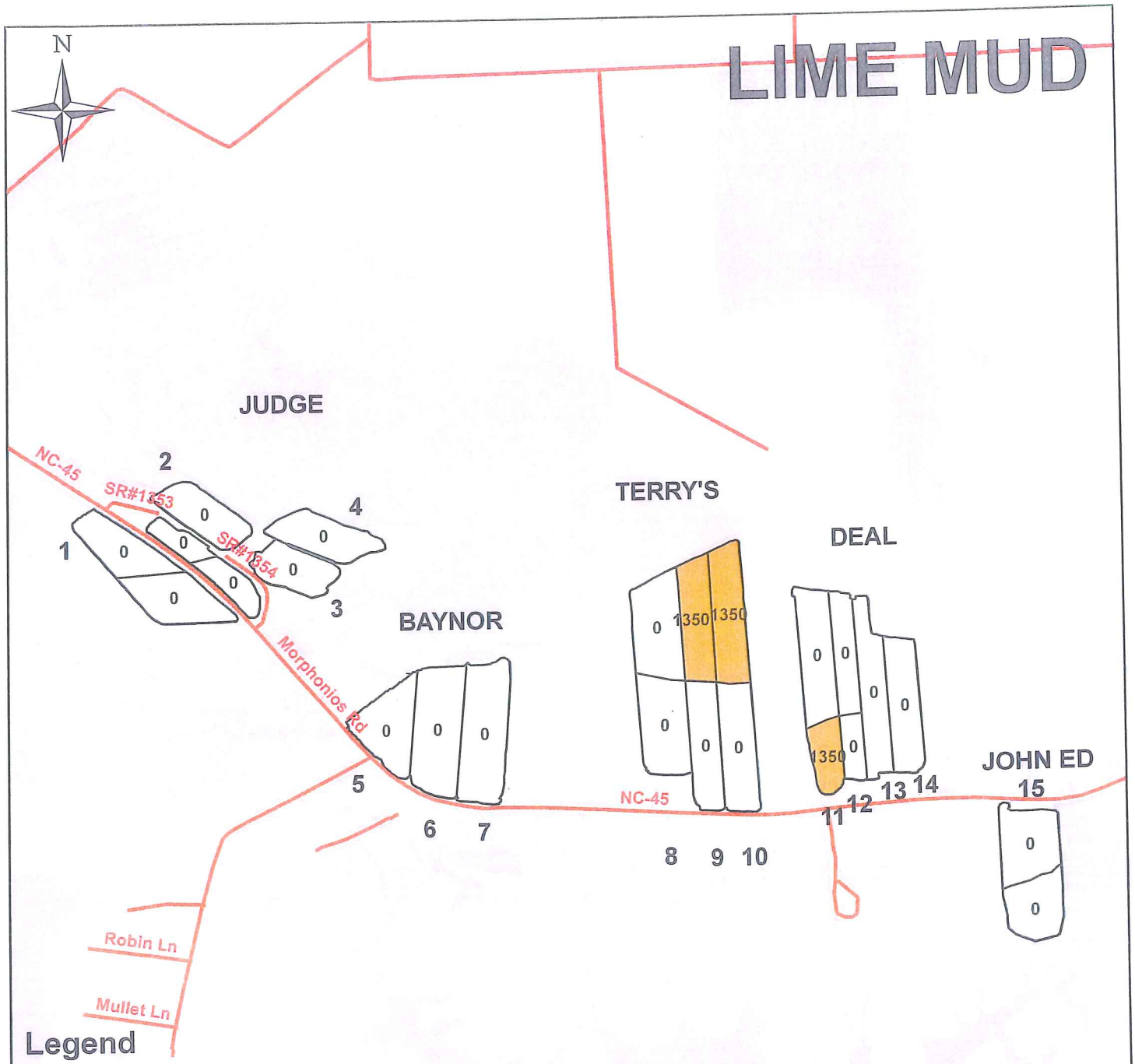
*UNITS EXPRESSED IN ACRES

Scale: 1 inch equals 1,110.255845 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 FARM ACREAGE MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		MCCALL FARM CUTS 1-18
Date: JANUARY 2013		TOTAL ACRES: 95.0



Scale: 1 inch equals 1,110.255845 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 SOIL SAMPLE CODE MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		MCCALL FARM CUTS 1-18
Date: JANUARY 2013		TOTAL ACRES: 95.0

LIME MUD



Legend

LIME MUD_MCCALL_ARMSTRONG_WGS13

LIME MUD @ 1350 LBS/ACRE

0

1350

*UNITS EXPRESSED IN POUNDS

EST. TOTAL LIME MUD: 7.41 TONS
ACRES SPREAD: 11.0

2012: CORN
2013: WHEAT/SOYB 11-14
SOYBEAN 1-10,15

Scale: 1 inch equals 1,110.255845 feet	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 LIME MUD APPLICATION MAP
Drawn By: MARK E. ELLIOTT		ARMSTRONG FARMS
Reviewed By: BWN		MCCALL FARM CUTS 1-18
Date: JANUARY 2013		TOTAL ACRES: 95.0

Soil Lime Report

Report No.: SL010222 **Lime Rec. Date:** 12/12/2012 **Lime Type:** C or D bwn

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** McCall Farm **Farm Code:** 186MCL

Smpl ID	Date	Last Crop	Mo.	Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type	Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
01A	10/25/2012		0	0	0	MIN	6.1	Soybeans	0	0.0	Calc	01A	1.0	0.97	1.2	82	62	17	5.7	76
01B	10/25/2012		0	0	0	MIN	5.9	Soybeans	0	0.0	Calc	01B	1.4	1.02	1.2	73	54	16	5.1	63
02A	10/25/2012		0	0	0	MIN	6.0	Soybeans	0	0.0	Calc	02A	1.2	0.81	1.2	77	58	16	5.1	71
02B	10/25/2012		0	0	0	MIN	6.2	Soybeans	0	0.0	Calc	02B	1.2	1.19	1.2	83	66	15	7.0	77
03W	10/25/2012		0	0	0	MIN	6.1	Soybeans	0	0.0	Calc	03W	1.2	1.37	1.2	82	64	16	6.6	94
05W	10/25/2012		0	0	0	MIN	6.4	Soybeans	0	0.0	Calc	05W	1.2	2.37	1.1	86	62	23	8.8	43
06W	10/25/2012		0	0	0	MIN	6.5	Soybeans	0	0.0	Calc	06W	1.2	2.01	1.1	86	59	25	8.4	34
07W	10/25/2012		0	0	0	MIN	6.2	Soybeans	0	0.0	Calc	07W	1.3	1.94	1.1	83	57	25	8.0	28
08A	10/25/2012		0	0	0	MIN	5.9	Soybeans	0	0.0	Calc	08A	1.8	2.01	1.1	77	60	15	7.6	90
08B	10/25/2012		0	0	0	MIN	5.9	Soybeans	0.4	0.5	Calc	08B	2.0	2.52	1.0	76	60	13	8.3	103
09A	10/25/2012		0	0	0	MIN	6.0	Soybeans	0	0.0	Calc	09A	1.7	2.22	1.1	80	64	13	8.6	92
09B	10/25/2012		0	0	0	MIN	5.6	Soybeans	0.8	1.0	Calc	09B	2.2	3.01	1.0	74	59	12	8.6	87
10A	10/25/2012		0	0	0	MIN	6.1	Soybeans	0	0.0	Calc	10A	1.5	2.29	1.1	84	65	16	9.0	72
10B	10/25/2012		0	0	0	MIN	5.7	Soybeans	0.8	1.0	Calc	10B	2.4	3.47	1.0	74	59	13	9.2	67
11A	10/25/2012		0	0	0	MIN	5.3	Soybeans	1.2	1.0	Calc	11A	2.4	2.6	1.1	64	49	11	6.6	51
11B	10/25/2012		0	0	0	MIN	6.0	Soybeans	0	0.0	Calc	11B	1.5	1.31	1.1	77	59	15	6.7	70
12B	10/25/2012		0	0	0	MIN	5.7	Soybeans	0.7	0.5	Calc	12B	2.0	2.44	1.1	73	56	12	7.1	69
13W	10/25/2012		0	0	0	MIN	5.8	Soybeans	0.4	0.5	Calc	13W	1.5	2.22	1.0	78	61	13	6.8	68
14W	10/25/2012		0	0	0	MIN	5.7	Soybeans	0.6	0.5	Calc	14W	2.0	1.94	1.1	70	54	12	6.8	66
15A	10/25/2012		0	0	0	MIN	5.9	Soybeans	0	0.0	Dol	15A	1.6	0.81	1.1	72	56	12	5.7	96
15B	10/25/2012		0	0	0	MIN	5.8	Soybeans	0.3	0.5	Calc	15B	1.4	0.92	1.2	74	56	14	5.3	102
23A	10/25/2012		0	0	0	MIN	5.9	Soybeans	0.4	0.5	Calc	23A	2.1	1.25	1.1	73	58	14	7.8	79
				Avg:			5.9						1.6		1.1	77	59	15	7.2	73
				Hi:			6.5						2.4		1.2	86	66	25	9.2	103
				Lo:			5.3						1.0		1.0	64	49	11	5.1	28

Soil Test Data

Report No.: SL010222

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** McCall Farm **Farm Code:** 186MCL

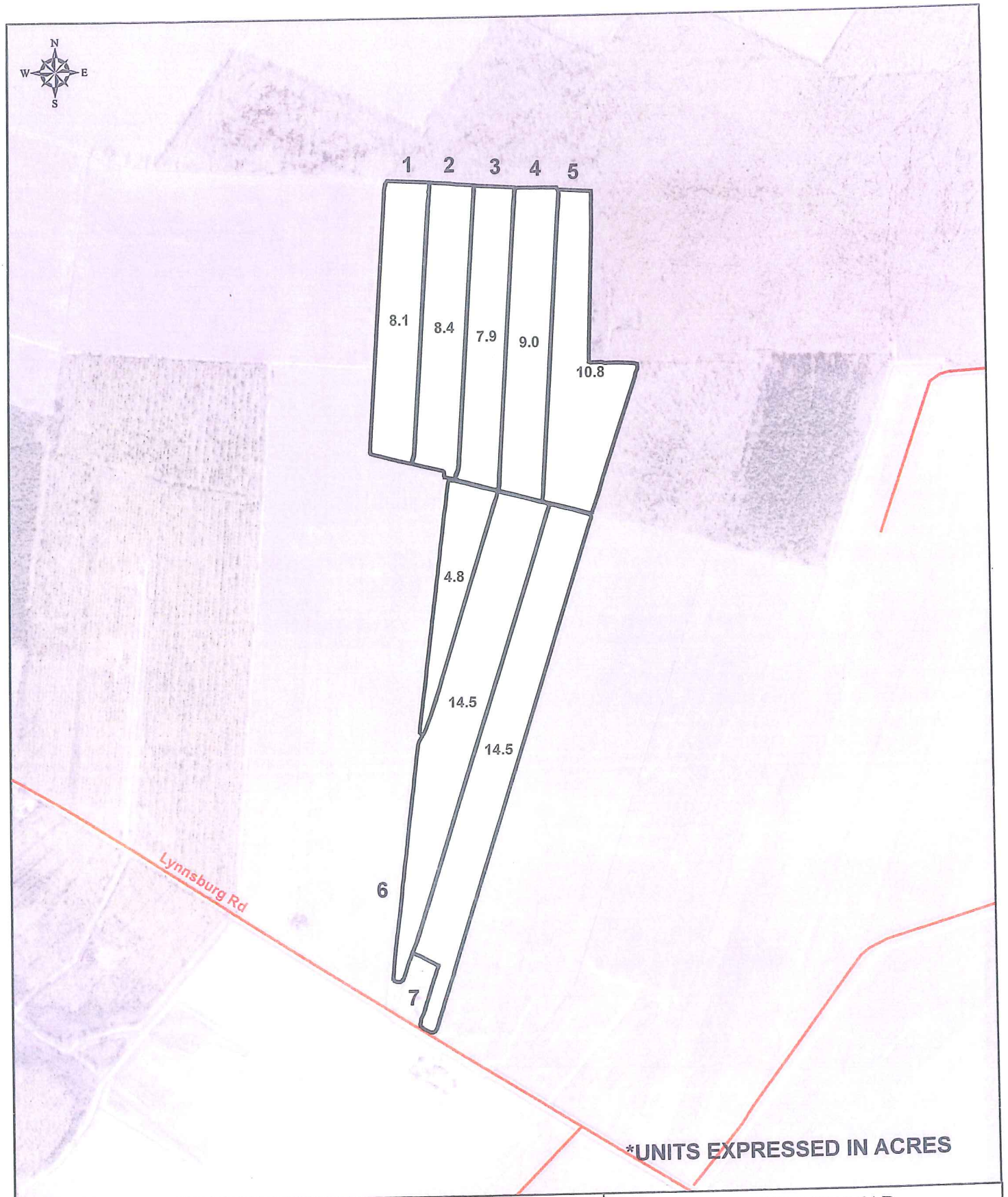
Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	PI	KI	Smpl ID	MnI	MnAl	ZnI	ZnAl	CuI	SuI	Na
01A	10/25/2012	MIN	0.97	1.18	5.7	82	62	17	1.0	6.1	110	25	01A	76	55	76	76	53	50	29
01B	10/25/2012	MIN	1.02	1.17	5.1	73	54	16	1.4	5.9	91	32	01B	63	48	61	61	31	50	26
02A	10/25/2012	MIN	0.81	1.17	5.1	77	58	16	1.2	6.0	91	25	02A	71	52	61	61	87	44	23
02B	10/25/2012	MIN	1.19	1.17	7.0	83	66	15	1.2	6.2	88	26	02B	77	54	89	89	101	46	24
03W	10/25/2012	MIN	1.37	1.19	6.6	82	64	16	1.2	6.1	65	23	03W	94	65	66	66	43	42	24
05W	10/25/2012	MIN	2.37	1.13	8.8	86	62	23	1.2	6.4	103	24	05W	43	30	82	82	70	49	59
06W	10/25/2012	MIN	2.01	1.13	8.4	86	59	25	1.2	6.5	109	27	06W	34	23	70	70	63	45	47
07W	10/25/2012	MIN	1.94	1.08	8.0	83	57	25	1.3	6.2	89	29	07W	28	23	56	56	57	40	30
08A	10/25/2012	MIN	2.01	1.09	7.6	77	60	15	1.8	5.9	86	34	08A	90	64	90	90	88	42	27
08B	10/25/2012	MIN	2.52	1.04	8.3	76	60	13	2.0	5.9	85	42	08B	103	72	88	88	84	42	25
09A	10/25/2012	MIN	2.22	1.06	8.6	80	64	13	1.7	6.0	77	47	09A	92	65	120	120	108	37	25
09B	10/25/2012	MIN	3.01	1.05	8.6	74	59	12	2.2	5.6	89	55	09B	87	62	121	121	225	43	23
10A	10/25/2012	MIN	2.29	1.09	9.0	84	65	16	1.5	6.1	78	45	10A	72	51	140	140	118	37	27
10B	10/25/2012	MIN	3.47	0.99	9.2	74	59	13	2.4	5.7	79	48	10B	67	50	110	110	81	42	22
11A	10/25/2012	MIN	2.6	1.07	6.6	64	49	11	2.4	5.3	63	47	11A	51	41	85	85	71	48	24
11B	10/25/2012	MIN	1.31	1.06	6.7	77	59	15	1.5	6.0	68	40	11B	70	52	84	84	70	46	55
12B	10/25/2012	MIN	2.44	1.10	7.1	73	56	12	2.0	5.7	70	58	12B	69	51	117	117	74	41	20
13W	10/25/2012	MIN	2.22	1.00	6.8	78	61	13	1.5	5.8	77	54	13W	68	51	119	119	88	48	26
14W	10/25/2012	MIN	1.94	1.06	6.8	70	54	12	2.0	5.7	90	53	14W	66	50	84	84	104	48	25
15A	10/25/2012	MIN	0.81	1.10	5.7	72	56	12	1.6	5.9	107	46	15A	96	68	94	94	94	34	24
15B	10/25/2012	MIN	0.92	1.19	5.3	74	56	14	1.4	5.8	122	50	15B	102	71	107	107	226	32	26
23A	10/25/2012	MIN	1.25	1.14	7.8	73	58	14	2.1	5.9	81	29	23A	79	57	115	115	73	40	31
		Avg:		1.10	7.2	77	59	15	1.6	5.9	87	39		73		93	93	91		29
		Hi:		1.19	9.2	86	66	25	2.4	6.5	122	58		103		140	140	226		59
		Lo:		0.99	5.1	64	49	11	1.0	5.3	63	23		28		56	56	31		20

Soil Nutrient Needs

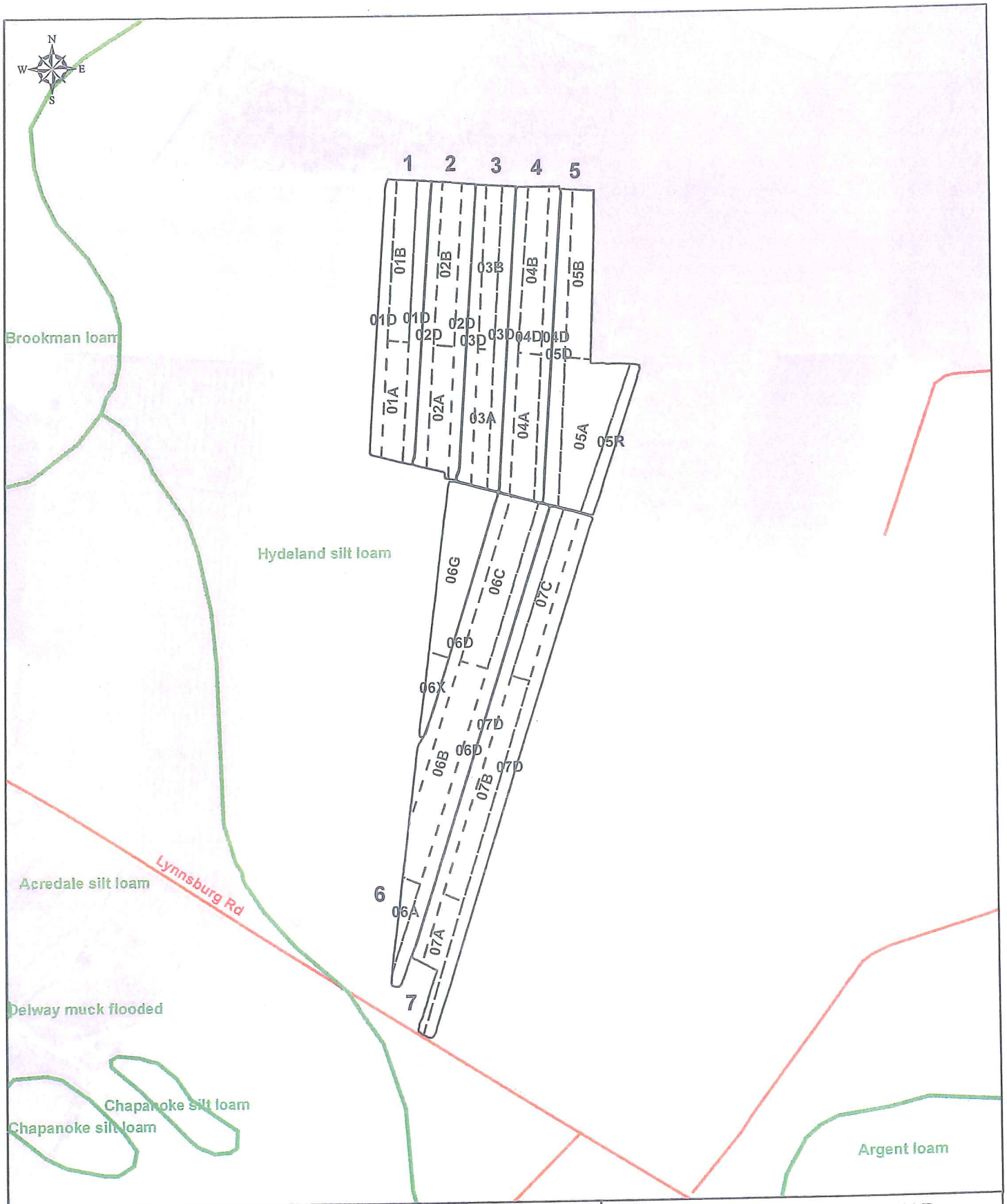
Report No.: SL010222

Grower Name: Delbert Armstrong Farms Inc **Farm Name:** McCall Farm **Farm Code:** 186MCL

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
01A	10/25/2012	MIN	5.7		Soybeans	0	0	90	01A	0	0	0	Corn Grain	0	90
01B	10/25/2012	MIN	5.1		Soybeans	0	0	70	01B	0	0	0	Corn Grain	0	70
02A	10/25/2012	MIN	5.1		Soybeans	0	0	90	02A	0	0	0	Corn Grain	0	90
02B	10/25/2012	MIN	7.0		Soybeans	0	0	90	02B	0	0	0	Corn Grain	0	90
03W	10/25/2012	MIN	6.6		Soybeans	0	0	90	03W	0	0	0	Corn Grain	0	90
05W	10/25/2012	MIN	8.8		Soybeans	0	0	90	05W	0	0	0	Corn Grain	0	90
06W	10/25/2012	MIN	8.4		Soybeans	0	0	80	06W	0	0		Corn Grain	0	80
07W	10/25/2012	MIN	8.0		Soybeans	0	0	80	07W	0	0		Corn Grain	0	80
08A	10/25/2012	MIN	7.6		Soybeans	0	0	70	08A	0	0	0	Corn Grain	0	70
08B	10/25/2012	MIN	8.3		Soybeans	0	0	50	08B	0	0	0	Corn Grain	0	50
09A	10/25/2012	MIN	8.6		Soybeans	0	0	50	09A	0	0	0	Corn Grain	0	50
09B	10/25/2012	MIN	8.6		Soybeans	0	0	30	09B	0	0	0	Corn Grain	0	30
10A	10/25/2012	MIN	9.0		Soybeans	0	0	50	10A	0	0	0	Corn Grain	0	50
10B	10/25/2012	MIN	9.2		Soybeans	0	0	40	10B	0	0	0	Corn Grain	0	40
11A	10/25/2012	MIN	6.6		Soybeans	0	0	50	11A	0	0	0	Corn Grain	0	50
11B	10/25/2012	MIN	6.7		Soybeans	0	0	60	11B	0	0	0	Corn Grain	0	60
12B	10/25/2012	MIN	7.1		Soybeans	0	0	30	12B	0	0	0	Corn Grain	0	30
13W	10/25/2012	MIN	6.8		Soybeans	0	0	40	13W	0	0	0	Corn Grain	0	40
14W	10/25/2012	MIN	6.8		Soybeans	0	0	40	14W	0	0	0	Corn Grain	0	40
15A	10/25/2012	MIN	5.7		Soybeans	0	0	50	15A	0	0	0	Corn Grain	0	50
15B	10/25/2012	MIN	5.3		Soybeans	0	0	40	15B	0	0	0	Corn Grain	0	40
23A	10/25/2012	MIN	7.8		Soybeans	0	0	80	23A	0	0	0	Corn Grain	0	80
	Avg:		7.2												
	Hi:		9.2												
	Lo:		5.1												

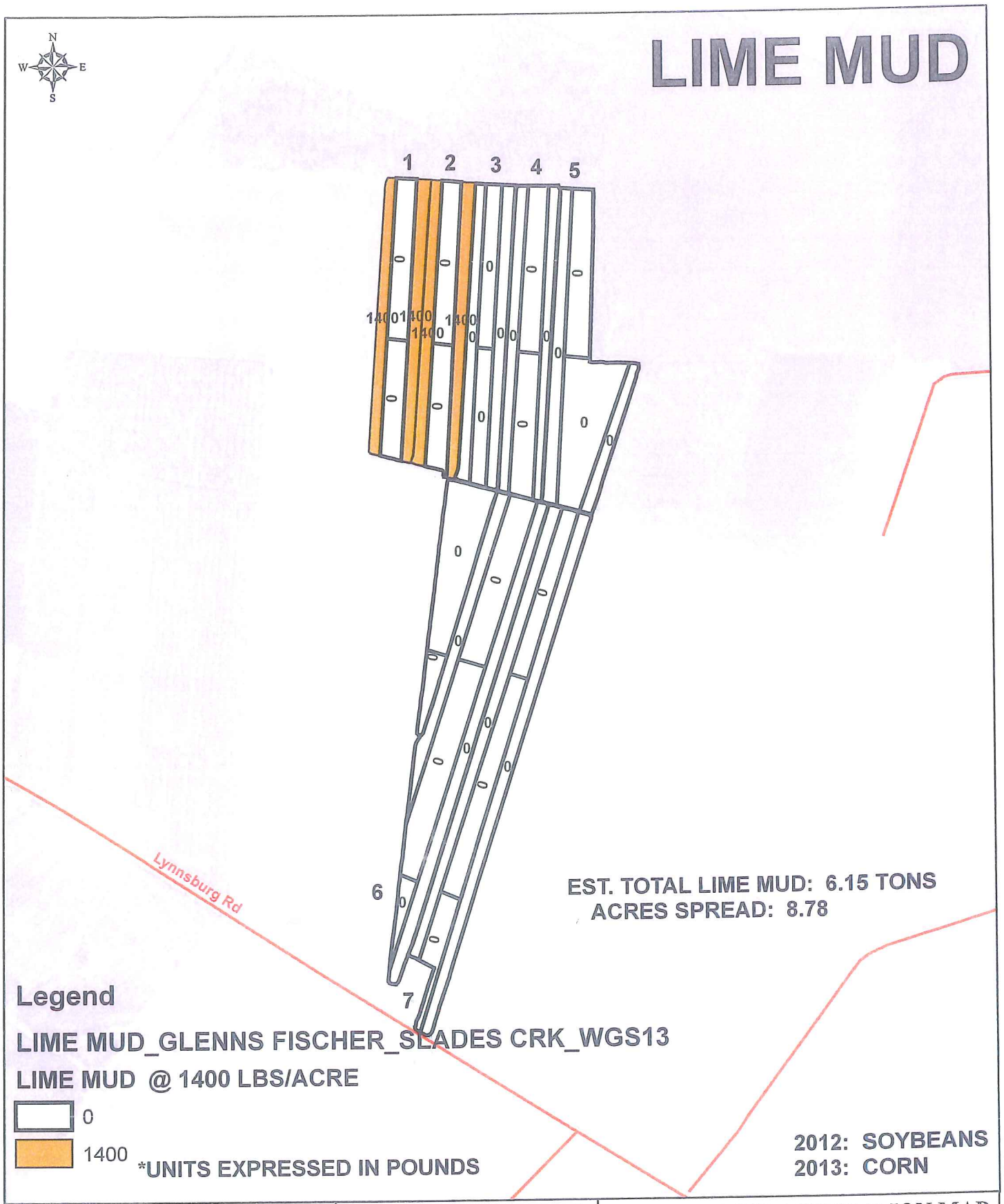


Scale: 1 inch equals 0.146977 miles	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 FARM ACREAGE MAP
Drawn By: MARK E. ELLIOTT		SLADES CREEK FARMS
Reviewed By: BWN		GLENN'S FISCHER CUTS 1-7
Date: DECEMBER 2012		TOTAL ACREAGE: 78.0



Scale: 1 inch equals 0.146736 miles	TAS TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 SOIL SAMPLE CODE MAP
Drawn By: MARK E. ELLIOTT		SLADES CREEK FARMS
Reviewed By: BWN		GLENN'S FISCHER CUTS 1-7
Date: DECEMBER 2012		TOTAL ACREAGE: 78.0

LIME MUD



Scale: 1 inch equals 0.146736 miles	TOTAL AGRONOMIC SERVICES (252) 974-1182	2013 LIME MUD APPLICATION MAP
Drawn By: MARK E. ELLIOTT		SLADES CREEK FARMS
Reviewed By: BWN		GLENN'S FISCHER CUTS 1-7
Date: DECEMBER 2012		TOTAL ACREAGE: 78.0

Soil Lime Report

Report No.: SL016340 **Lime Rec. Date:** 12/11/2012 **Lime Type:** C or D bwn

Grower Name: Slades Creek Farms **Farm Name:** GLENN FISHER **Farm Code:** 223GSF

Smpl ID	Date	Last Crop	Mo.	Year	Tns Appl	Soil Cls	pH	Next Crop	NCDA Lime	IA Lime	Lime Type
01A	12/6/2012		0	0	0	MIN	6.0	Corn Grain	0	0.0	Calc
01B	12/6/2012		0	0	0	MIN	6.0	Corn Grain	0	0.0	Calc
01D	12/6/2012		0	0	0	MIN	5.6	Corn Grain	0.9	1.0	Calc
02A	12/6/2012		0	0	0	MIN	5.9	Corn Grain	0.4	0.5	Calc
02B	12/6/2012		0	0	0	MIN	5.9	Corn Grain	0	0.0	Calc
02D	12/6/2012		0	0	0	MIN	5.6	Corn Grain	0.8	1.0	Calc
03A	12/6/2012		0	0	0	MIN	6.2	Corn Grain	0	0.0	Calc
03B	12/6/2012		0	0	0	MIN	6.3	Corn Grain	0	0.0	Calc
03D	12/6/2012		0	0	0	MIN	5.7	Corn Grain	0.7	0.5	Calc
04A	12/6/2012		0	0	0	MIN	6.0	Corn Grain	0	0.0	Calc
04B	12/6/2012		0	0	0	MIN	6.2	Corn Grain	0	0.0	Calc
04D	12/6/2012		0	0	0	MIN	5.9	Corn Grain	0	0.0	Calc
05A	12/6/2012		0	0	0	MIN	6.1	Corn Grain	0	0.0	Calc
05B	12/6/2012		0	0	0	MIN	6.1	Corn Grain	0	0.0	Calc
05D	12/6/2012		0	0	0	MIN	6.0	Corn Grain	0	0.0	Calc
05R	12/6/2012		0	0	0	MIN	5.9	Corn Grain	0	0.0	Calc
06A	12/6/2012		0	0	0	MIN	6.0	Corn Grain	0	0.0	Calc
06B	12/6/2012		0	0	0	MIN	6.0	Corn Grain	0	0.0	Calc
06C	12/6/2012		0	0	0	MIN	6.1	Corn Grain	0	0.0	Calc
06D	12/6/2012		0	0	0	MIN	6.1	Corn Grain	0	0.0	Calc
06G	12/6/2012		0	0	0	MIN	5.9	Corn Grain	0	0.0	Calc
06X	12/6/2012		0	0	0	MIN	6.2	Corn Grain	0	0.0	Calc
07A	12/6/2012		0	0	0	MIN	6.3	Corn Grain	0	0.0	Calc
07B	12/6/2012		0	0	0	MIN	6.3	Corn Grain	0	0.0	Calc
07C	12/6/2012		0	0	0	MIN	6.1	Corn Grain	0	0.0	Calc
07D	12/6/2012		0	0	0	MIN	6.2	Corn Grain	0	0.0	Calc
				Avg:			6.0				
				Hi:			6.3				
				Lo:			5.6				

Smpl ID	m/v Ac	% HM	Wt/ Vol	% BS	% Ca	% Mg	m/v CEC	Mnl
01A	2.3	3.19	1.0	81	58	20	12.2	43
01B	1.8	2.92	1.0	84	61	20	11.6	49
01D	2.3	2.68	1.1	76	49	25	9.8	41
02A	2.2	2.76	1.0	81	57	21	12.0	44
02B	1.6	2.37	1.0	86	61	22	11.3	42
02D	2.0	2.84	1.0	80	54	23	10.2	44
03A	1.3	2.29	1.0	89	67	19	11.9	38
03B	1.3	2.08	1.0	89	66	20	11.6	36
03D	2.3	2.52	1.0	79	53	23	10.7	41
04A	1.8	1.94	1.0	85	65	17	12.1	46
04B	1.1	1.37	1.0	89	68	19	10.2	48
04D	1.4	1.8	1.0	86	60	24	10.3	40
05A	1.2	1.55	1.0	84	65	16	7.7	35
05B	1.0	1.08	1.1	89	65	22	9.3	37
05D	1.1	1.25	1.0	89	64	23	10.3	42
05R	1.4	1.14	1.1	86	58	26	10.0	32
06A	1.1	1.43	1.0	86	61	20	7.8	59
06B	1.2	1.08	1.0	82	60	19	6.8	62
06C	1.2	1.55	1.0	87	61	22	9.6	48
06D	1.0	1.55	1.0	87	63	20	8.2	57
06G	1.5	2.6	1.0	87	59	25	11.8	39
06X	1.2	2.37	1.1	90	63	22	11.4	43
07A	1.2	1.37	1.0	87	64	20	9.1	55
07B	1.0	1.61	1.0	90	66	21	10.3	74
07C	1.7	2.52	1.0	87	62	22	13.2	57
07D	1.3	2.01	1.0	88	63	21	10.7	65
	1.5		1.0	86	61	21	10.4	47
	2.3		1.1	90	68	26	13.2	74
	1.0		1.0	76	49	16	6.8	32

Soil Test Data

Report No.: SL016340

Grower Name: Slades Creek Farms **Farm Name:** GLENN FISHER **Farm Code:** 223GSF

Smpl ID	Date	Soil Cls	% HM	Wt/ Vol	m/v CEC	% BS	% Ca	% Mg	m/v Ac	pH	Pl	Kl	Smpl ID	Mnl	MnAl	Znl	ZnAl	Cul	Sul	Na
01A	12/6/2012	MIN	3.19	0.98	12.2	81	58	20	2.3	6.0	61	67	01A	43	42	61	61	62	50	227
01B	12/6/2012	MIN	2.92	0.97	11.6	84	61	20	1.8	6.0	60	79	01B	49	46	87	87	83	52	236
01D	12/6/2012	MIN	2.68	1.06	9.8	76	49	25	2.3	5.6	44	59	01D	41	42	49	49	55	58	304
02A	12/6/2012	MIN	2.76	0.98	12.0	81	57	21	2.2	5.9	45	76	02A	44	43	60	60	60	52	220
02B	12/6/2012	MIN	2.37	1.03	11.3	86	61	22	1.6	5.9	65	77	02B	42	42	76	76	80	53	257
02D	12/6/2012	MIN	2.84	1.02	10.2	80	54	23	2.0	5.6	62	66	02D	44	43	55	55	64	58	306
03A	12/6/2012	MIN	2.29	1.02	11.9	89	67	19	1.3	6.2	41	74	03A	38	37	61	61	59	41	167
03B	12/6/2012	MIN	2.08	1.02	11.6	89	66	20	1.3	6.3	52	69	03B	36	34	65	65	65	46	278
03D	12/6/2012	MIN	2.52	1.03	10.7	79	53	23	2.3	5.7	54	68	03D	41	42	48	48	66	55	270
04A	12/6/2012	MIN	1.94	1.01	12.1	85	65	17	1.8	6.0	57	74	04A	46	44	72	72	63	44	143
04B	12/6/2012	MIN	1.37	1.04	10.2	89	68	19	1.1	6.2	48	45	04B	48	42	81	81	106	53	206
04D	12/6/2012	MIN	1.8	1.05	10.3	86	60	24	1.4	5.9	57	58	04D	40	41	59	59	71	55	208
05A	12/6/2012	MIN	1.55	1.04	7.7	84	65	16	1.2	6.1	30	32	05A	35	37	53	53	74	32	78
05B	12/6/2012	MIN	1.08	1.08	9.3	89	65	22	1.0	6.1	38	31	05B	37	37	65	65	77	60	186
05D	12/6/2012	MIN	1.25	1.04	10.3	89	64	23	1.1	6.0	35	40	05D	42	42	71	71	82	50	167
05R	12/6/2012	MIN	1.14	1.10	10.0	86	58	26	1.4	5.9	32	44	05R	32	36	47	47	36	53	138
06A	12/6/2012	MIN	1.43	1.05	7.8	86	61	20	1.1	6.0	69	79	06A	59	52	134	134	112	40	136
06B	12/6/2012	MIN	1.08	1.04	6.8	82	60	19	1.2	6.0	40	52	06B	62	54	120	120	103	37	136
06C	12/6/2012	MIN	1.55	0.96	9.6	87	61	22	1.2	6.1	47	78	06C	48	44	81	81	89	49	156
06D	12/6/2012	MIN	1.55	0.97	8.2	87	63	20	1.0	6.1	64	76	06D	57	49	117	117	117	44	141
06G	12/6/2012	MIN	2.6	1.05	11.8	87	59	25	1.5	5.9	72	79	06G	39	40	55	55	76	52	218
06X	12/6/2012	MIN	2.37	1.06	11.4	90	63	22	1.2	6.2	77	100	06X	43	40	62	62	97	55	279
07A	12/6/2012	MIN	1.37	1.04	9.1	87	64	20	1.2	6.3	68	60	07A	55	46	130	130	117	48	162
07B	12/6/2012	MIN	1.61	1.04	10.3	90	66	21	1.0	6.3	61	66	07B	74	57	118	118	118	44	196
07C	12/6/2012	MIN	2.52	1.04	13.2	87	62	22	1.7	6.1	77	85	07C	57	50	82	82	82	45	182
07D	12/6/2012	MIN	2.01	1.05	10.7	88	63	21	1.3	6.2	74	79	07D	65	53	108	108	106	51	175
		Avg:		1.03	10.4	86	61	21	1.5	6.0	55	66		47		78	78	82		199
		Hi:		1.10	13.2	90	68	26	2.3	6.3	77	100		74		134	134	118		306
		Lo:		0.96	6.8	76	49	16	1.0	5.6	30	31		32		47	47	36		78

Soil Nutrient Needs

Report No.: SL016340

Grower Name: Slades Creek Farms **Farm Name:** GLENN FISHER **Farm Code:** 223GSF

Smpl ID	Date	Soil Cls	m/v CEC	Last Crop	First Crop	F Crp Nitro	F Crp Phos	F Crp Potas	Smpl ID	First Crop Cu	First Crop Zn	First Crop Mn	Second Crop	Sec Cr Phos	Sec Cr Potas
01A	12/6/2012	MIN	12.2		Corn Grain	120 - 160	10	20	01A	0	0	0	Soybeans	10	20
01B	12/6/2012	MIN	11.6		Corn Grain	120 - 160	10	0	01B	0	0	0	Soybeans	10	0
01D	12/6/2012	MIN	9.8		Corn Grain	120 - 160	40	30	01D	0	0	0	Soybeans	40	30
02A	12/6/2012	MIN	12.0		Corn Grain	120 - 160	30	10	02A	0	0	0	Soybeans	30	10
02B	12/6/2012	MIN	11.3		Corn Grain	120 - 160	0	10	02B	0	0	0	Soybeans	0	10
02D	12/6/2012	MIN	10.2		Corn Grain	120 - 160	0	20	02D	0	0	0	Soybeans	0	20
03A	12/6/2012	MIN	11.9		Corn Grain	120 - 160	40	10	03A	0	0	0	Soybeans	40	10
03B	12/6/2012	MIN	11.6		Corn Grain	120 - 160	20	20	03B	0	0	0	Soybeans	20	20
03D	12/6/2012	MIN	10.7		Corn Grain	120 - 160	20	20	03D	0	0	0	Soybeans	20	20
04A	12/6/2012	MIN	12.1		Corn Grain	120 - 160	10	10	04A	0	0	0	Soybeans	10	10
04B	12/6/2012	MIN	10.2		Corn Grain	120 - 160	30	50	04B	0	0	0	Soybeans	30	50
04D	12/6/2012	MIN	10.3		Corn Grain	120 - 160	10	30	04D	0	0	0	Soybeans	10	30
05A	12/6/2012	MIN	7.7		Corn Grain	120 - 160	70	70	05A	0	0	0	Soybeans	70	70
05B	12/6/2012	MIN	9.3		Corn Grain	120 - 160	50	80	05B	0	0	0	Soybeans	50	80
05D	12/6/2012	MIN	10.3		Corn Grain	120 - 160	60	60	05D	0	0	0	Soybeans	60	60
05R	12/6/2012	MIN	10.0		Corn Grain	120 - 160	60	50	05R	0	0	0	Soybeans	60	50
06A	12/6/2012	MIN	7.8		Corn Grain	120 - 160	0	0	06A	0	0	0	Soybeans	0	0
06B	12/6/2012	MIN	6.8		Corn Grain	120 - 160	40	40	06B	0	0	0	Soybeans	40	40
06C	12/6/2012	MIN	9.6		Corn Grain	120 - 160	30	10	06C	0	0	0	Soybeans	30	10
06D	12/6/2012	MIN	8.2		Corn Grain	120 - 160	0	10	06D	0	0	0	Soybeans	0	10
06G	12/6/2012	MIN	11.8		Corn Grain	120 - 160	0	0	06G	0	0	0	Soybeans	0	0
06X	12/6/2012	MIN	11.4		Corn Grain	120 - 160	0	0	06X	0	0	0	Soybeans	0	0
07A	12/6/2012	MIN	9.1		Corn Grain	120 - 160	0	30	07A	0	0	0	Soybeans	0	30
07B	12/6/2012	MIN	10.3		Corn Grain	120 - 160	10	20	07B	0	0	0	Soybeans	10	20
07C	12/6/2012	MIN	13.2		Corn Grain	120 - 160	0	0	07C	0	0	0	Soybeans	0	0
07D	12/6/2012	MIN	10.7		Corn Grain	120 - 160	0	0	07D	0	0	0	Soybeans	0	0

Avg: 10.4
Hi: 13.2
Lo: 6.8