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2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

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## AN EQUAL OPPORTUNITY EMPLOYER

Report Date: 9 Aug 2023 Work Order #: 202311-01723

Account #: 043745

Purchase Order Number: CREDIT CARD

Date Received: 12 Jul 2023

NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B1-A

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188572

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	318	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	72.3	ppm	13 Jul 2023	TMM
Ammonium	24.0	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.19	wt. %	7 Aug 2023	BBH
Nitrogen	0.31	wt %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B1-B

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188573

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	320	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	32.4	ppm	13 Jul 2023	TMM
Ammonium	1.8	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.47	wt. %		
Nitrogen	0.32	wt %		



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B1-C

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188574

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	319	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	35.5	ppm	13 Jul 2023	TMM
Ammonium	2.5	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	3.51	wt. %		
Nitrogen	0.32	wt %		



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439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B1-D

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188575

ANALYSES	Results	Date Analyzed Analyst
Bray-I Phosphorus	315 ppm	13 Jul 2023 TMM
Nitrate-Nitrogen	41.9 ppm	13 Jul 2023 TMM
Ammonium	1.8 ppm N-	NH4 14 Jul 2023 TMM
Carbon	3.51 wt. %	
Nitrogen	0.32 wt %	



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Soil Sample Identification: B1-E

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188576

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	312	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	32.2	ppm	13 Jul 2023	TMM
Ammonium	0.4	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.72	wt. %	7 Aug 2023	BBH
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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ST PAUL MN 55108-6028

Soil Sample Identification: B1-F

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188577

ANALYSES	Results	D	Date Analyzed	Analyst
Bray-I Phosphorus	287 ppi	m 1	.3 Jul 2023	тмм
Nitrate-Nitrogen	36.9 pp	m 1	.3 Jul 2023	TMM
Ammonium	1.8 pp	m N-NH4 1	.4 Jul 2023	TMM
Carbon	3.67 wt	. %	7 Aug 2023	BBH
Nitrogen	0.33 wt	%	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B1-G

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188578

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	302	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	39.6	ppm	13 Jul 2023	TMM
Ammonium	6.3	ppm N-NH	4 14 Jul 2023	TMM
Carbon	3.69	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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ST PAUL MN 55108-6028

Soil Sample Identification: B1-H

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188579

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	295	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	41.3	ppm	13 Jul 2023	TMM
Ammonium	3.7	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.67	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B1-I

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188580

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	314	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	28.0	ppm	13 Jul 2023	TMM
Ammonium	3.3	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.58	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B2-A

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188581

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	304	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	29.4	ppm	13 Jul 2023	TMM
Ammonium	5.1	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	3.39	wt. %	7 Aug 2023	BBH
Nitrogen	0.32	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B2-B

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188582

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	310	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	15.5	ppm	13 Jul 2023	TMM
Ammonium	1.4	ppm N-NH4	4 14 Jul 2023	TMM
Carbon	3.30	wt. %	7 Aug 2023	BBH
Nitrogen	0.30	wt %	7 Aug 2023	BBH



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ST PAUL MN 55108-6028

Soil Sample Identification: B2-C

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188583

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	297	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	26.6	ppm	13 Jul 2023	TMM
Ammonium	5.0	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.48	wt. %	7 Aug 2023	BBH
Nitrogen	0.32	wt %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B2-D

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188584

ANALYSES	Results	Γ	Date Analyzed	Analyst
Bray-I Phosphorus	312 pp	om 1	13 Jul 2023	тмм
Nitrate-Nitrogen	42.0 pp	om 1	13 Jul 2023	TMM
Ammonium	2.0 pp	m N-NH4 1	14 Jul 2023	TMM
Carbon	3.67 wt	. %	7 Aug 2023	BBH
Nitrogen	0.33 wt	. %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B2-E

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188585

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	288	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	35.7	ppm	13 Jul 2023	TMM
Ammonium	2.6	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	3.61	wt. %	7 Aug 2023	BBH
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B2-F

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188586

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	304	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	30.9	ppm	13 Jul 2023	TMM
Ammonium	3.1	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.64	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B2-G

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188587

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	302	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	40.8	ppm	13 Jul 2023	TMM
Ammonium	3.5	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.71	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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Soil Sample Identification: B2-H

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188588

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	300	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	36.8	ppm	13 Jul 2023	TMM
Ammonium	4.7	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.73	wt. %	7 Aug 2023	BBH
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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## AN EQUAL OPPORTUNITY EMPLOYER

Report Date: 9 Aug 2023 Work Order #: 202311-01723

Account #: 043745

Purchase Order Number: CREDIT CARD

Date Received: 12 Jul 2023

NIC JELINSKI

ST PAUL MN 55108-6028

U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B2-1

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188589

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	303	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	32.9	ppm	13 Jul 2023	TMM
Ammonium	1.7	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.67	wt. %	7 Aug 2023	BBH
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B3-A

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188590

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	292	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	28.3	ppm	13 Jul 2023	TMM
Ammonium	1.0	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	3.55	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B3-B

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188591

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	313	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	27.3	ppm	13 Jul 2023	TMM
Ammonium	3.4	ppm N-NH4	l 14 Jul 2023	TMM
Carbon	3.57	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B3-C

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188592

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	305	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	28.0	ppm	13 Jul 2023	TMM
Ammonium	1.0	ppm N-NH4	l 14 Jul 2023	TMM
Carbon	3.69	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B3-D

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188593

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	307	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	33.5	ppm	13 Jul 2023	TMM
Ammonium	3.3	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.80	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	ввн



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B3-E

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188594

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	308	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	25.2	ppm	13 Jul 2023	TMM
Ammonium	3.0	ppm N-NH4	l 14 Jul 2023	TMM
Carbon	3.81	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B3-F

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188595

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	301	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	34.5	ppm	13 Jul 2023	TMM
Ammonium	5.1	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.87	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	ввн



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B3-G

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188596

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	313 p	pm	13 Jul 2023	тмм
Nitrate-Nitrogen	44.2 p	·pm	13 Jul 2023	TMM
Ammonium	1.6 p	pm N-NH4	14 Jul 2023	TMM
Carbon	3.93 w	rt. %	7 Aug 2023	BBH
Nitrogen	0.36 w	rt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B3-H

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188597

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	304	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	41.1	ppm	13 Jul 2023	TMM
Ammonium	1.9	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	3.91	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B3-I

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188598

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	306	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	46.9	ppm	13 Jul 2023	TMM
Ammonium	4.9	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	4.03	wt. %	7 Aug 2023	BBH
Nitrogen	0.37	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B4-A

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188599

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	299	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	36.3	ppm	13 Jul 2023	TMM
Ammonium	5.5	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	3.65	wt. %	7 Aug 2023	BBH
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B4-B

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188600

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	298	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	34.9	ppm	13 Jul 2023	TMM
Ammonium	0.3	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.63	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B4-C

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188601

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	300	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	43.3	ppm	13 Jul 2023	TMM
Ammonium	1.6	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.63	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	ввн



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B4-I

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188602

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	305	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	33.6	ppm	13 Jul 2023	TMM
Ammonium	1.1	ppm N-NH4	1 14 Jul 2023	TMM
Carbon	4.01	wt. %	7 Aug 2023	BBH
Nitrogen	0.36	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE

439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B4-E

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188603

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	308	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	50.4	ppm	13 Jul 2023	TMM
Ammonium	1.5	ppm N-NH4	l 14 Jul 2023	TMM
Carbon	3.76	wt. %	7 Aug 2023	BBH
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B4-F

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188604

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	310 r	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	45.7 g	ppm	13 Jul 2023	TMM
Ammonium	0.3 I	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.89 v	wt. %	7 Aug 2023	ВВН
Nitrogen	0.36 v	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B4-G

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188605

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	310 p	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	54.1 r	ppm .	13 Jul 2023	TMM
Ammonium	0.3 r	ppm N-NH4	14 Jul 2023	TMM
Carbon	4.05 w	wt. %	7 Aug 2023	BBH
Nitrogen	0.36 w	wt %	7 Aug 2023	BBH



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Account #: 043745

Purchase Order Number: CREDIT CARD

Date Received: 12 Jul 2023

NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

ST PAUL MN 55108-6028

Soil Sample Identification: B4-H

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188606

ANALYSES	Results	Date Analyzed	Analyst
Bray-I Phosphorus	315 ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	57.0 ppm	13 Jul 2023	TMM
Ammonium	6.3 ppm N-	NH4 14 Jul 2023	TMM
Carbon	4.04 wt. %	7 Aug 2023	BBH
Nitrogen	0.37 wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B4-I

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188607

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	306	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	50.9	ppm	13 Jul 2023	TMM
Ammonium	2.4	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.85	wt. %	7 Aug 2023	BBH
Nitrogen	0.36	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B5-A

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188608

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	311	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	51.0	ppm	13 Jul 2023	TMM
Ammonium	0.6	ppm N-NH4	l 14 Jul 2023	TMM
Carbon	3.63	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B5-E

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188609

ANALYSES	Results	Date Analyzed Analyst	
Bray-I Phosphorus	317 ppn	13 Jul 2023 TMM	
Nitrate-Nitrogen	31.2 ppr	13 Jul 2023 TMM	
Ammonium	1.3 ppm	N-NH4 14 Jul 2023 TMM	
Carbon	3.66 wt.	% 7 Aug 2023 BBH	
Nitrogen	0.34 wt	% 7 Aug 2023 BBH	



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B5-C

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188610

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	318	ppm	13 Jul 2023	TMM
Nitrate-Nitrogen	31.6	ppm	13 Jul 2023	TMM
Ammonium	2.9	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.62	wt. %	7 Aug 2023	BBH
Nitrogen	0.32	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B5-D

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188611

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	294	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	25.3	ppm	13 Jul 2023	TMM
Ammonium	1.7	ppm N-NH4	14 Jul 2023	TMM
Carbon		wt. %	7 Aug 2023	ВВН
Nitrogen	0.34	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B5-E

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188612

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	295	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	29.5	ppm	13 Jul 2023	TMM
Ammonium	2.0	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.68	wt. %	7 Aug 2023	BBH
Nitrogen	0.33	wt %	7 Aug 2023	BBH



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NIC JELINSKI

U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B5-F

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188613

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	305	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	34.9	ppm	13 Jul 2023	TMM
Ammonium	1.5	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.70	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL

1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B5-G

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188614

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	306	ppm	13 Jul 2023	TMM
Nitrate-Nitrogen	27.7	ppm	13 Jul 2023	TMM
Ammonium	1.9	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.94	wt. %	7 Aug 2023	BBH
Nitrogen	0.35	wt %	7 Aug 2023	BBH



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NIC JELINSKI U OF MN - SOIL WATER CLIMATE 439 BORLAUG HALL 1991 UPPER BUFORD CIRCLE

Soil Sample Identification: B5-H

ST PAUL MN 55108-6028

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188615

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	306	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	26.8	ppm	13 Jul 2023	TMM
Ammonium	1.6	ppm N-NH4	l 14 Jul 2023	TMM
Carbon	4.06	wt. %	7 Aug 2023	BBH
Nitrogen	0.36	wt %	7 Aug 2023	BBH



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1991 UPPER BUFORD CIRCLE ST PAUL MN 55108-6028

Soil Sample Identification: B5-I

Farmer Name: Cardboard mulch research plots

Field ID: K1E pre-planting

Soil Laboratory Number: 23-A188616

ANALYSES	Results		Date Analyzed	Analyst
Bray-I Phosphorus	308	ppm	13 Jul 2023	тмм
Nitrate-Nitrogen	27.7	ppm	13 Jul 2023	TMM
Ammonium	0.6	ppm N-NH4	14 Jul 2023	TMM
Carbon	3.95	wt. %	7 Aug 2023	BBH
Nitrogen	0.36	wt %	7 Aug 2023	ввн