

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

DAIRY FACILITY INFORMATION**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** Capstone Ranch

Physical address of dairy:

14221 Ave 14 Number and Street	Madera City	Madera County	93637 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 01/15/1997Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0043-0046-0002-0000	0043-0046-0003-0000	0043-0052-0001-0000	0043-0052-0003-0000	0043-0052-0004-0000	0043-0052-0005-0000
0043-0052-0006-0000					

B. OPERATORS

Houweling, Len

Operator name: <u>Houweling, Len</u>	Telephone no.: <u>(559) 664-0940</u>	<u>Landline</u>	<u>(559) 664-0940</u>	<u>Cellular</u>
14221 14221 Avenue 14 Mailing Address Number and Street	Madera City	CA State	93637 Zip Code	

VanderMeulen, Theo

Operator name: <u>VanderMeulen, Theo</u>	Telephone no.: <u>(559) 664-0940</u>	<u>Landline</u>	<u>(559) 664-0940</u>	<u>Cellular</u>
14221 Ave 14 Mailing Address Number and Street	Madera City	CA State	93637 Zip Code	

C. OWNERS

Diepersloot, Robert

Legal owner name: <u>Diepersloot, Robert</u>	Telephone no.: <u>(559) 664-0940</u>	<u>Landline</u>	<u>(559) 664-0940</u>	<u>Cellular</u>
14221 Aven 14221 Avenue 14 Mailing Address Number and Street	Madera City	CA State	93637 Zip Code	

This owner is responsible for paying permit fees.

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

AVAILABLE NUTRIENTS**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	400	0	0	0	0
Number under roof	3,600	0	0	0	0	0
Maximum number	3,600	400	0	0	0	0
Average number	3,600	400	0	0	0	0
Avg live weight (lbs)	1,400	1,400	0	0		

Predominant milk cow breed: Holstein

Average milk production: 85 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 104,485.49 tons per reporting period

Total nitrogen from manure: 1,363,229.20 lbs per reporting period

After ammonia losses (30% loss applied): 954,260.44 lbs per reporting period

Total phosphorus from manure: 229,272.03 lbs per reporting period

Total potassium from manure: 724,911.22 lbs per reporting period

Total salt from manure: 1,787,040.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 136,947,000 gallons

Total nitrogen generated: 624,859.04 lbs

Total phosphorus generated: 65,674.52 lbs

Total potassium generated: 582,785.10 lbs

Total salt generated: 5,014,735.90 lbs

$$\begin{aligned}
 & 136,947,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 136,947,000 \text{ gallons generated}
 \end{aligned}$$

D. FRESH WATER SOURCES

Source Description	Type
10	Ground water
11	Ground water
13	Ground water
15	Ground water
16	Ground water

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

Source Description	Type
2	Ground water
21	Ground water
22	Ground water
23	Ground water
3	Ground water
35	Ground water
6	Ground water
61	Ground water
66	Ground water
7	Ground water
9	Ground water
D-14	Ground water
D-19	Ground water
D-7/8	Ground water
M.I.D Water	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	77	77	2	process wastewater	0043-0052-0003-0000
11	71	71	2	process wastewater	0043-0043-0002-0000
12/13	81	81	2	process wastewater	0043-0043-0002-0000
14	78	78	2	process wastewater	0043-0043-0002-0000
15	77	77	2	process wastewater	0043-0046-0003-0000
16	52	52	2	process wastewater	0043-0046-0003-0000
17	82	82	2	process wastewater	0043-0046-0003-0000
18	44	44	2	process wastewater	0043-0046-0003-0000
19	40	40	2	process wastewater	0043-0046-0003-0000
2	77	77	2	process wastewater	0043-0052-0003-0000
3	77	77	2	process wastewater	0043-0052-0006-0000
4	76	76	2	process wastewater	0043-0052-0005-0000 0043-0052-0006-0000
5	80	80	2	process wastewater	0043-0052-0001-0000
6	44	44	2	process wastewater	0043-0052-0001-0000
9/10	77	77	2	process wastewater	0043-0043-0002-0000
Totals for areas that were used for application	1,033	1,033	30		
Totals for areas that were not used for application					
Land application area totals	1,033	1,033	30		

B. CROPS AND HARVESTS

1

Field name: 1

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

1

10/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,954.00 ton	Dry-weight		62.3	15,700.00	2,680.00	13,700.00		5.35

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	25.38	300.40	51.28	262.14	1,023.67

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,760.00 ton	Dry-weight		65.6	11,400.00	1,910.00	11,100.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	35.84	281.13	47.10	273.73	1,479.65

11

Field name: 11

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,740.00 ton	Dry-weight		69.8	15,700.00	2,350.00	17,100.00		9.37

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.51	232.40	34.79	253.12	1,386.97

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

11

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 71 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	2,422.00 <i>ton</i>	Dry-weight		71.6	10,900.00	1,820.00	13,700.00		6.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	34.11	211.20	35.26	265.45	1,253.63

12/13

Field name: 12/13

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 81 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,879.00 <i>ton</i>	Dry-weight		67.0	18,800.00	2,500.00	14,100.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.20	287.83	38.28	215.88	1,592.28

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 81 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,650.00 <i>ton</i>	Dry-weight		70.4	11,200.00	1,890.00	12,300.00		5.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.72	216.92	36.61	238.23	1,156.26

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

14Field name: 14

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/19/2023	1,768.00 ton	Dry-weight		46.2	23,200.00	3,470.00	31,800.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	22.67	565.83	84.63	775.58	3,121.83

05/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 05/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	2,605.00 ton	Dry-weight		69.2	11,300.00	1,580.00	9,860.00		5.16

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.40	232.47	32.51	202.85	1,061.56

15Field name: 15

11/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,871.00 ton	Dry-weight		79.8	20,700.00	2,530.00	21,000.00		8.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.30	203.21	24.84	206.15	832.45

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

15

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,547.00 <i>ton</i>	Dry-weight		72.4	15,300.00	2,280.00	13,500.00		6.16
Anticipated harvest content									
Total actual harvest content									

16

Field name: 16

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 52 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,227.00 <i>ton</i>	Dry-weight		61.4	14,500.00	1,930.00	13,400.00		7.85
Anticipated harvest content									
Total actual harvest content									

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 52 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	1,690.00 <i>ton</i>	Dry-weight		70.8	13,100.00	1,960.00	14,400.00		6.10
Anticipated harvest content									
Total actual harvest content									

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

17

Field name: 17

11/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 82 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,912.00 ton	Dry-weight		65.2	15,400.00	2,380.00	17,000.00		9.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.32	249.92	38.62	275.89	1,538.48

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 82 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,682.00 ton	Dry-weight		71.2	11,900.00	1,580.00	14,200.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.71	224.19	29.77	267.52	1,073.85

18

Field name: 18

12/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 12/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/18/2023	1,096.00 ton	Dry-weight		60.2	23,800.00	3,490.00	29,300.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.91	471.90	69.20	580.95	2,319.83

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

18

05/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 05/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	1,480.00 <i>ton</i>	Dry-weight		67.6	8,960.00	1,350.00	1,350.00		5.39
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				0.00			
Total actual harvest content		33.64 195.30 29.43 29.43				1,174.82			

19

Field name: 19

10/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	949.00 <i>ton</i>	Dry-weight		70.8	17,700.00	2,420.00	17,200.00		9.74
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		18.00 198.00 30.60 149.40				0.00			
Total actual harvest content		23.73 245.24 33.53 238.31				1,349.52			

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,346.00 <i>ton</i>	Dry-weight		67.8	10,600.00	1,800.00	18,000.00		6.54
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				0.00			
Total actual harvest content		33.65 229.71 39.01 390.07				1,417.26			

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

2

Field name: 2

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,896.00 ton	Dry-weight		61.4	14,800.00	2,670.00	14,000.00		12.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.62	281.34	50.75	266.13	2,395.17

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	2,640.00 ton	Dry-weight		70.6	10,500.00	2,210.00	12,900.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	34.29	211.68	44.55	260.06	1,270.08

3

Field name: 3

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,820.00 ton	Dry-weight		63.6	14,600.00	2,170.00	15,500.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.64	251.23	37.34	266.71	1,669.11

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

3

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,595.00 <i>ton</i>	Dry-weight		69.0	10,500.00	2,260.00	11,000.00		5.17

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.70	219.40	47.22	229.84	1,080.26

4

Field name: 4

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,853.00 <i>ton</i>	Dry-weight		65.4	14,300.00	1,770.00	11,700.00		9.83

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.38	241.27	29.86	197.40	1,658.52

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	2,525.00 <i>ton</i>	Dry-weight		67.2	9,520.00	2,330.00	11,400.00		5.71

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.22	207.49	50.78	248.46	1,244.48

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

5

Field name: 5

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	2,017.00 ton	Dry-weight		67.4	16,400.00	2,210.00	15,300.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	25.21	269.59	36.33	251.51	1,923.31

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,581.00 ton	Dry-weight		66.4	11,100.00	2,100.00	12,900.00		5.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.26	240.65	45.53	279.68	1,296.49

6

Field name: 6

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	989.00 ton	Dry-weight		67.2	13,200.00	2,220.00	15,600.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	22.48	194.64	32.73	230.02	1,710.43

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

6

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	1,420.00 <i>ton</i>	Dry-weight		69.0	13,300.00	1,830.00	11,400.00		5.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.27	266.12	36.62	228.10	1,150.52

9/10

Field name: 9/10

10/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 10/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,752.00 <i>ton</i>	Dry-weight		66.8	17,000.00	2,130.00	11,300.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	22.75	256.84	32.18	170.72	1,571.25

05/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 05/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	2,563.00 <i>ton</i>	Dry-weight		73.0	11,300.00	2,000.00	16,600.00		6.44

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.29	203.11	35.95	298.37	1,157.54

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 10/28/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
10/13/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22	Ground water	0.00	0.00	0.00	210.65	4,180,000.00 gal
Application event totals		0.00	0.00	0.00	210.65	
12/09/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	365.72	42.33	340.94	2,531.93	6,180,500.00 gal
Application event totals		365.72	42.33	340.94	2,531.93	
01/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.50	0.00	0.00	110.27	9,250,000.00 gal
Application event totals		0.50	0.00	0.00	110.27	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.60	0.00	0.00	133.06	11,161,250.00 gal
Application event totals		0.60	0.00	0.00	133.06	
03/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.83	0.00	0.00	182.62	15,318,750.00 gal
Application event totals		0.83	0.00	0.00	182.62	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

1 - 10/28/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.63	0.00	0.00	137.60	11,542,500.00 gal
Application event totals		0.63	0.00	0.00	137.60	
04/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.54	0.00	0.00	118.95	9,977,500.00 gal
Application event totals		0.54	0.00	0.00	118.95	

1 - 06/27/2023: Corn, silage

Field name:	1					
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.09	0.00	0.00	238.97	20,045,000.00 gal
Application event totals		1.09	0.00	0.00	238.97	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.36	0.00	0.00	78.71	6,602,500.00 gal
Application event totals		0.36	0.00	0.00	78.71	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.47	0.00	0.00	103.38	8,672,143.00 gal
Application event totals		0.47	0.00	0.00	103.38	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

1 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	294.39	23.80	284.54	2,670.30	5,049,000.00 gal
Application event totals		294.39	23.80	284.54	2,670.30	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	130.47	10,944,000.00 gal
Application event totals		0.59	0.00	0.00	130.47	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.83	0.00	0.00	182.34	15,295,000.00 gal
Application event totals		0.83	0.00	0.00	182.34	

11 - 11/04/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/07/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	240.86	22.25	233.01	2,111.93	3,712,500.00 gal
Application event totals		240.86	22.25	233.01	2,111.93	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.33	0.00	0.00	72.19	5,584,000.00 gal
Application event totals		0.33	0.00	0.00	72.19	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

11 - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.60	0.00	0.00	131.60	10,178,750.00 gal
Application event totals		0.60	0.00	0.00	131.60	
03/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.57	0.00	0.00	125.47	9,705,000.00 gal
Application event totals		0.57	0.00	0.00	125.47	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	122.82	9,500,000.00 gal
Application event totals		0.56	0.00	0.00	122.82	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.68	0.00	0.00	149.13	11,535,000.00 gal
Application event totals		0.68	0.00	0.00	149.13	

11 - 06/07/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	145.07	19.66	128.50	1,154.12	2,273,000.00 gal
Application event totals		145.07	19.66	128.50	1,154.12	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

11 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.55	0.00	0.00	120.46	9,317,500.00 gal
Application event totals		0.55	0.00	0.00	120.46	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	122.52	9,476,250.00 gal
Application event totals		0.56	0.00	0.00	122.52	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	109.24	8.83	105.58	990.85	1,727,500.00 gal
Application event totals		109.24	8.83	105.58	990.85	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.53	0.00	0.00	117.36	9,077,500.00 gal
Application event totals		0.53	0.00	0.00	117.36	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	124.27	9,612,000.00 gal
Application event totals		0.56	0.00	0.00	124.27	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.61	0.00	0.00	133.51	10,326,250.00 gal
Application event totals		0.61	0.00	0.00	133.51	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

11 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.60	0.00	0.00	132.52
Application event totals		0.60	0.00	0.00	132.52
					10,250,000.00 gal

12/13 - 11/12/2022: Wheat, silage, soft dough

Field name: 12/13

Crop: Wheat, silage, soft dough Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/03/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater Application	Process wastewater	152.01	14.04	147.06	1,332.86
Application event totals		152.01	14.04	147.06	1,332.86
12/05/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.36	0.00	0.00	79.16
Application event totals		0.36	0.00	0.00	79.16
01/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater Application	Process wastewater	192.26	17.76	185.99	1,685.78
Application event totals		192.26	17.76	185.99	1,685.78
01/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.25	0.00	0.00	55.98
Application event totals		0.25	0.00	0.00	55.98

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

12/13 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.34	0.00	0.00	75.58	6,669,000.00 gal
Application event totals		0.34	0.00	0.00	75.58	
03/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.19	0.00	0.00	42.80	3,776,250.00 gal
Application event totals		0.19	0.00	0.00	42.80	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.26	0.00	0.00	58.14	5,130,000.00 gal
Application event totals		0.26	0.00	0.00	58.14	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	92.59	8,170,000.00 gal
Application event totals		0.42	0.00	0.00	92.59	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.48	0.00	0.00	106.58	9,405,000.00 gal
Application event totals		0.48	0.00	0.00	106.58	

12/13 - 06/03/2023: Corn, silage

Field name: 12/13

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

12/13 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	177.23	24.02	156.99	1,409.97	3,168,000.00 gal
Application event totals		177.23	24.02	156.99	1,409.97	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	91.51	8,075,000.00 gal
Application event totals		0.42	0.00	0.00	91.51	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	92.86	8,193,750.00 gal
Application event totals		0.42	0.00	0.00	92.86	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.38	0.00	0.00	83.98	7,410,000.00 gal
Application event totals		0.38	0.00	0.00	83.98	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	197.54	15.97	190.93	1,791.84	3,564,000.00 gal
Application event totals		197.54	15.97	190.93	1,791.84	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.29	0.00	0.00	64.14	5,659,286.00 gal
Application event totals		0.29	0.00	0.00	64.14	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

12/13 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.33	0.00	0.00	71.86	6,341,250.00 gal
Application event totals		0.33	0.00	0.00	71.86	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.34	0.00	0.00	74.93	6,612,000.00 gal
Application event totals		0.34	0.00	0.00	74.93	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.16	0.00	0.00	36.07	3,182,500.00 gal
Application event totals		0.16	0.00	0.00	36.07	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.41	0.00	0.00	89.79	7,923,000.00 gal
Application event totals		0.41	0.00	0.00	89.79	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	92.37	8,151,000.00 gal
Application event totals		0.42	0.00	0.00	92.37	
10/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.21	0.00	0.00	47.16	4,161,000.00 gal
Application event totals		0.21	0.00	0.00	47.16	

14 - 11/22/2022: Wheat, silage, soft dough

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

14 - 11/22/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6	Ground water	41.97	0.00	0.00	785.71	8,640,000.00 gal
Application event totals		41.97	0.00	0.00	785.71	
01/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	377.70	34.90	365.38	3,311.70	6,395,500.00 gal
Application event totals		377.70	34.90	365.38	3,311.70	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.90	0.00	0.00	197.05	16,743,750.00 gal
Application event totals		0.90	0.00	0.00	197.05	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.14	0.00	0.00	251.55	21,375,000.00 gal
Application event totals		1.14	0.00	0.00	251.55	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	92.57	7,866,000.00 gal
Application event totals		0.42	0.00	0.00	92.57	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	186.93	21.64	174.26	1,294.12	3,200,000.00 gal
Application event totals		186.93	21.64	174.26	1,294.12	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

14 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.38	0.00	0.00	82.73
Application event totals		0.38	0.00	0.00	82.73

14 - 05/16/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 05/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.56	0.00	0.00	124.10
Application event totals		0.56	0.00	0.00	124.10
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.24	0.00	0.00	52.99
Application event totals		0.24	0.00	0.00	52.99
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
M.I.D Water	Surface water	0.23	0.00	0.00	49.64
Application event totals		0.23	0.00	0.00	49.64
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater Application	Process wastewater	264.97	21.42	256.11	2,403.48
Application event totals		264.97	21.42	256.11	2,403.48

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

14 - 05/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	114.04	9,690,000.00 gal
Application event totals		0.52	0.00	0.00	114.04	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.27	0.00	0.00	59.70	5,073,000.00 gal
Application event totals		0.27	0.00	0.00	59.70	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.69	11,020,000.00 gal
Application event totals		0.59	0.00	0.00	129.69	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.88	0.00	0.00	193.42	16,435,000.00 gal
Application event totals		0.88	0.00	0.00	193.42	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
61	Ground water	1.86	0.00	0.00	205.87	8,950,000.00 gal
Application event totals		1.86	0.00	0.00	205.87	

15 - 11/19/2022: Wheat, silage, soft dough

Field name: 15

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

15 - 11/19/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
2	Ground water	18.89	0.00	0.00	395.19	6,180,500.00 gal
Application event totals		18.89	0.00	0.00	395.19	
01/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	228.47	26.45	212.99	1,581.71	3,861,000.00 gal
Application event totals		228.47	26.45	212.99	1,581.71	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.96	0.00	0.00	211.78	17,765,000.00 gal
Application event totals		0.96	0.00	0.00	211.78	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.80	0.00	0.00	174.98	14,677,500.00 gal
Application event totals		0.80	0.00	0.00	174.98	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	43.60	3,657,500.00 gal
Application event totals		0.20	0.00	0.00	43.60	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.61	0.00	0.00	133.19	11,172,000.00 gal
Application event totals		0.61	0.00	0.00	133.19	

15 - 06/15/2023: Corn, silage

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

15 - 06/15/2023: Corn, silage

Field name: 15

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.47	0.00	0.00	103.06	8,645,000.00 gal
Application event totals		0.47	0.00	0.00	103.06	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	91.74	7,695,000.00 gal
Application event totals		0.42	0.00	0.00	91.74	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.37	0.00	0.00	81.91	6,871,000.00 gal
Application event totals		0.37	0.00	0.00	81.91	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.38	0.00	0.00	84.46	7,085,000.00 gal
Application event totals		0.38	0.00	0.00	84.46	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.49	0.00	0.00	107.90	9,051,250.00 gal
Application event totals		0.49	0.00	0.00	107.90	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	349.87	28.29	338.16	3,173.53	6,000,500.00 gal
Application event totals		349.87	28.29	338.16	3,173.53	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

15 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.58	0.00	0.00	127.41	10,687,500.00 gal
Application event totals		0.58	0.00	0.00	127.41	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.46	0.00	0.00	101.87	8,545,000.00 gal
Application event totals		0.46	0.00	0.00	101.87	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.48	0.00	0.00	104.85	8,795,000.00 gal
Application event totals		0.48	0.00	0.00	104.85	

16 - 11/30/2022: Wheat, silage, soft dough

Field name:	16	Plant date:	11/30/2022	
Crop:	Wheat, silage, soft dough			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	
10/27/2022	Surface (irrigation)	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Wastewater Application	Process wastewater	140.05	12.94	135.49
Application event totals		140.05	12.94	135.49
10/15/2023	Surface (irrigation)	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
3	Ground water	24.25	0.00	0.00
Application event totals		24.25	0.00	0.00

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

16 - 11/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	164.03	18.99	152.91	1,135.59	1,872,000.00 gal
Application event totals		164.03	18.99	152.91	1,135.59	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.42	0.00	0.00	311.93	17,670,000.00 gal
Application event totals		1.42	0.00	0.00	311.93	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.25	0.00	0.00	275.87	15,627,500.00 gal
Application event totals		1.25	0.00	0.00	275.87	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3	Ground water	23.25	0.00	0.00	477.43	3,500,000.00 gal
Application event totals		23.25	0.00	0.00	477.43	

16 - 06/28/2023: Corn, silage

Field name: 16

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	279.77	37.92	247.82	2,225.77	3,210,500.00 gal
Application event totals		279.77	37.92	247.82	2,225.77	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

16 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.85	0.00	0.00	187.41	10,616,250.00 gal
Application event totals		0.85	0.00	0.00	187.41	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.70	0.00	0.00	152.94	8,664,000.00 gal
Application event totals		0.70	0.00	0.00	152.94	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
9	Ground water	8.55	0.00	0.00	212.64	2,650,000.00 gal
Application event totals		8.55	0.00	0.00	212.64	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
9	Ground water	6.79	0.00	0.00	168.91	2,105,000.00 gal
Application event totals		6.79	0.00	0.00	168.91	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.74	0.00	0.00	162.00	9,177,000.00 gal
Application event totals		0.74	0.00	0.00	162.00	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.92	0.00	0.00	203.40	11,522,143.00 gal
Application event totals		0.92	0.00	0.00	203.40	

17 - 11/28/2022: Wheat, silage, soft dough

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

17 - 11/28/2022: Wheat, silage, soft dough

Field name: 17

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/21/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	300.57	27.77	290.77	2,635.43	5,350,500.00 gal
Application event totals		300.57	27.77	290.77	2,635.43	
02/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.31	0.00	0.00	69.19	6,180,500.00 gal
Application event totals		0.31	0.00	0.00	69.19	
03/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.71	0.00	0.00	157.13	14,036,250.00 gal
Application event totals		0.71	0.00	0.00	157.13	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.81	0.00	0.00	177.39	15,846,000.00 gal
Application event totals		0.81	0.00	0.00	177.39	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.85	0.00	0.00	186.96	16,701,000.00 gal
Application event totals		0.85	0.00	0.00	186.96	

17 - 06/22/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 06/22/2023

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

17 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6	Ground water	31.65	0.00	0.00	592.55	6,850,000.00 gal
Application event totals		31.65	0.00	0.00	592.55	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.94	0.00	0.00	206.58	18,453,750.00 gal
Application event totals		0.94	0.00	0.00	206.58	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.40	0.00	0.00	87.42	7,809,000.00 gal
Application event totals		0.40	0.00	0.00	87.42	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.63	0.00	0.00	137.99	12,326,250.00 gal
Application event totals		0.63	0.00	0.00	137.99	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	262.83	21.25	254.04	2,384.07	4,800,500.00 gal
Application event totals		262.83	21.25	254.04	2,384.07	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.47	0.00	0.00	102.73	9,177,000.00 gal
Application event totals		0.47	0.00	0.00	102.73	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

17 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.83	0.00	0.00	183.13	16,359,000.00 gal
Application event totals		0.83	0.00	0.00	183.13	

18 - 12/12/2022: Wheat, silage, soft dough

Field name: 18

Crop: Wheat, silage, soft dough

Plant date: 12/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
66	Ground water	32.56	0.00	0.00	760.15	6,680,000.00 gal
Application event totals		32.56	0.00	0.00	760.15	
02/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	405.57	46.94	378.09	2,807.78	3,916,500.00 gal
Application event totals		405.57	46.94	378.09	2,807.78	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.78	0.00	0.00	172.01	8,245,000.00 gal
Application event totals		0.78	0.00	0.00	172.01	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.80	0.00	0.00	175.09	8,392,500.00 gal
Application event totals		0.80	0.00	0.00	175.09	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

18 - 05/19/2023: Corn, silage

Field name: 18

Crop: Corn, silage

Plant date: 05/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	127.24	17.25	112.71	1,012.28	1,235,500.00 gal
Application event totals		127.24	17.25	112.71	1,012.28	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.46	0.00	0.00	102.07	4,892,500.00 gal
Application event totals		0.46	0.00	0.00	102.07	
06/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.53	0.00	0.00	116.54	5,586,000.00 gal
Application event totals		0.53	0.00	0.00	116.54	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.45	0.00	0.00	99.10	4,750,000.00 gal
Application event totals		0.45	0.00	0.00	99.10	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	116.65	13.50	108.75	807.60	1,126,500.00 gal
Application event totals		116.65	13.50	108.75	807.60	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.72	0.00	0.00	157.56	7,552,500.00 gal
Application event totals		0.72	0.00	0.00	157.56	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

18 - 05/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.35	0.00	0.00	77.30	3,705,000.00 gal
Application event totals		0.35	0.00	0.00	77.30	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.60	0.00	0.00	132.79	6,365,000.00 gal
Application event totals		0.60	0.00	0.00	132.79	

19 - 10/29/2022: Wheat, silage, soft dough

Field name: 19

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/07/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
66	Ground water	26.93	0.00	0.00	628.63	5,022,000.00 gal
Application event totals		26.93	0.00	0.00	628.63	
01/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	193.82	17.91	187.50	1,699.40	1,683,000.00 gal
Application event totals		193.82	17.91	187.50	1,699.40	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	122.21	5,325,500.00 gal
Application event totals		0.56	0.00	0.00	122.21	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

19 - 10/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.54	0.00	0.00	118.89	5,180,500.00 gal
Application event totals		0.54	0.00	0.00	118.89	
04/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	123.69	5,390,000.00 gal
Application event totals		0.56	0.00	0.00	123.69	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.58	0.00	0.00	127.42	5,552,500.00 gal
Application event totals		0.58	0.00	0.00	127.42	

19 - 06/12/2023: Corn, silage

Field name: 19

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	139.85	18.96	123.88	1,112.61	1,234,500.00 gal
Application event totals		139.85	18.96	123.88	1,112.61	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.61	0.00	0.00	134.73	5,871,000.00 gal
Application event totals		0.61	0.00	0.00	134.73	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

19 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	149.90	12.12	144.88	1,359.66	1,335,500.00 gal
Application event totals		149.90	12.12	144.88	1,359.66	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.84	0.00	0.00	184.77	8,051,250.00 gal
Application event totals		0.84	0.00	0.00	184.77	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	130.40	5,682,143.00 gal
Application event totals		0.59	0.00	0.00	130.40	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.74	0.00	0.00	163.51	7,125,000.00 gal
Application event totals		0.74	0.00	0.00	163.51	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.67	0.00	0.00	147.16	6,412,500.00 gal
Application event totals		0.67	0.00	0.00	147.16	

2 - 11/22/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

2 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/14/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
23	Ground water	1.89	0.00	0.00	103.78	4,560,000.00 gal
22	Ground water	0.00	0.00	0.00	194.78	3,865,000.00 gal
Application event totals		1.89	0.00	0.00	298.56	
12/10/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	130.84	10,975,000.00 gal
Application event totals		0.59	0.00	0.00	130.84	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.70	0.00	0.00	154.59	12,967,500.00 gal
Application event totals		0.70	0.00	0.00	154.59	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	330.57	38.26	308.17	2,288.59	5,586,500.00 gal
Application event totals		330.57	38.26	308.17	2,288.59	
03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.73	0.00	0.00	161.39	13,537,500.00 gal
Application event totals		0.73	0.00	0.00	161.39	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.51	0.00	0.00	113.09	9,486,250.00 gal
Application event totals		0.51	0.00	0.00	113.09	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

2 - 06/05/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.68	10,877,500.00 gal
Application event totals		0.59	0.00	0.00	129.68	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	122.99	10,317,000.00 gal
Application event totals		0.56	0.00	0.00	122.99	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.11	10,830,000.00 gal
Application event totals		0.59	0.00	0.00	129.11	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	238.39	19.27	230.41	2,162.32	4,088,500.00 gal
Application event totals		238.39	19.27	230.41	2,162.32	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.54	0.00	0.00	118.98	9,980,000.00 gal
Application event totals		0.54	0.00	0.00	118.98	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.54	0.00	0.00	118.92	9,975,000.00 gal
Application event totals		0.54	0.00	0.00	118.92	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

2 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.62	0.00	0.00	135.90	11,400,000.00 gal
Application event totals		0.62	0.00	0.00	135.90	

3 - 11/18/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15	Ground water	0.24	0.00	0.00	53.52	4,489,000.00 gal
Application event totals		0.24	0.00	0.00	53.52	
10/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
16	Ground water	0.33	0.00	0.00	237.02	4,860,000.00 gal
Application event totals		0.33	0.00	0.00	237.02	
01/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	313.41	36.28	292.17	2,169.78	5,296,500.00 gal
Application event totals		313.41	36.28	292.17	2,169.78	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.81	0.00	0.00	178.94	15,010,000.00 gal
Application event totals		0.81	0.00	0.00	178.94	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

3 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.72	0.00	0.00	158.33	13,281,000.00 gal
Application event totals		0.72	0.00	0.00	158.33	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.69	0.00	0.00	151.19	12,682,500.00 gal
Application event totals		0.69	0.00	0.00	151.19	
05/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.47	0.00	0.00	104.48	8,763,750.00 gal
Application event totals		0.47	0.00	0.00	104.48	

3 - 06/03/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.32	0.00	0.00	71.35	5,985,000.00 gal
Application event totals		0.32	0.00	0.00	71.35	
05/24/2023	Subsurface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	284.83	38.61	252.31	2,266.03	4,840,000.00 gal
Application event totals		284.83	38.61	252.31	2,266.03	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

3 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.83	0.00	0.00	183.47	15,390,000.00 gal
Application event totals		0.83	0.00	0.00	183.47	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.79	10,887,000.00 gal
Application event totals		0.59	0.00	0.00	129.79	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	114.06	9,567,857.00 gal
Application event totals		0.52	0.00	0.00	114.06	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.11	10,830,000.00 gal
Application event totals		0.59	0.00	0.00	129.11	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.62	0.00	0.00	135.90	11,400,000.00 gal
Application event totals		0.62	0.00	0.00	135.90	

4 - 11/04/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

4 - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/19/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
13	Ground water	10.71	0.00	0.00	251.59	5,328,600.00 gal
Application event totals		10.71	0.00	0.00	251.59	
12/05/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	149.83	13.84	144.94	1,313.73	2,472,000.00 gal
Application event totals		149.83	13.84	144.94	1,313.73	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.67	0.00	0.00	147.96	12,250,000.00 gal
Application event totals		0.67	0.00	0.00	147.96	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	151.17	17.50	140.93	1,046.56	2,521,500.00 gal
Application event totals		151.17	17.50	140.93	1,046.56	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.62	0.00	0.00	137.03	11,345,000.00 gal
Application event totals		0.62	0.00	0.00	137.03	
03/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.57	0.00	0.00	125.12	10,359,000.00 gal
Application event totals		0.57	0.00	0.00	125.12	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

4 - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	114.65	9,492,500.00 gal
Application event totals		0.52	0.00	0.00	114.65	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.40	0.00	0.00	87.72	7,262,500.00 gal
Application event totals		0.40	0.00	0.00	87.72	

4 - 06/09/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.09	10,687,500.00 gal
Application event totals		0.59	0.00	0.00	129.09	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.40	0.00	0.00	88.64	7,338,750.00 gal
Application event totals		0.40	0.00	0.00	88.64	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.45	0.00	0.00	99.83	8,265,000.00 gal
Application event totals		0.45	0.00	0.00	99.83	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

4 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	241.52	19.53	233.44	2,190.77	4,088,500.00 gal
Application event totals		241.52	19.53	233.44	2,190.77	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.35	0.00	0.00	77.80	6,441,000.00 gal
Application event totals		0.35	0.00	0.00	77.80	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.36	0.00	0.00	79.86	6,612,000.00 gal
Application event totals		0.36	0.00	0.00	79.86	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.50	0.00	0.00	110.15	9,120,000.00 gal
Application event totals		0.50	0.00	0.00	110.15	
09/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.63	0.00	0.00	138.55	11,471,250.00 gal
Application event totals		0.63	0.00	0.00	138.55	

5 - 11/18/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

5 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11	Ground water	1.88	0.00	0.00	148.27	6,180,000.00 gal
Application event totals		1.88	0.00	0.00	148.27	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	122.31	10,659,000.00 gal
Application event totals		0.56	0.00	0.00	122.31	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.58	0.00	0.00	127.54	11,115,000.00 gal
Application event totals		0.58	0.00	0.00	127.54	
03/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	315.76	36.55	294.36	2,186.01	5,544,000.00 gal
Application event totals		315.76	36.55	294.36	2,186.01	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.02	0.00	0.00	224.01	19,522,500.00 gal
Application event totals		1.02	0.00	0.00	224.01	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.68	0.00	0.00	149.61	13,038,750.00 gal
Application event totals		0.68	0.00	0.00	149.61	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

5 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	44.38	3,867,857.00 gal
Application event totals		0.20	0.00	0.00	44.38	

5 - 06/22/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	114.31	9,962,500.00 gal
Application event totals		0.52	0.00	0.00	114.31	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.57	0.00	0.00	125.58	10,944,000.00 gal
Application event totals		0.57	0.00	0.00	125.58	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	92.66	8,075,000.00 gal
Application event totals		0.42	0.00	0.00	92.66	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.42	0.00	0.00	91.54	7,977,500.00 gal
Application event totals		0.42	0.00	0.00	91.54	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

5 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.32	0.00	0.00	69.61	6,066,429.00 gal
Application event totals		0.32	0.00	0.00	69.61	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.44	0.00	0.00	95.79	8,348,000.00 gal
Application event totals		0.44	0.00	0.00	95.79	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.48	0.00	0.00	106.22	9,257,500.00 gal
Application event totals		0.48	0.00	0.00	106.22	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	300.42	40.98	204.63	1,765.40	4,808,000.00 gal
Application event totals		300.42	40.98	204.63	1,765.40	
09/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.46	0.00	0.00	100.69	8,775,000.00 gal
Application event totals		0.46	0.00	0.00	100.69	

6 - 11/14/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

6 - 11/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/14/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
13	Ground water	8.93	0.00	0.00	209.76	2,572,000.00 gal
Application event totals		8.93	0.00	0.00	209.76	
01/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	239.88	27.77	223.63	1,660.73	2,316,500.00 gal
Application event totals		239.88	27.77	223.63	1,660.73	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.07	0.00	0.00	235.45	11,286,000.00 gal
Application event totals		1.07	0.00	0.00	235.45	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.79	0.00	0.00	173.42	8,312,500.00 gal
Application event totals		0.79	0.00	0.00	173.42	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.75	0.00	0.00	165.00	7,908,750.00 gal
Application event totals		0.75	0.00	0.00	165.00	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.32	0.00	0.00	70.36	3,372,500.00 gal
Application event totals		0.32	0.00	0.00	70.36	

6 - 06/14/2023: Corn, silage

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

6 - 06/14/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	309.26	41.92	273.95	2,460.44	3,003,000.00 gal
Application event totals		309.26	41.92	273.95	2,460.44	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.55	0.00	0.00	122.05	5,850,000.00 gal
Application event totals		0.55	0.00	0.00	122.05	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.57	0.00	0.00	125.13	5,997,857.00 gal
Application event totals		0.57	0.00	0.00	125.13	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.51	0.00	0.00	111.57	5,348,000.00 gal
Application event totals		0.51	0.00	0.00	111.57	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.50	0.00	0.00	109.53	5,250,000.00 gal
Application event totals		0.50	0.00	0.00	109.53	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	115.20	5,522,000.00 gal
Application event totals		0.52	0.00	0.00	115.20	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

6 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	115.11	5,517,500.00 gal
Application event totals		0.52	0.00	0.00	115.11	

9/10 - 10/21/2022: Wheat, silage, soft dough

Field name: 9/10

Crop: Wheat, silage, soft dough Plant date: 10/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/28/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6	Ground water	0.39	0.00	0.00	84.94	7,125,000.00 gal
Application event totals		0.39	0.00	0.00	84.94	
01/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.63	0.00	0.00	137.60	11,542,500.00 gal
Application event totals		0.63	0.00	0.00	137.60	
02/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.47	0.00	0.00	103.29	8,664,000.00 gal
Application event totals		0.47	0.00	0.00	103.29	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.85	0.00	0.00	186.87	15,675,000.00 gal
Application event totals		0.85	0.00	0.00	186.87	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

9/10 - 10/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.25	0.00	0.00	56.06	4,702,500.00 gal
Application event totals		0.25	0.00	0.00	56.06	
04/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.77	0.00	0.00	169.88	14,250,000.00 gal
Application event totals		0.77	0.00	0.00	169.88	
05/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	314.78	29.08	304.51	2,760.01	5,261,750.00 gal
Application event totals		314.78	29.08	304.51	2,760.01	

9/10 - 05/29/2023: Corn, silage

Field name: 9/10

Crop: Corn, silage

Plant date: 05/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	122.67	14.20	114.35	849.23	2,073,000.00 gal
Application event totals		122.67	14.20	114.35	849.23	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.41	0.00	0.00	90.38	7,581,000.00 gal
Application event totals		0.41	0.00	0.00	90.38	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

9/10 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.36	0.00	0.00	78.14	6,555,000.00 gal
Application event totals		0.36	0.00	0.00	78.14	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.41	0.00	0.00	90.38	7,581,000.00 gal
Application event totals		0.41	0.00	0.00	90.38	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	112.55	15.26	99.70	895.41	1,912,500.00 gal
Application event totals		112.55	15.26	99.70	895.41	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.46	0.00	0.00	100.80	8,455,000.00 gal
Application event totals		0.46	0.00	0.00	100.80	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.44	0.00	0.00	96.24	8,073,000.00 gal
Application event totals		0.44	0.00	0.00	96.24	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.38	0.00	0.00	83.96	7,042,500.00 gal
Application event totals		0.38	0.00	0.00	83.96	

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

9/10 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.38	0.00	0.00	82.54	6,923,750.00 gal
Application event totals		0.38	0.00	0.00	82.54	
09/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.43	0.00	0.00	94.45	7,923,000.00 gal
Application event totals		0.43	0.00	0.00	94.45	

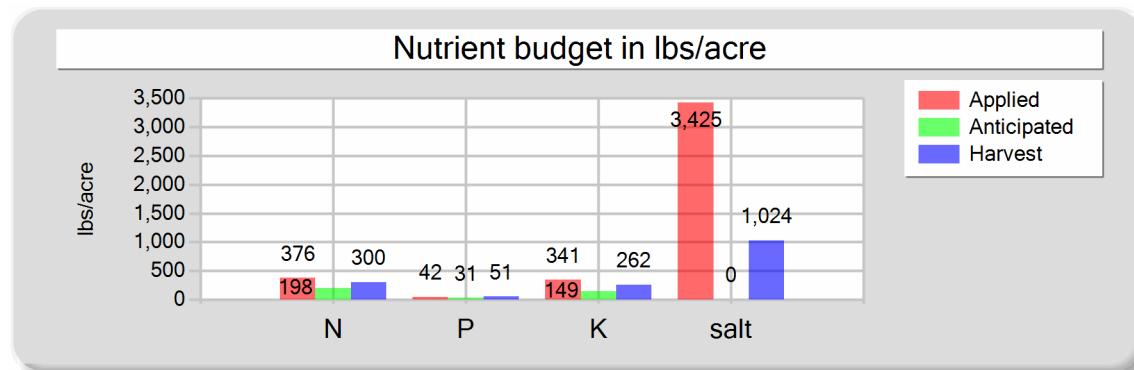
Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

1 - 10/28/2022: Wheat, silage, soft dough

Field name: 1	Crop: Wheat, silage, soft dough	Plant date: 10/28/2022
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	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	365.72	42.33	340.94	2,531.93
Fresh water	3.10	0.00	0.00	893.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	375.82	42.33	340.94	3,425.08
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	300.40	51.28	262.14	1,023.67
Nutrient balance	75.42	-8.95	78.80	2,401.41
Applied to removed ratio	1.25	0.83	1.30	3.35

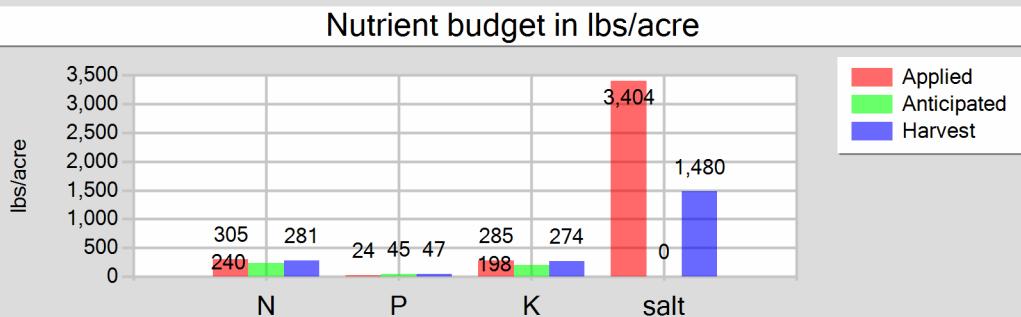
Fresh water applied
61,430,000.00 gallons
2,262.26 acre-inches
29.38 inches/acre
Process wastewater applied
6,180,500.00 gallons
227.61 acre-inches
2.96 inches/acre
Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

1 - 06/27/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/27/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	294.39	23.80	284.54	2,670.30
Fresh water	3.34	0.00	0.00	733.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.73	23.80	284.54	3,404.17
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	281.13	47.10	273.73	1,479.65
Nutrient balance	23.59	-23.30	10.81	1,924.52
Applied to removed ratio	1.08	0.51	1.04	2.30

Fresh water applied
61,558,643.00 gallons
2,267.00 acre-inches
29.44 inches/acre

Process wastewater applied
5,049,000.00 gallons
185.94 acre-inches
2.41 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

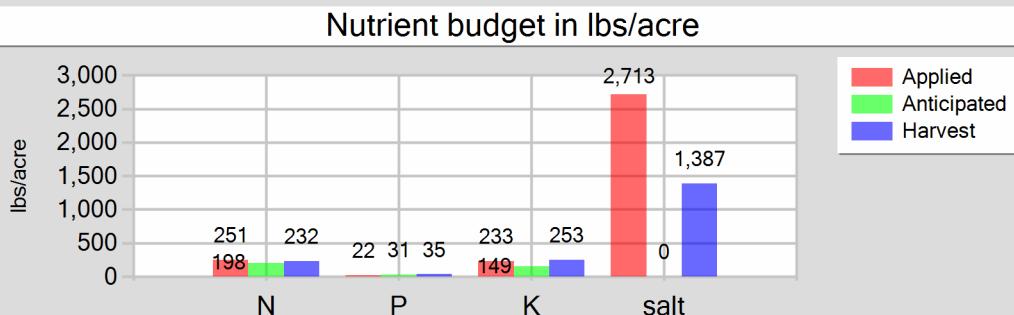
Reporting period 01/01/2023 to 12/31/2023.

11 - 11/04/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	240.86	22.25	233.01	2,111.93
Fresh water	2.73	0.00	0.00	601.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	250.60	22.25	233.01	2,713.16
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	232.40	34.79	253.12	1,386.97
Nutrient balance	18.20	-12.53	-20.11	1,326.19
Applied to removed ratio	1.08	0.64	0.92	1.96

Fresh water applied

46,502,750.00 gallons
1,712.54 acre-inches
24.12 inches/acre

Process wastewater applied

3,712,500.00 gallons
136.72 acre-inches
1.93 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

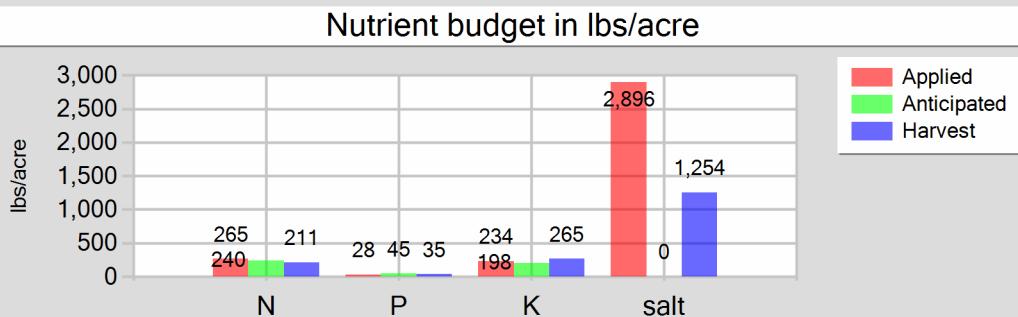
Reporting period 01/01/2023 to 12/31/2023.

11 - 06/07/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/07/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	254.30	28.50	234.08	2,144.97
Fresh water	3.41	0.00	0.00	750.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.72	28.50	234.08	2,895.61
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.20	35.26	265.45	1,253.63
Nutrient balance	53.52	-6.77	-31.37	1,641.98
Applied to removed ratio	1.25	0.81	0.88	2.31

Fresh water applied

58,059,500.00 gallons
2,138.13 acre-inches
30.11 inches/acre

Process wastewater applied

4,000,500.00 gallons
147.32 acre-inches
2.07 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

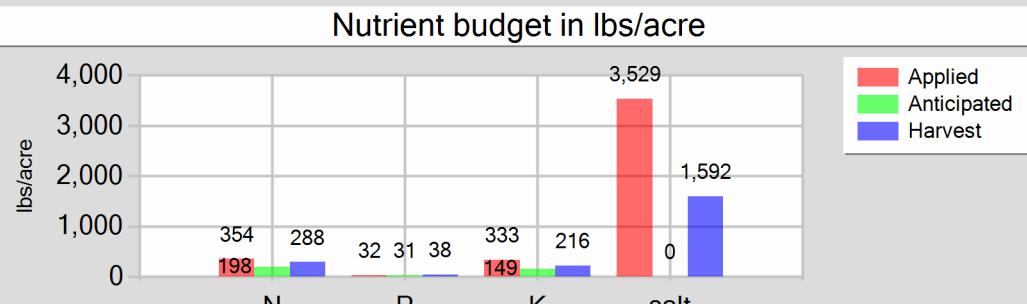
Reporting period 01/01/2023 to 12/31/2023.

12/13 - 11/12/2022: Wheat, silage, soft dough

Field name: 12/13

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	344.27	31.81	333.05	3,018.64
Fresh water	2.32	0.00	0.00	510.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	353.60	31.81	333.05	3,529.46
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	287.83	38.28	215.88	1,592.28
Nutrient balance	65.76	-6.47	117.17	1,937.19
Applied to removed ratio	1.23	0.83	1.54	2.22

Fresh water applied

45,075,250.00 gallons
1,659.97 acre-inches
20.49 inches/acre

Process wastewater applied

6,053,750.00 gallons
222.94 acre-inches
2.75 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

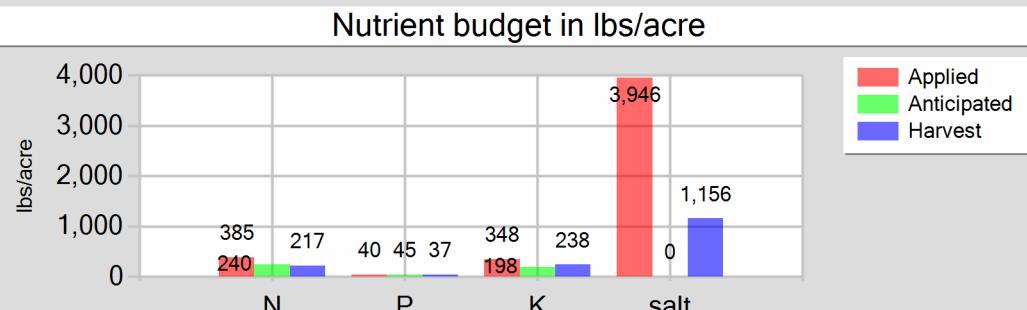
Reporting period 01/01/2023 to 12/31/2023.

12/13 - 06/03/2023: Corn, silage

Field name: 12/13

Crop: Corn, silage

Plant date: 06/03/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	374.77	39.99	347.92	3,201.81
Fresh water	3.38	0.00	0.00	744.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	385.15	39.99	347.92	3,946.47
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	216.92	36.61	238.23	1,156.26
Nutrient balance	168.23	3.39	109.70	2,790.20
Applied to removed ratio	1.78	1.09	1.46	3.41

Fresh water applied

65,708,786.00 gallons
2,419.83 acre-inches
29.87 inches/acre

Process wastewater applied

6,732,000.00 gallons
247.92 acre-inches
3.06 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

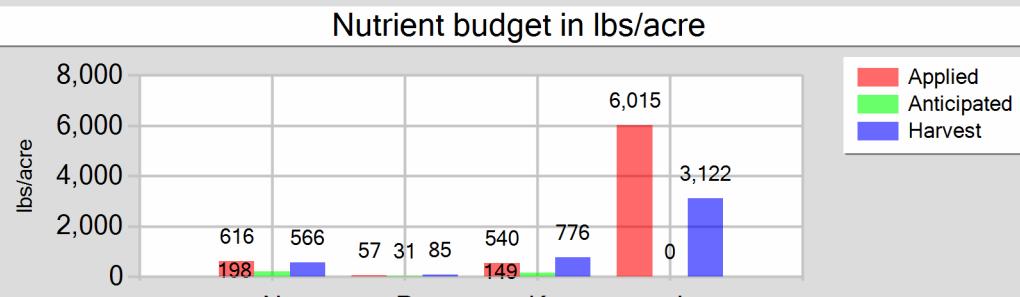
Reporting period 01/01/2023 to 12/31/2023.

14 - 11/22/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	564.63	56.53	539.64	4,605.82
Fresh water	44.80	0.00	0.00	1,409.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	616.43	56.53	539.64	6,015.44
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	565.83	84.63	775.58	3,121.83
Nutrient balance	50.60	-28.10	-235.94	2,893.61
Applied to removed ratio	1.09	0.67	0.70	1.93

Fresh water applied

61,654,750.00 gallons
2,270.53 acre-inches
29.11 inches/acre

Process wastewater applied

9,595,500.00 gallons
353.37 acre-inches
4.53 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

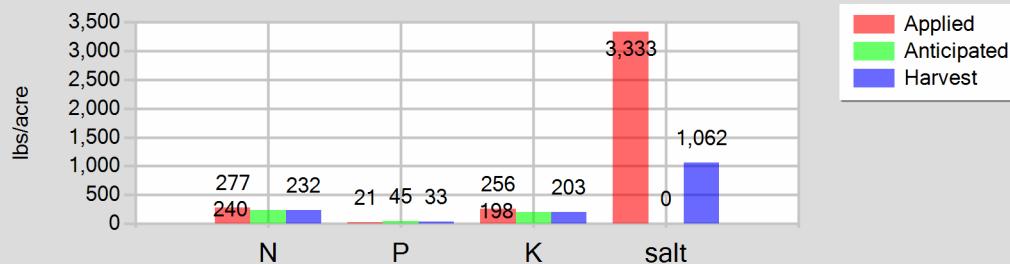
14 - 05/16/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 05/16/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	264.97	21.42	256.11	2,403.48
Fresh water	5.15	0.00	0.00	929.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	277.12	21.42	256.11	3,332.93
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	232.47	32.51	202.85	1,061.56
Nutrient balance	44.65	-11.08	53.26	2,271.37
Applied to removed ratio	1.19	0.66	1.26	3.14

Fresh water applied

70,434,000.00 gallons
2,593.84 acre-inches
33.25 inches/acre

Process wastewater applied

4,603,500.00 gallons
169.53 acre-inches
2.17 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

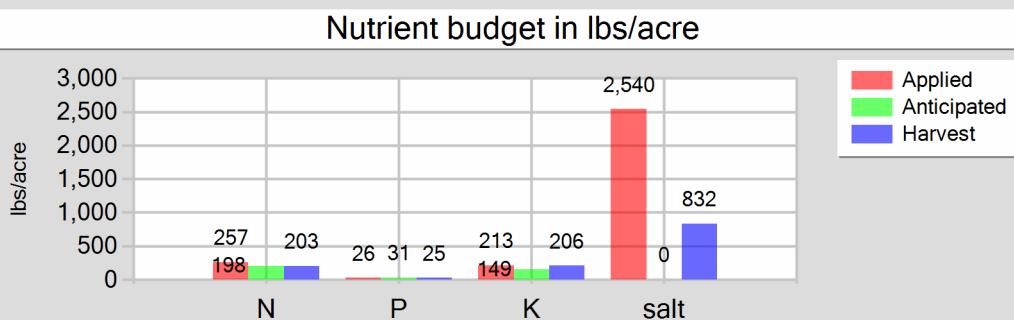
Reporting period 01/01/2023 to 12/31/2023.

15 - 11/19/2022: Wheat, silage, soft dough

Field name: 15

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	228.47	26.45	212.99	1,581.71
Fresh water	21.45	0.00	0.00	958.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.92	26.45	212.99	2,540.46
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	203.21	24.84	206.15	832.45
Nutrient balance	53.71	1.61	6.84	1,708.00
Applied to removed ratio	1.26	1.06	1.03	3.05

Fresh water applied

53,452,500.00 gallons
1,968.47 acre-inches
25.56 inches/acre

Process wastewater applied

3,861,000.00 gallons
142.19 acre-inches
1.85 inches/acre

Total harvests for the crop

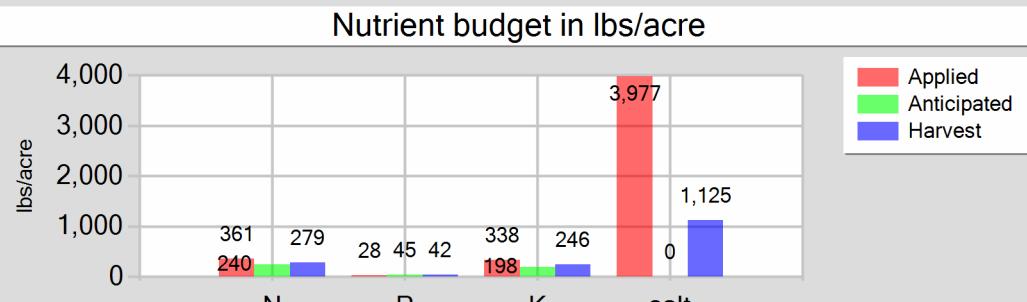
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

15 - 06/15/2023: Corn, silage

Field name: 15 Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	349.87	28.29	338.16	3,173.53
Fresh water	3.65	0.00	0.00	803.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	360.52	28.29	338.16	3,976.74
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	279.36	41.63	246.50	1,124.76
Nutrient balance	81.16	-13.34	91.67	2,851.98
Applied to removed ratio	1.29	0.68	1.37	3.54

Fresh water applied
67,374,750.00 gallons
2,481.18 acre-inches
32.22 inches/acre

Process wastewater applied
6,000,500.00 gallons
220.98 acre-inches
2.87 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

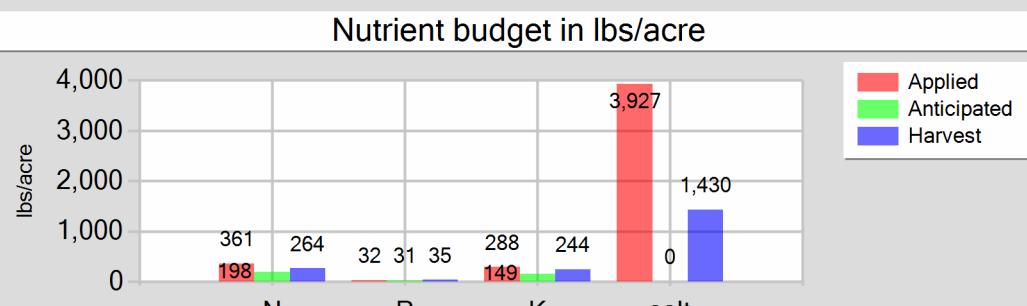
Reporting period 01/01/2023 to 12/31/2023.

16 - 11/30/2022: Wheat, silage, soft dough

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	304.08	31.93	288.40	2,363.59
Fresh water	50.18	0.00	0.00	1,563.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	361.26	31.93	288.40	3,926.71
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	264.14	35.16	244.10	1,429.97
Nutrient balance	97.12	-3.23	44.30	2,496.74
Applied to removed ratio	1.37	0.91	1.18	2.75

Fresh water applied

40,447,500.00 gallons
1,489.54 acre-inches
28.65 inches/acre

Process wastewater applied

3,453,000.00 gallons
127.16 acre-inches
2.45 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

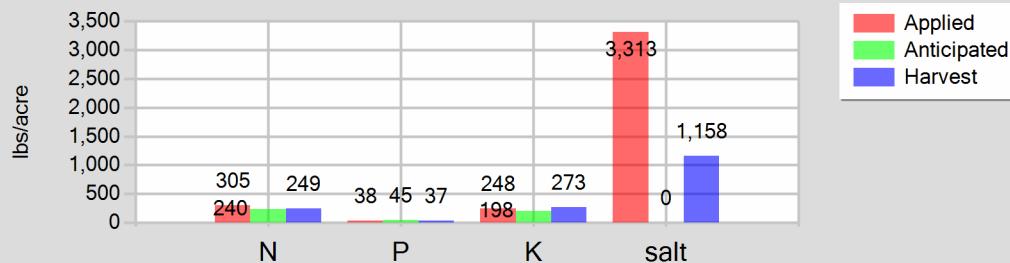
16 - 06/28/2023: Corn, silage

Field name: 16

Crop: Corn, silage

Plant date: 06/28/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	279.77	37.92	247.82	2,225.77
Fresh water	18.55	0.00	0.00	1,087.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.31	37.92	247.82	3,313.06
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	248.64	37.20	273.31	1,157.78
Nutrient balance	56.67	0.72	-25.49	2,155.28
Applied to removed ratio	1.23	1.02	0.91	2.86

Fresh water applied

44,734,393.00 gallons
1,647.42 acre-inches
31.68 inches/acre

Process wastewater applied

3,210,500.00 gallons
118.23 acre-inches
2.27 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

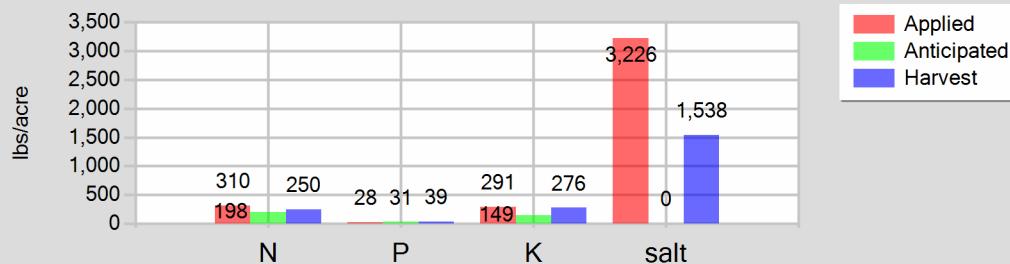
17 - 11/28/2022: Wheat, silage, soft dough

Field name: 17

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	300.57	27.77	290.77	2,635.43
Fresh water	2.68	0.00	0.00	590.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	310.26	27.77	290.77	3,226.10
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	249.92	38.62	275.89	1,538.48
Nutrient balance	60.33	-10.85	14.88	1,687.62
Applied to removed ratio	1.24	0.72	1.05	2.10

Fresh water applied

52,763,750.00 gallons
1,943.11 acre-inches
23.70 inches/acre

Process wastewater applied

5,350,500.00 gallons
197.04 acre-inches
2.40 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

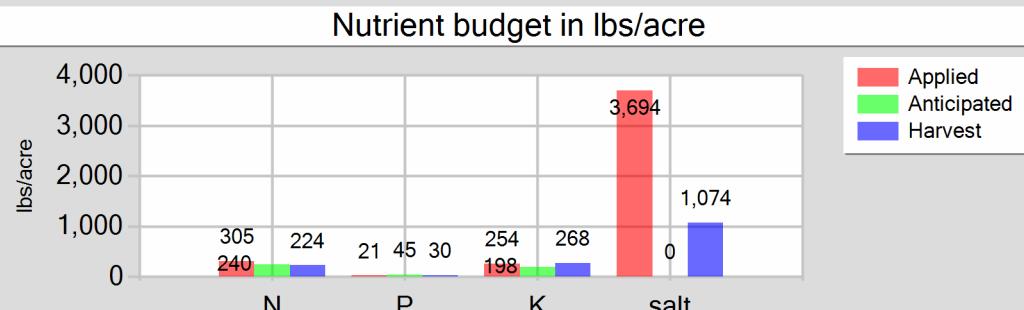
Reporting period 01/01/2023 to 12/31/2023.

17 - 06/22/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 06/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	262.83	21.25	254.04	2,384.07
Fresh water	34.91	0.00	0.00	1,310.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.75	21.25	254.04	3,694.46
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	224.19	29.77	267.52	1,073.85
Nutrient balance	80.56	-8.51	-13.48	2,620.62
Applied to removed ratio	1.36	0.71	0.95	3.44

Fresh water applied

70,975,000.00 gallons
2,613.77 acre-inches
31.88 inches/acre

Process wastewater applied

4,800,500.00 gallons
176.79 acre-inches
2.16 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

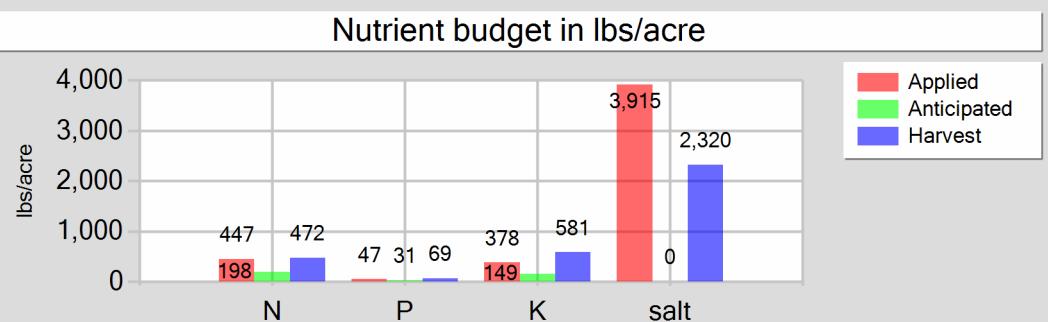
Reporting period 01/01/2023 to 12/31/2023.

18 - 12/12/2022: Wheat, silage, soft dough

Field name: 18

Crop: Wheat, silage, soft dough

Plant date: 12/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	405.57	46.94	378.09	2,807.78
Fresh water	34.14	0.00	0.00	1,107.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	446.71	46.94	378.09	3,915.04
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	471.90	69.20	580.95	2,319.83
Nutrient balance	-25.19	-22.25	-202.86	1,595.20
Applied to removed ratio	0.95	0.68	0.65	1.69

Fresh water applied

23,317,500.00 gallons
858.70 acre-inches
19.52 inches/acre

Process wastewater applied

3,916,500.00 gallons
144.23 acre-inches
3.28 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

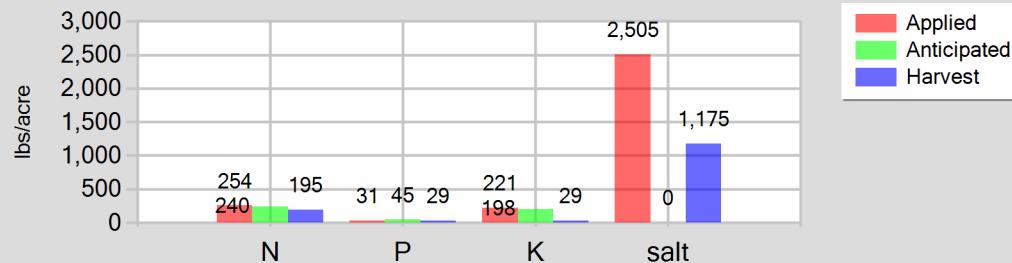
18 - 05/19/2023: Corn, silage

Field name: 18

Crop: Corn, silage

Plant date: 05/19/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	243.89	30.75	221.46	1,819.88
Fresh water	3.12	0.00	0.00	685.35
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	254.01	30.75	221.46	2,505.23
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	195.30	29.43	29.43	1,174.82
Nutrient balance	58.71	1.32	192.03	1,330.41
Applied to removed ratio	1.30	1.04	7.53	2.13

Fresh water applied

32,851,000.00 *gallons*
1,209.79 *acre-inches*
27.50 *inches/acre*

Process wastewater applied

2,362,000.00 *gallons*
86.98 *acre-inches*
1.98 *inches/acre*

Total harvests for the crop

1 *harvests*

Annual Report - General Order No. R5-2007-0035

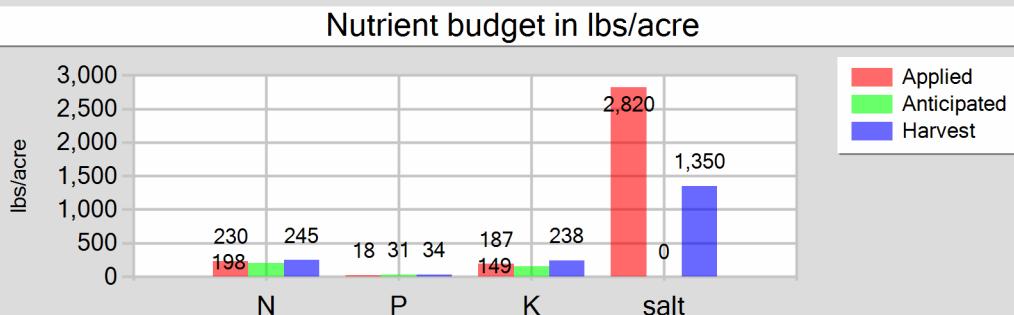
Reporting period 01/01/2023 to 12/31/2023.

19 - 10/29/2022: Wheat, silage, soft dough

Field name: 19

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	193.82	17.91	187.50	1,699.40
Fresh water	29.16	0.00	0.00	1,120.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	229.98	17.91	187.50	2,820.25
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	245.24	33.53	238.31	1,349.52
Nutrient balance	-15.26	-15.62	-50.82	1,470.73
Applied to removed ratio	0.94	0.53	0.79	2.09

Fresh water applied

26,470,500.00 gallons
974.82 acre-inches
24.37 inches/acre

Process wastewater applied

1,683,000.00 gallons
61.98 acre-inches
1.55 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

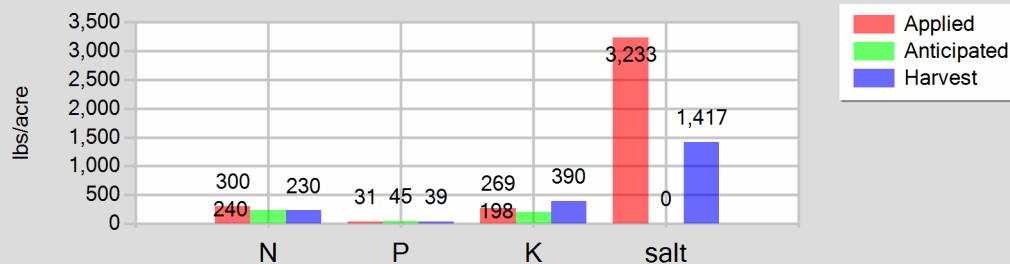
19 - 06/12/2023: Corn, silage

Field name: 19

Crop: Corn, silage

Plant date: 06/12/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	289.75	31.08	268.76	2,472.26
Fresh water	3.46	0.00	0.00	760.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.20	31.08	268.76	3,232.83
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	229.71	39.01	390.07	1,417.26
Nutrient balance	70.49	-7.93	-121.31	1,815.57
Applied to removed ratio	1.31	0.80	0.69	2.28

Fresh water applied

33,141,893.00 gallons
1,220.50 acre-inches
30.51 inches/acre

Process wastewater applied

2,570,000.00 gallons
94.64 acre-inches
2.37 inches/acre

Total harvests for the crop

1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

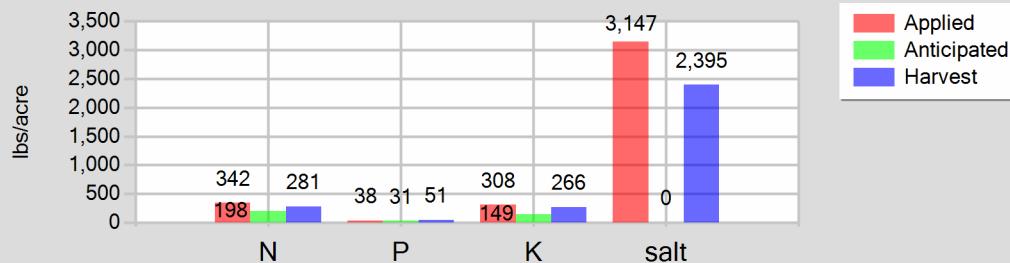
2 - 11/22/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	330.57	38.26	308.17	2,288.59
Fresh water	4.43	0.00	0.00	858.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	342.01	38.26	308.17	3,147.05
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	281.34	50.75	266.13	2,395.17
Nutrient balance	60.67	-12.49	42.04	751.88
Applied to removed ratio	1.22	0.75	1.16	1.31

Fresh water applied

55,391,250.00 gallons
2,039.87 acre-inches
26.49 inches/acre

Process wastewater applied

5,586,500.00 gallons
205.73 acre-inches
2.67 inches/acre

Total harvests for the crop

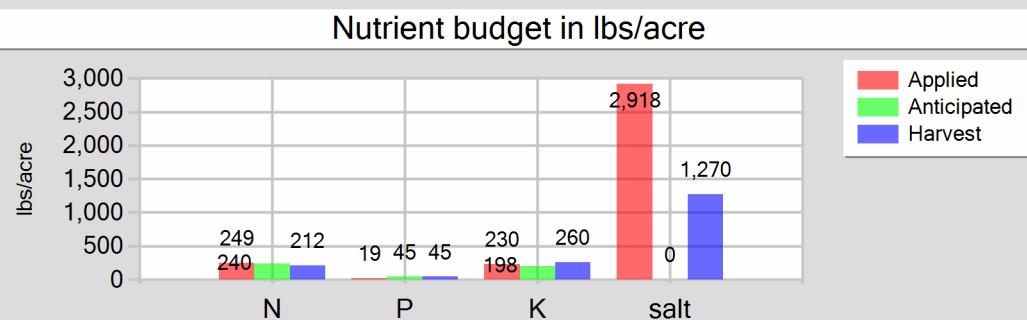
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

2 - 06/05/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	238.39	19.27	230.41	2,162.32
Fresh water	3.43	0.00	0.00	755.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	248.82	19.27	230.41	2,917.89
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.68	44.55	260.06	1,270.08
Nutrient balance	37.14	-25.28	-29.65	1,647.81
Applied to removed ratio	1.18	0.43	0.89	2.30

Fresh water applied
63,379,500.00 gallons
2,334.05 acre-inches
30.31 inches/acre

Process wastewater applied
4,088,500.00 gallons
150.57 acre-inches
1.96 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

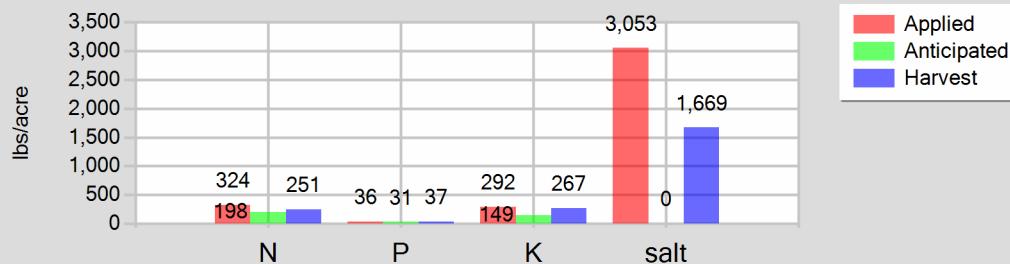
3 - 11/18/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	313.41	36.28	292.17	2,169.78
Fresh water	3.27	0.00	0.00	883.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	323.68	36.28	292.17	3,053.26
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	251.23	37.34	266.71	1,669.11
Nutrient balance	72.46	-1.06	25.46	1,384.15
Applied to removed ratio	1.29	0.97	1.10	1.83

Fresh water applied

59,086,250.00 gallons
2,175.95 acre-inches
28.26 inches/acre

Process wastewater applied

5,296,500.00 gallons
195.05 acre-inches
2.53 inches/acre

Total harvests for the crop

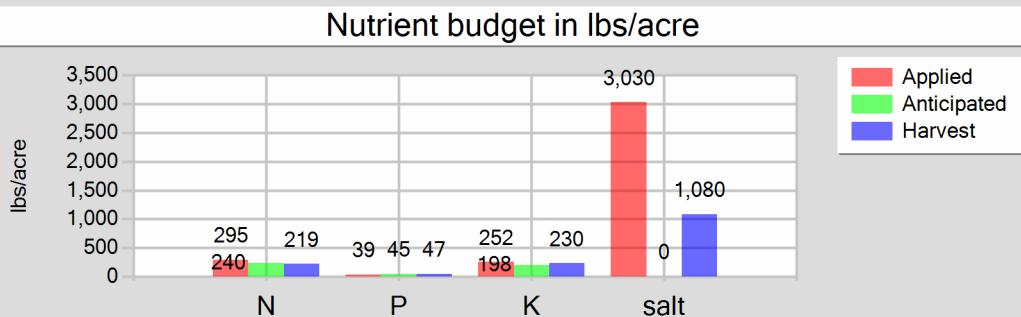
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

3 - 06/03/2023: Corn, silage

Field name: 3 Crop: Corn, silage Plant date: 06/03/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	284.83	38.61	252.31	2,266.03
Fresh water	3.47	0.00	0.00	763.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	295.30	38.61	252.31	3,029.71
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	219.40	47.22	229.84	1,080.26
Nutrient balance	75.90	-8.62	22.46	1,949.45
Applied to removed ratio	1.35	0.82	1.10	2.80

Fresh water applied
64,059,857.00 gallons
2,359.11 acre-inches
30.64 inches/acre

Process wastewater applied
4,840,000.00 gallons
178.24 acre-inches
2.31 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

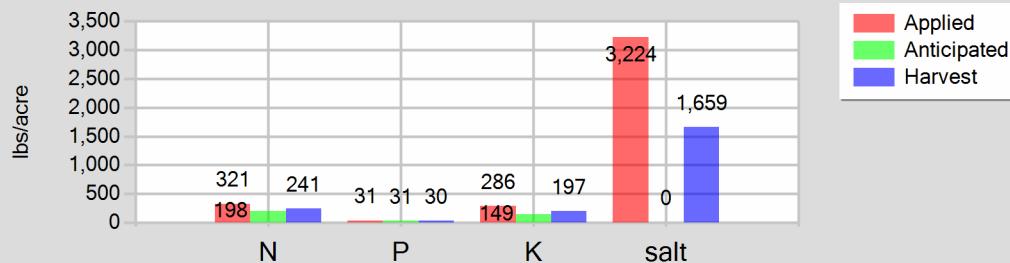
4 - 11/04/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	301.00	31.34	285.87	2,360.29
Fresh water	13.49	0.00	0.00	864.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	321.49	31.34	285.87	3,224.36
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	241.27	29.86	197.40	1,658.52
Nutrient balance	80.22	1.48	88.47	1,565.84
Applied to removed ratio	1.33	1.05	1.45	1.94

Fresh water applied

56,037,600.00 gallons
2,063.67 acre-inches
27.15 inches/acre

Process wastewater applied

4,993,500.00 gallons
183.89 acre-inches
2.42 inches/acre

Total harvests for the crop

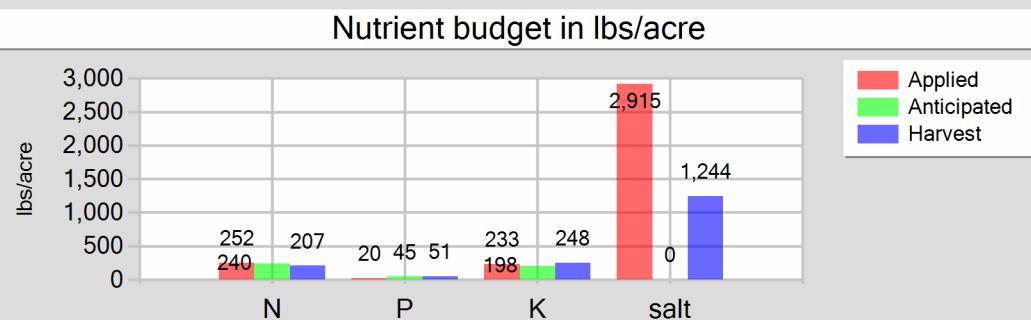
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

4 - 06/09/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	241.52	19.53	233.44	2,190.77
Fresh water	3.29	0.00	0.00	723.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	251.81	19.53	233.44	2,914.69
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	207.49	50.78	248.46	1,244.48
Nutrient balance	44.33	-31.25	-15.02	1,670.21
Applied to removed ratio	1.21	0.38	0.94	2.34

Fresh water applied
59,935,500.00 gallons
2,207.22 acre-inches
29.04 inches/acre

Process wastewater applied
4,088,500.00 gallons
150.57 acre-inches
1.98 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

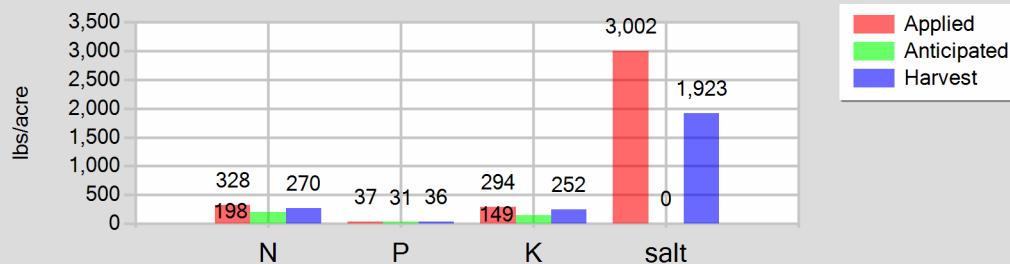
5 - 11/18/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	315.76	36.55	294.36	2,186.01
Fresh water	4.91	0.00	0.00	816.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.67	36.55	294.36	3,002.12
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	269.59	36.33	251.51	1,923.31
Nutrient balance	58.08	0.22	42.85	1,078.81
Applied to removed ratio	1.22	1.01	1.17	1.56

Fresh water applied

64,383,107.00 gallons
2,371.01 acre-inches
29.64 inches/acre

Process wastewater applied

5,544,000.00 gallons
204.17 acre-inches
2.55 inches/acre

Total harvests for the crop

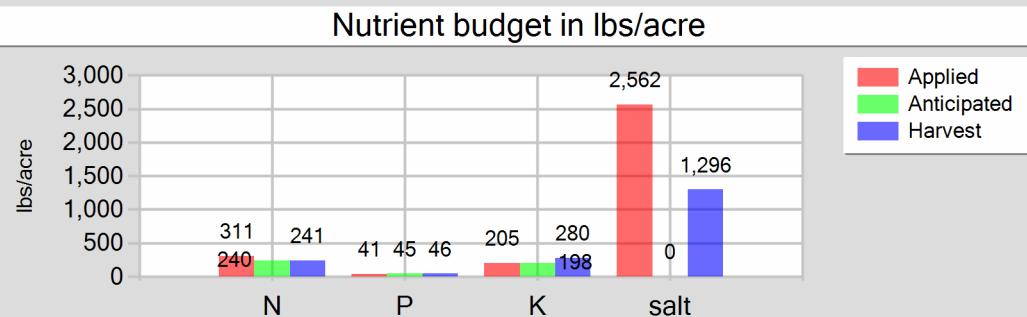
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

5 - 06/22/2023: Corn, silage

Field name: 5 Crop: Corn, silage Plant date: 06/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	300.42	40.98	204.63	1,765.40
Fresh water	3.62	0.00	0.00	796.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	311.04	40.98	204.63	2,561.79
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	240.65	45.53	279.68	1,296.49
Nutrient balance	70.39	-4.55	-75.05	1,265.30
Applied to removed ratio	1.29	0.90	0.73	1.98

Fresh water applied
69,405,929.00 gallons
2,555.98 acre-inches
31.95 inches/acre

Process wastewater applied
4,808,000.00 gallons
177.06 acre-inches
2.21 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

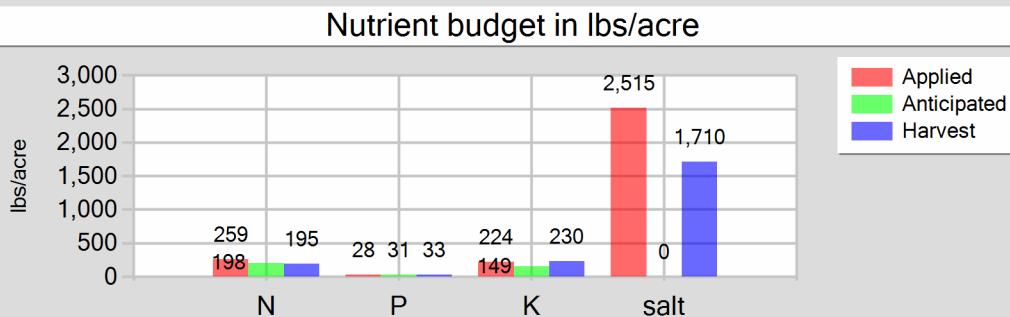
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/14/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	239.88	27.77	223.63	1,660.73
Fresh water	11.86	0.00	0.00	853.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	258.74	27.77	223.63	2,514.71
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	194.64	32.73	230.02	1,710.43
Nutrient balance	64.10	-4.97	-6.40	804.28
Applied to removed ratio	1.33	0.85	0.97	1.47

Fresh water applied

33,451,750.00 gallons
1,231.91 acre-inches
28.00 inches/acre

Process wastewater applied

2,316,500.00 gallons
85.31 acre-inches
1.94 inches/acre

Total harvests for the crop

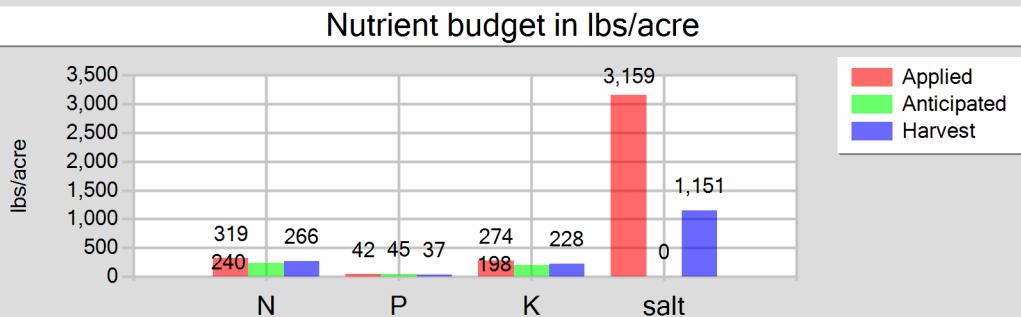
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

6 - 06/14/2023: Corn, silage

Field name: 6 Crop: Corn, silage Plant date: 06/14/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	309.26	41.92	273.95	2,460.44
Fresh water	3.18	0.00	0.00	698.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.44	41.92	273.95	3,159.03
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	266.12	36.62	228.10	1,150.52
Nutrient balance	53.32	5.30	45.85	2,008.51
Applied to removed ratio	1.20	1.14	1.20	2.75

Fresh water applied
33,485,357.00 gallons
1,233.15 acre-inches
28.03 inches/acre

Process wastewater applied
3,003,000.00 gallons
110.59 acre-inches
2.51 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

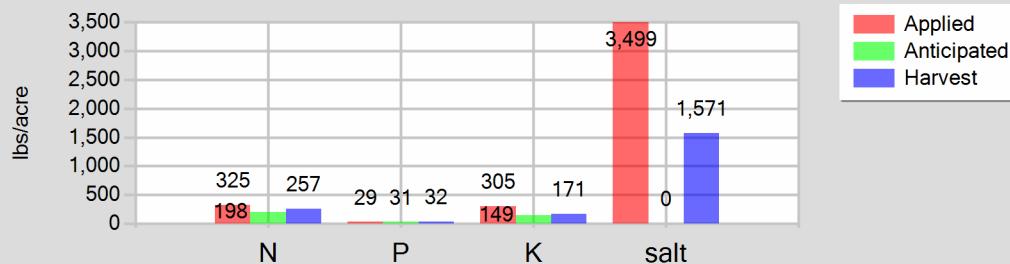
9/10 - 10/21/2022: Wheat, silage, soft dough

Field name: 9/10

Crop: Wheat, silage, soft dough

Plant date: 10/21/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	314.78	29.08	304.51	2,760.01
Fresh water	3.36	0.00	0.00	738.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	325.14	29.08	304.51	3,498.65
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	256.84	32.18	170.72	1,571.25
Nutrient balance	68.30	-3.10	133.79	1,927.40
Applied to removed ratio	1.27	0.90	1.78	2.23

Fresh water applied

61,959,000.00 gallons
2,281.74 acre-inches
29.63 inches/acre

Process wastewater applied

5,261,750.00 gallons
193.77 acre-inches
2.52 inches/acre

Total harvests for the crop

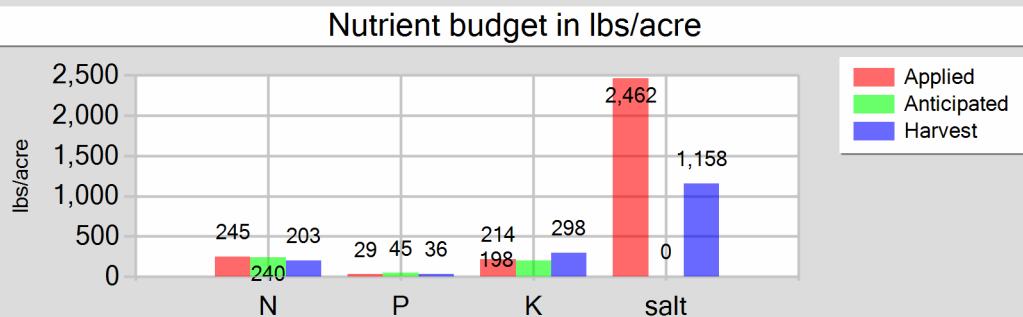
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

9/10 - 05/29/2023: Corn, silage

Field name: 9/10 Crop: Corn, silage Plant date: 05/29/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	235.21	29.45	214.05	1,744.64
Fresh water	3.26	0.00	0.00	716.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	245.47	29.45	214.05	2,461.53
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	203.11	35.95	298.37	1,157.54
Nutrient balance	42.36	-6.49	-84.32	1,303.98
Applied to removed ratio	1.21	0.82	0.72	2.13

Fresh water applied
60,134,250.00 gallons
2,214.54 acre-inches
28.76 inches/acre

Process wastewater applied
3,985,500.00 gallons
146.77 acre-inches
1.91 inches/acre

Total harvests for the crop
1 harvests

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT ANALYSES**A. MANURE ANALYSES****Solid Manure M7**

Sample and source description: Solid Manure M7

Sample date: 01/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 83.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,700.00	5,150.00	5,070.00	14,300.00	8,240.00	690.00	2,500.00	855.00		14.80
DL	1,000.00	200.00	500.00	500.00	500.00	500.00	100.00	100.00		0.10

B. PROCESS WASTEWATER ANALYSES**Aerated Lagoon H3**

Sample and source description: Aerated Lagoon H3

Sample date: 01/12/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	552.00	358.00			51.00	534.00								6,120.00	4,840
DL	0.50	0.50			0.20	0.50								100.00	10

Lagoon H4 + PH

Sample and source description: Lagoon H4 + PH

Sample date: 01/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.20

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	546.00	339.00			63.20	509.00								5,750.00	3,780
DL	0.50	0.50			0.20	0.50								100.00	10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

Aerated Laggon Capstone 2

Sample and source description: Aerated Laggon Capstone 2

Sample date: 06/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	543.00	409.00			73.60	481.00								6,610.00	4,320
DL	0.50	0.50			0.20	0.50								100.00	10

Aerated Lagoon Capstone 1

Sample and source description: Aerated Lagoon Capstone 1

Sample date: 06/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	538.00	414.00			43.50	520.00								6,500.00	4,880
DL	0.50	0.50			0.20	0.50								100.00	10

Lagoon Capstone 1

Sample and source description: Lagoon Capstone 1

Sample date: 10/19/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	599.00	300.00			81.70	408.00								5,460.00	3,520
DL	0.50	0.50			0.20	0.50								100.00	10

Lagoon Capstone 2

Sample and source description: Lagoon Capstone 2

Sample date: 10/19/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	546.00	412.00			43.90	440.00								6,600.00	3,800
DL	0.50	0.50			0.20	0.50								100.00	10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

C. FRESH WATER ANALYSES

11

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	2.91	200.70	9.41	37.90	104.00	0.00	12.60	28.40	424.00	230
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

13

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	18.30	77.50	24.00	46.50	276.00	0.00	40.50	48.20	839.00	430
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

15

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	7.29	57.00	17.40	41.40	246.00	0.00	33.10	33.10	650.00	340
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

15

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	7.29	57.00	17.40	41.40	246.00	0.00	33.10	33.10	650.00	340
DL		0.50	0.50	0.50	0.50	0.50	0.50	2.00	0.50	0.50	100.00	10

16

Well Water H14

Sample description: Well Water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.63	61.00	19.60	77.80	160.00	0.00	4.98	166.00	881.00	450
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	10.00	10

2

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	28.20	98.20	29.10	74.00	330.00	0.00	46.60	50.50	1,540.00	590
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

21

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

21

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	25.00	136.00	39.40	78.90	378.00	0.00	55.30	93.20	1,260.00	645
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

22

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00	61.20	19.50	77.60	158.00	0.00	5.60	168.00	890.00	465
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

23

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	3.82	37.50	9.72	31.50	144.00	0.00	14.50	34.40	436.00	210
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

3

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

3

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	41.40	166.00	47.00	80.40	358.00	0.00	86.50	133.00	1,520.00	850
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

35

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	1.90	35.60	9.28	37.80	128.00	0.00	7.69	52.90	455.00	210
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

6

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	45.40	156.00	48.40	102.00	458.00	0.00	60.50	95.30	973.00	850
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

61

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

61

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	1.94	34.40	9.11	37.60	128.00	0.00	10.40	52.20	457.00	215
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

66

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	25.70	114.00	32.70	75.00	324.00	0.00	45.40	84.10	1,115.00	600
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

9

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	20.10	90.30	26.50	65.20	286.00	0.00	37.10	72.30	1,250.00	500
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D-14

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

D-14**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	50.50	167.00	49.80	139.00	392.00	0.00	74.10	111.00	1,690.00	980
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D-19**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	26.20	134.00	40.50	74.50	420.00	0.00	55.20	85.00	1,300.00	695
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D-7/8**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	1.25	35.20	9.37	38.90	138.00	0.00	8.93	53.50	465.00	215
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

M.I.D Water

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

M.I.D Water

H14

Sample description: H14

Sample date: 06/02/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.50	0.00	6.21	1.57	4.45	26.00	0.00	3.17	3.45	100.00	110
DL		0.50	0.50	0.50	0.50	0.50	0.20	0.20	0.50	0.50	100.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 10/28/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	2,680.00	13,700.00		5.35
DL	1,000.00	200.00	500.00		0.10

1 - 06/27/2023: Corn, silage

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

1 - 06/27/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	1,910.00	11,100.00		6.00
DL	1,000.00	200.00	500.00		0.10

11 - 11/04/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	2,350.00	17,100.00		9.37
DL	1,000.00	200.00	500.00		0.10

11 - 06/07/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	1,820.00	13,700.00		6.47
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

12/13 - 11/12/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,800.00	2,500.00	14,100.00		10.40
DL	1,000.00	200.00	500.00		0.10

12/13 - 06/03/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,200.00	1,890.00	12,300.00		5.97
DL	1,000.00	200.00	500.00		0.10

14 - 11/22/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 46.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,200.00	3,470.00	31,800.00		12.80
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

14 - 05/16/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	1,580.00	9,860.00		5.16
DL	1,000.00	200.00	500.00		0.10

15 - 11/19/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,700.00	2,530.00	21,000.00		8.48
DL	1,000.00	200.00	500.00		0.10

15 - 06/15/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	2,280.00	13,500.00		6.16
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

16 - 11/30/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	1,930.00	13,400.00		7.85
DL	1,000.00	200.00	500.00		0.10

16 - 06/28/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	1,960.00	14,400.00		6.10
DL	1,000.00	200.00	500.00		0.10

17 - 11/28/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	2,380.00	17,000.00		9.48
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

17 - 06/22/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	1,580.00	14,200.00		5.70
DL	1,000.00	200.00	500.00		0.10

18 - 12/12/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,800.00	3,490.00	29,300.00		11.70
DL	1,000.00	200.00	500.00		0.10

18 - 05/19/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,960.00	1,350.00	13,500.00		5.39
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

19 - 10/29/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	2,420.00	17,200.00		9.74
DL	1,000.00	200.00	500.00		0.10

19 - 06/12/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	1,800.00	18,000.00		6.54
DL	1,000.00	200.00	500.00		0.10

2 - 11/22/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,800.00	2,670.00	14,000.00		12.60
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

2 - 06/05/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,500.00	2,210.00	12,900.00		6.30
DL	1,000.00	200.00	500.00		0.10

3 - 11/18/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,600.00	2,170.00	15,500.00		9.70
DL	1,000.00	200.00	500.00		0.10

3 - 06/03/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,500.00	2,260.00	11,000.00		5.17
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

4 - 11/04/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,300.00	1,770.00	11,700.00		9.83
DL	1,000.00	200.00	500.00		0.10

4 - 06/09/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,520.00	2,330.00	11,400.00		5.71
DL	1,000.00	200.00	500.00		0.10

5 - 11/18/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,400.00	2,210.00	15,300.00		11.70
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

5 - 06/22/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	2,100.00	12,900.00		5.98
DL	1,000.00	200.00	500.00		0.10

6 - 11/14/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	2,220.00	15,600.00		11.60
DL	1,000.00	200.00	500.00		0.10

6 - 06/14/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	1,830.00	11,400.00		5.75
DL	1,000.00	200.00	500.00		0.10

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

9/10 - 10/21/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,000.00	2,130.00	11,300.00		10.40
DL	1,000.00	200.00	500.00		0.10

9/10 - 05/29/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,000.00	16,600.00		6.44
DL	1,000.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

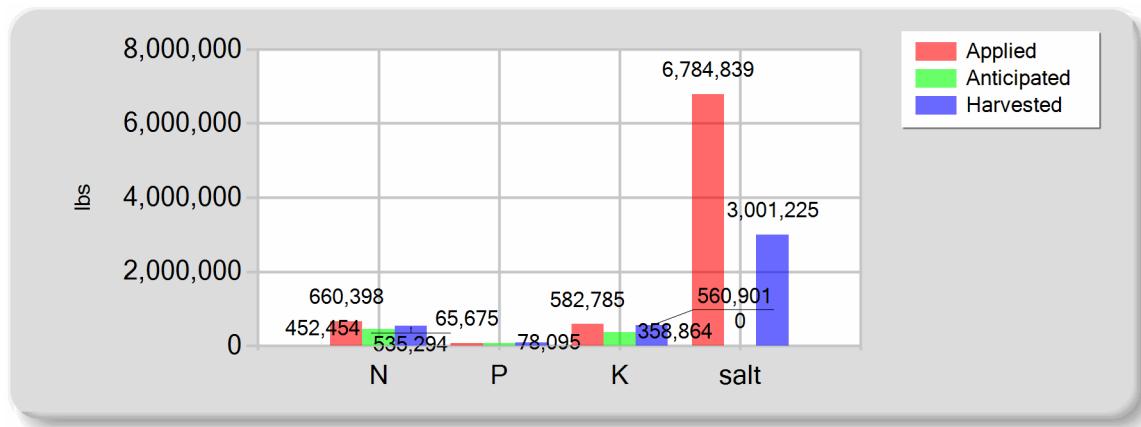
No subsurface (tile) drainage analyses entered.

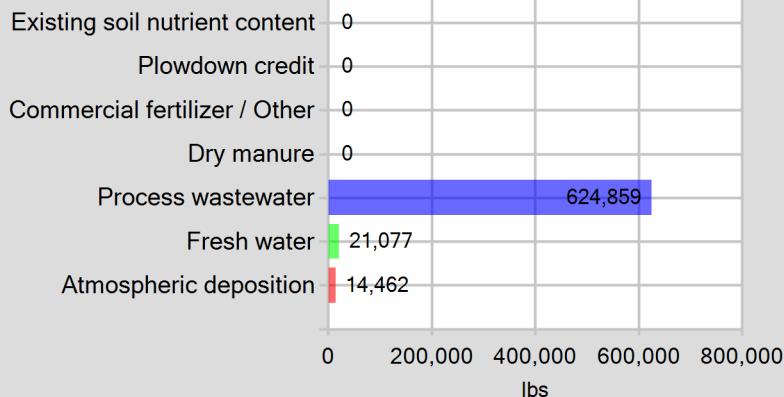
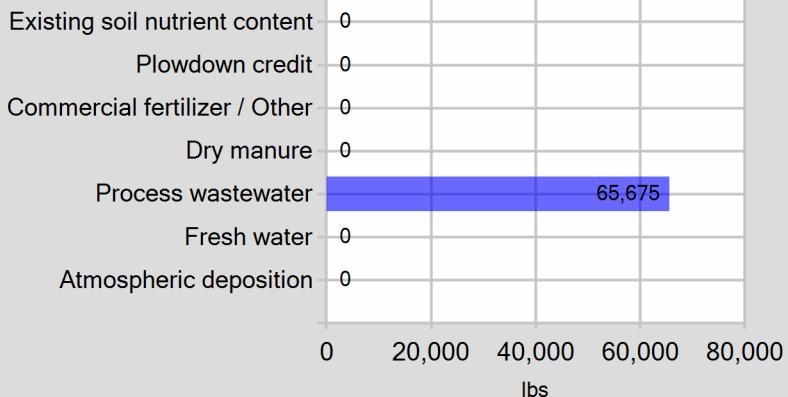
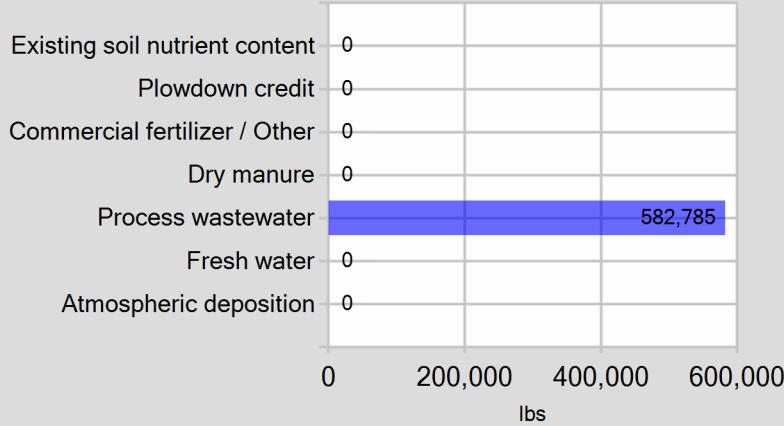
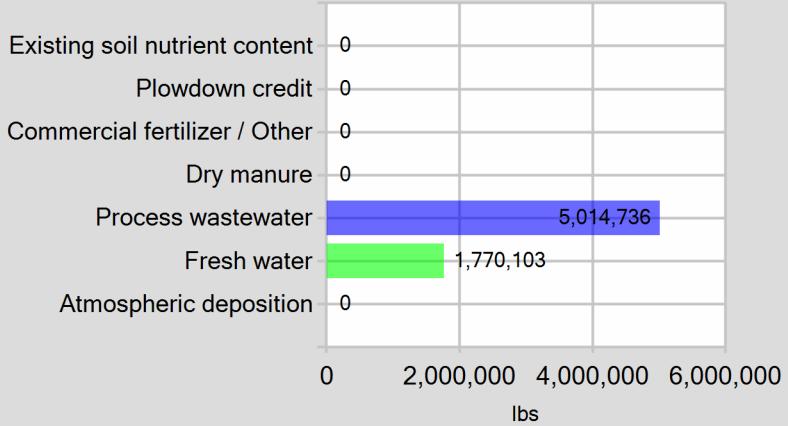
Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	624,859.04	65,674.52	582,785.10	5,014,735.90
Fresh water	21,077.10	0.00	0.00	1,770,102.90
Atmospheric deposition	14,462.00	0.00	0.00	0.00
Total nutrients applied	660,398.14	65,674.52	582,785.10	6,784,838.80
Anticipated crop nutrient removal	452,454.00	78,094.80	358,864.20	0.00
Actual crop nutrient removal	535,294.44	84,305.43	560,900.60	3,001,225.20
Nutrient balance	125,103.70	-18,630.91	21,884.50	3,783,613.60
Applied to removed ratio	1.23	0.78	1.04	2.26

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No land application area to surface water discharges occurred during the reporting period.

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period? No

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Rob Diepersloot

SIGNATURE OF OWNER OF FACILITY

Theo VanderMeulen

SIGNATURE OF OPERATOR OF FACILITY

Robert Diepersloot

PRINT OR TYPE NAME

Robert Diepersloot

Theo VanderMeulen

PRINT OR TYPE NAME

Theo VanderMeulen

DATE

6-21-24

DATE

6-21-24

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.