

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:** Felicita Dairy

Physical address of dairy:

22154 Road 20
Number and StreetTulare
CityKings
County93274
Zip Code

Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 10/29/1999Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X028-X280-X011-XXXX**B. OPERATORS**

DeJong, Gerrit

Operator name: DeJong, Gerrit

Telephone no.:

(559) 992-3272Landline Cellular22154 Road 20Tulare
CityCA
State93274
Zip Code

Mailing Address Number and Street

This operator is responsible for paying permit fees.**C. OWNERS**

DeJong, Gerrit

Legal owner name: DeJong, Gerrit

Telephone no.:

(559) 992-3272Landline Cellular22154 Road 20Tulare
CityCA
State93274
Zip Code

Mailing Address Number and Street

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	280	420	400	0	0
Number under roof	1,900	0	0	0	0	0
Maximum number	2,000	300	450	400	0	0
Average number	1,950	290	435	400	0	0
Avg live weight (lbs)	1,500	1,550	1,100	700		

Predominant milk cow breed: Holstein

Average milk production: 67 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 62,160.58 tons per reporting period

Total nitrogen from manure: 777,181.10 lbs per reporting period

After ammonia losses (30% loss applied): 544,026.77 lbs per reporting period

Total phosphorus from manure: 129,462.43 lbs per reporting period

Total potassium from manure: 369,599.54 lbs per reporting period

Total salt from manure: 984,843.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 12,325,500 gallons

Total nitrogen generated: 45,077.33 lbs

Total phosphorus generated: 6,992.25 lbs

Total potassium generated: 56,276.03 lbs

Total salt generated: 315,582.95 lbs

12,325,500 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 12,325,500 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Ditch	Surface water
F1	Ground water
F2	Ground water
F3	Ground water
F5	Ground water

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.*

Source Description	Type
F6	Ground water
F8	Ground water
F9	Ground water
H1	Ground water
H2	Ground water
H3	Ground water
H4	Ground water
R1	Ground water
R2	Ground 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
Field 1 North	39	39	1	process wastewater	0028-0280-0011-0000
Field 1 South	38	38	1	process wastewater	0028-0280-0011-0000
Field 11&12	89	89	2	manure	0225-0010-0039-0000
Field 13	38	38	1	none	0225-0010-0022-0000
Field 14	49	49	1	none	0225-0010-0039-0000
Field 15	39	39	1	manure	0225-0010-0029-0000
Field 16	19	19	0	none	0225-0010-0039-0000
Field 17	21	21	1	manure	0225-0090-0003-0000
Field 18	34	34	1	none	0225-0080-0001-0000
Field 19	30	30	2	manure	0225-0080-0001-0000
Field 2	69	69	2	process wastewater	0028-0280-0011-0000
Field 20	87	87	2	manure	0025-0080-0004-0000
Field 3	26	26	2	process wastewater	0028-0280-0011-0000
Field 4	5	5	1	none	0028-0280-0011-0000
Field 5	59	59	2	process wastewater	0028-0280-0011-0000
Field 6 & 7	21	21	1	process wastewater	0200-0070-0017-0000
Field 8	85	85	1	none	0200-0070-0012-0000
Field 9	57	57	2	process wastewater	0200-0050-0001-0000
Totals for areas that were used for application	575	575	19		
Totals for areas that were not used for application	230	230	5		
Land application area totals	805	805	24		

B. CROPS AND HARVESTS

Field 1 North
Field name: <u>Field 1 North</u>

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

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

Field 1 North

04/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 04/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/04/2023	1,025.50 ton	As-is		69.1	4,600.00	1,900.00	5,500.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	228.80	88.40	317.20	0.00
Total actual harvest content	26.29	241.91	99.92	289.24	1,023.76

Field 1 South

Field name: Field 1 South

04/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 04/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/04/2023	975.00 ton	As-is		64.6	5,400.00	2,200.00	6,000.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	228.80	88.40	317.20	0.00
Total actual harvest content	25.66	277.11	112.89	307.89	999.12

Field 11&12

Field name: Field 11&12

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

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

Field 11&12

11/10/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 89 Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	1,886.50 ton	As-is		57.2	5,000.00	700.00	5,900.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	127.60	435.60	0.00
Total actual harvest content	21.20	211.97	29.68	250.12	1,542.27

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 89 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	2,200.00 ton	As-is		62.9	4,600.00	1,500.00	4,000.00		4.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	220.00	85.00	305.00	0.00
Total actual harvest content	24.72	227.42	74.16	197.75	825.37

Field 13

Field name: Field 13

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 38 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	361.00 ton	As-is		11.7	33,100.00	2,800.00	17,800.00		7.89

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	812.00	130.00	410.00	0.00
Total actual harvest content	9.50	628.90	53.20	338.20	1,323.71

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

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

Field 14

Field name: Field 14

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 49 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	425.00 ton	As-is		10.9	31,700.00	2,400.00	17,400.00		8.28

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	812.00	130.00	410.00	0.00
Total actual harvest content	8.67	549.90	41.63	301.84	1,279.77

Field 15

Field name: Field 15

11/10/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 39 Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	742.50 ton	As-is		63.6	5,000.00	1,000.00	5,600.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	264.00	116.00	396.00	0.00
Total actual harvest content	19.04	190.38	38.08	213.23	1,136.52

Field 17

Field name: Field 17

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

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

Field 17

11/12/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 21 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 (%)
05/06/2023	402.50 ton	As-is		66.8	4,800.00	1,500.00	5,100.00		9.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	198.00	87.00	297.00	0.00
Total actual harvest content	19.17	184.00	57.50	195.50	1,221.76

Field 18

Field name: Field 18

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 34 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	315.00 ton	As-is		10.5	32,000.00	2,800.00	18,800.00		8.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	812.00	130.00	410.00	0.00
Total actual harvest content	9.26	592.94	51.88	348.35	1,446.11

Field 19

Field name: Field 19

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

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

Field 19

11/12/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 30 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 (%)
05/06/2023	585.00 ton	As-is		68.2	6,600.00	1,900.00	7,200.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	237.60	104.40	356.40	0.00
Total actual harvest content	19.50	257.40	74.10	280.80	1,463.44

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	650.00 ton	As-is		68.0	3,500.00	1,500.00	5,600.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	228.80	88.40	317.20	0.00
Total actual harvest content	21.67	151.67	65.00	242.67	804.27

Field 2

Field name: Field 2

11/09/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 69 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	1,255.00 ton	As-is		66.2	5,900.00	2,900.00	10,000.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	127.60	435.60	0.00
Total actual harvest content	18.19	214.62	105.49	363.77	1,389.38

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

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

Field 2

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 69 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 (%)
09/13/2023	1,700.00 ton	As-is		62.1	4,600.00	1,900.00	6,200.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	211.20	81.60	292.80	0.00
Total actual harvest content	24.64	226.67	93.62	305.51	971.12

Field 20

Field name: Field 20

11/13/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 87 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	1,891.00 ton	As-is		69.8	4,900.00	1,700.00	7,000.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	237.60	104.40	356.40	0.00
Total actual harvest content	21.74	213.01	73.90	304.30	1,417.86

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 87 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 (%)
09/13/2023	2,400.00 ton	As-is		66.7	4,000.00	1,500.00	6,000.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	228.80	88.40	317.20	0.00
Total actual harvest content	27.59	220.69	82.76	331.03	992.11

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

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

Field 3

Field name: Field 3

11/08/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 26 Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	460.50 ton	As-is		31.4	5,400.00	600.00	7,900.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	290.40	127.60	435.60	0.00
Total actual harvest content	17.71	191.28	21.25	279.84	2,697.33

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 26 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	650.00 ton	As-is		64.4	3,900.00	1,900.00	5,000.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	23.50	206.80	79.90	286.70	0.00
Total actual harvest content	25.00	195.00	95.00	250.00	996.80

Field 4

Field name: Field 4

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 5 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	32.00 ton	As-is		11.1	32,600.00	2,600.00	26,900.00		9.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.50	527.80	84.50	266.50	0.00
Total actual harvest content	6.40	417.28	33.28	344.32	1,109.47

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

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

Field 5

Field name: Field 5

11/09/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage

Acres planted: 59 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	1,150.00 <i>ton</i>	As-is		66.3	6,600.00	2,200.00	9,200.00		9.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	19.00	250.80	110.20	376.20	0.00
Total actual harvest content	19.49	257.29	85.76	358.64	1,208.63

06/03/2023: Corn, silage

Crop: Corn, silage

Acres planted: 59 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 (%)
09/13/2023	1,400.00 <i>ton</i>	As-is		62.5	4,700.00	1,600.00	7,400.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	211.20	81.60	292.80	0.00
Total actual harvest content	23.73	223.05	75.93	351.19	1,032.20

Field 6 & 7

Field name: Field 6 & 7

06/05/2023: Corn, silage

Crop: Corn, silage

Acres planted: 21 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 (%)
09/13/2023	500.00 <i>ton</i>	As-is		64.9	4,000.00	1,100.00	7,900.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	176.00	68.00	244.00	0.00
Total actual harvest content	23.81	190.48	52.38	376.19	902.57

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

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

Field 8

Field name: Field 8

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 85 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	755.00 ton	As-is		12.5	31,100.00	2,800.00	26,600.00		8.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	812.00	130.00	410.00	0.00
Total actual harvest content	8.88	552.48	49.74	472.54	1,352.34

Field 9

Field name: Field 9

11/08/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 57 Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	850.00 ton	As-is		63.6	6,100.00	800.00	7,700.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	237.60	104.40	356.40	0.00
Total actual harvest content	14.91	181.93	23.86	229.65	1,161.61

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 57 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	1,124.00 ton	As-is		65.2	4,000.00	1,600.00	4,900.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	193.60	74.80	268.40	0.00
Total actual harvest content	19.72	157.75	63.10	193.25	727.41

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

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 1 North - 04/25/2023: Corn, silage

Field name: Field 1 North

Crop: Corn, silage

Plant date: 04/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/01/2023	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
Lagoon	Process wastewater	43.25	7.47	55.37	297.65	432,000.00 gal
F1	Ground water	10.92	0.00	0.00	358.31	6,300,000.00 gal
Application event totals		54.17	7.47	55.37	655.96	
05/25/2023	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
F1	Ground water	7.80	0.00	0.00	255.93	4,500,000.00 gal
Application event totals		7.80	0.00	0.00	255.93	
05/22/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Sidedress	Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals		100.00	0.00	0.00	0.00	
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
Lagoon	Process wastewater	27.56	3.49	33.00	198.28	324,000.00 gal
F1	Ground water	7.28	0.00	0.00	238.87	4,200,000.00 gal
Application event totals		34.84	3.49	33.00	437.15	
06/22/2023	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
F1	Ground water	7.70	0.00	0.00	252.52	4,440,000.00 gal
Application event totals		7.70	0.00	0.00	252.52	

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

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

Field 1 North - 04/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/06/2023	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
Lagoon	Process wastewater	22.97	2.91	27.50	165.23	270,000.00 <i>gal</i>
F1	Ground water	7.70	0.00	0.00	252.52	4,440,000.00 <i>gal</i>
Application event totals		30.67	2.91	27.50	417.75	
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
F1	Ground water	8.01	0.00	0.00	262.76	4,620,000.00 <i>gal</i>
Application event totals		8.01	0.00	0.00	262.76	

Field 1 South - 04/26/2023: Corn, silage

Field name: Field 1 South

Crop: Corn, silage

Plant date: 04/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	33.29	5.75	42.62	229.11	324,000.00 <i>gal</i>
F1	Ground water	9.61	0.00	0.00	315.20	5,400,000.00 <i>gal</i>
Application event totals		42.90	5.75	42.62	544.31	
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
F1	Ground water	6.83	0.00	0.00	224.14	3,840,000.00 <i>gal</i>
Application event totals		6.83	0.00	0.00	224.14	

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

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

Field 1 South - 04/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/25/2023	Sidedress	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Sidedress		Solid commercial fertilizer	100.00	0.00	0.00	0.00		
Application event totals			100.00	0.00	0.00	0.00		
06/10/2023	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	
Lagoon		Process wastewater	23.58	2.99	28.22	169.58	270,000.00 <i>gal</i>	
F1		Ground water	7.58	0.00	0.00	248.66	4,260,000.00 <i>gal</i>	
Application event totals			31.15	2.99	28.22	418.24		
06/24/2023	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	
F1		Ground water	7.79	0.00	0.00	255.67	4,380,000.00 <i>gal</i>	
Application event totals			7.79	0.00	0.00	255.67		
07/08/2023	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	
Lagoon		Process wastewater	33.01	4.18	39.51	237.41	378,000.00 <i>gal</i>	
F1		Ground water	7.68	0.00	0.00	252.16	4,320,000.00 <i>gal</i>	
Application event totals			40.69	4.18	39.51	489.57		
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	
F1		Ground water	7.58	0.00	0.00	248.66	4,260,000.00 <i>gal</i>	
Application event totals			7.58	0.00	0.00	248.66		

Field 11&12 - 11/10/2022: Wheat, silage, boot stage

Field name: Field 11&12

Crop: Wheat, silage, boot stage

Plant date: 11/10/2022

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

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

Field 11&12 - 11/10/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/15/2022	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
H1	Ground water	14.89	0.00	0.00	296.34	5,670,000.00 <i>gal</i>
H2	Ground water	11.06	0.00	0.00	242.75	5,670,000.00 <i>gal</i>
Application event totals		25.94	0.00	0.00	539.09	
10/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	178.80	37.20	291.60	0.00	534.00 <i>ton</i>
Application event totals		178.80	37.20	291.60	0.00	
02/05/2023	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
H1	Ground water	13.29	0.00	0.00	264.59	5,062,500.00 <i>gal</i>
H2	Ground water	9.87	0.00	0.00	216.74	5,062,500.00 <i>gal</i>
Application event totals		23.16	0.00	0.00	481.33	
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
H1	Ground water	13.82	0.00	0.00	275.17	5,265,000.00 <i>gal</i>
H2	Ground water	10.27	0.00	0.00	225.41	5,265,000.00 <i>gal</i>
Application event totals		24.09	0.00	0.00	500.58	
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
H1	Ground water	13.50	0.00	0.00	268.82	5,143,500.00 <i>gal</i>
H2	Ground water	10.03	0.00	0.00	220.21	5,143,500.00 <i>gal</i>
Application event totals		23.54	0.00	0.00	489.03	

Field 11&12 - 06/10/2023: Corn, silage

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

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

Field 11&12 - 06/10/2023: Corn, silage

Field name: Field 11&12

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/06/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	147.20	40.00	172.00	0.00	356.00 <i>ton</i>
Application event totals		147.20	40.00	172.00	0.00	
05/08/2023	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
H1	Ground water	17.23	0.00	0.00	342.90	6,561,000.00 <i>gal</i>
H2	Ground water	12.80	0.00	0.00	280.89	6,561,000.00 <i>gal</i>
Application event totals		30.02	0.00	0.00	623.80	
07/06/2023	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
H1	Ground water	13.18	0.00	0.00	262.47	5,022,000.00 <i>gal</i>
H2	Ground water	9.79	0.00	0.00	215.01	5,022,000.00 <i>gal</i>
Application event totals		22.98	0.00	0.00	477.48	
07/18/2023	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
H1	Ground water	13.50	0.00	0.00	268.82	5,143,500.00 <i>gal</i>
H2	Ground water	10.03	0.00	0.00	220.21	5,143,500.00 <i>gal</i>
Application event totals		23.54	0.00	0.00	489.03	
07/30/2023	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
H1	Ground water	13.61	0.00	0.00	270.94	5,184,000.00 <i>gal</i>
H2	Ground water	10.11	0.00	0.00	221.94	5,184,000.00 <i>gal</i>
Application event totals		23.72	0.00	0.00	492.88	

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

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

Field 11&12 - 06/10/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
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
H1			Ground water		13.82	0.00	0.00	275.17	5,265,000.00 <i>gal</i>
H2			Ground water		10.27	0.00	0.00	225.41	5,265,000.00 <i>gal</i>
Application event totals					24.09	0.00	0.00	500.58	
08/24/2023	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
H1			Ground water		13.82	0.00	0.00	275.17	5,265,000.00 <i>gal</i>
H2			Ground water		10.27	0.00	0.00	225.41	5,265,000.00 <i>gal</i>
Application event totals					24.09	0.00	0.00	500.58	
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
H1			Ground water		7.44	0.00	0.00	148.17	2,835,000.00 <i>gal</i>
H2			Ground water		5.53	0.00	0.00	121.37	2,835,000.00 <i>gal</i>
Application event totals					12.97	0.00	0.00	269.54	

Field 13 - 01/01/2023: Alfalfa, hay

Field name: Field 13

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/08/2023	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
H1	Ground water	11.21	0.00	0.00	223.09	1,822,500.00 <i>gal</i>
H2	Ground water	8.32	0.00	0.00	182.75	1,822,500.00 <i>gal</i>
Application event totals		19.53	0.00	0.00	405.83	

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

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

Field 13 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
04/17/2023	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
H1		Ground water	11.21	0.00	0.00	223.09	1,822,500.00 <i>gal</i>
H2		Ground water	8.32	0.00	0.00	182.75	1,822,500.00 <i>gal</i>
Application event totals			19.53	0.00	0.00	405.83	
05/16/2023	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
H1		Ground water	11.46	0.00	0.00	228.05	1,863,000.00 <i>gal</i>
H2		Ground water	8.51	0.00	0.00	186.81	1,863,000.00 <i>gal</i>
Application event totals			19.97	0.00	0.00	414.85	
06/04/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
H1		Ground water	11.33	0.00	0.00	225.57	1,842,750.00 <i>gal</i>
H2		Ground water	8.42	0.00	0.00	184.78	1,842,750.00 <i>gal</i>
Application event totals			19.75	0.00	0.00	410.34	
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
H1		Ground water	11.08	0.00	0.00	220.61	1,802,250.00 <i>gal</i>
H2		Ground water	8.23	0.00	0.00	180.71	1,802,250.00 <i>gal</i>
Application event totals			19.31	0.00	0.00	401.32	
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
H1		Ground water	11.21	0.00	0.00	223.09	1,822,500.00 <i>gal</i>
H2		Ground water	8.32	0.00	0.00	182.75	1,822,500.00 <i>gal</i>
Application event totals			19.53	0.00	0.00	405.83	

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

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

Field 13 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/19/2023	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
H1	Ground water	10.96	0.00	0.00	218.13	1,782,000.00 <i>gal</i>
H2	Ground water	8.14	0.00	0.00	178.68	1,782,000.00 <i>gal</i>
Application event totals		19.10	0.00	0.00	396.82	

Field 14 - 01/01/2023: Alfalfa, hay

Field name: Field 14

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/10/2023	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
H1	Ground water	9.66	0.00	0.00	192.23	2,025,000.00 <i>gal</i>
H2	Ground water	7.17	0.00	0.00	157.47	2,025,000.00 <i>gal</i>
Application event totals		16.83	0.00	0.00	349.70	

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	
H1		Ground water	10.04	0.00	0.00	199.92	2,106,000.00 <i>gal</i>	
H2		Ground water	7.46	0.00	0.00	163.77	2,106,000.00 <i>gal</i>	
Application event totals			17.50	0.00	0.00	363.69		

05/18/2023	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	
H1		Ground water	9.95	0.00	0.00	198.00	2,085,750.00 <i>gal</i>	
H2		Ground water	7.39	0.00	0.00	162.19	2,085,750.00 <i>gal</i>	
Application event totals			17.33	0.00	0.00	360.19		

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

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

Field 14 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/06/2023	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
H1	Ground water	9.85	0.00	0.00	196.08	2,065,500.00 <i>gal</i>
H2	Ground water	7.32	0.00	0.00	160.62	2,065,500.00 <i>gal</i>
Application event totals		17.17	0.00	0.00	356.69	
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
H1	Ground water	9.85	0.00	0.00	196.08	2,065,500.00 <i>gal</i>
H2	Ground water	7.32	0.00	0.00	160.62	2,065,500.00 <i>gal</i>
Application event totals		17.17	0.00	0.00	356.69	
07/27/2023	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
H1	Ground water	9.95	0.00	0.00	198.00	2,085,750.00 <i>gal</i>
H2	Ground water	7.39	0.00	0.00	162.19	2,085,750.00 <i>gal</i>
Application event totals		17.33	0.00	0.00	360.19	
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
H1	Ground water	9.66	0.00	0.00	192.23	2,025,000.00 <i>gal</i>
H2	Ground water	7.17	0.00	0.00	157.47	2,025,000.00 <i>gal</i>
Application event totals		16.83	0.00	0.00	349.70	

Field 15 - 11/10/2022: Wheat, silage, boot stage

Field name: Field 15

Crop: Wheat, silage, boot stage

Plant date: 11/10/2022

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.

Field 15 - 11/10/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
10/10/2022	Plow/disc	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Manure		Corral solids	134.10	27.90	218.70	0.00	175.50 <i>ton</i>	
Application event totals			134.10	27.90	218.70	0.00		
10/18/2022	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	
H1		Ground water	16.99	0.00	0.00	338.13	2,835,000.00 <i>gal</i>	
H2		Ground water	12.62	0.00	0.00	276.98	2,835,000.00 <i>gal</i>	
Application event totals			29.60	0.00	0.00	615.11		
02/08/2023	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	
H1		Ground water	14.32	0.00	0.00	284.99	2,389,500.00 <i>gal</i>	
H2		Ground water	10.63	0.00	0.00	233.46	2,389,500.00 <i>gal</i>	
Application event totals			24.95	0.00	0.00	518.45		
03/04/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
H1		Ground water	15.04	0.00	0.00	299.49	2,511,000.00 <i>gal</i>	
H2		Ground water	11.18	0.00	0.00	245.33	2,511,000.00 <i>gal</i>	
Application event totals			26.22	0.00	0.00	544.81		
04/13/2023	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	
H1		Ground water	16.74	0.00	0.00	333.30	2,794,500.00 <i>gal</i>	
H2		Ground water	12.44	0.00	0.00	273.02	2,794,500.00 <i>gal</i>	
Application event totals			29.18	0.00	0.00	606.32		

Field 17 - 11/12/2022: Wheat, silage, boot stage

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

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

Field 17 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 17

Crop: Wheat, silage, boot stage

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
10/10/2022	Plow/disc	No precipitation	No precipitation		No precipitation		
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	134.10	27.90	218.70	0.00	94.50 <i>ton</i>
Application event totals			134.10	27.90	218.70	0.00	
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
H1		Ground water	18.03	0.00	0.00	358.83	1,620,000.00 <i>gal</i>
H2		Ground water	13.39	0.00	0.00	293.94	1,620,000.00 <i>gal</i>
Application event totals			31.42	0.00	0.00	652.77	
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
H1		Ground water	13.52	0.00	0.00	269.12	1,215,000.00 <i>gal</i>
H2		Ground water	10.04	0.00	0.00	220.45	1,215,000.00 <i>gal</i>
Application event totals			23.56	0.00	0.00	489.58	
03/06/2023	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
H1		Ground water	13.97	0.00	0.00	278.09	1,255,500.00 <i>gal</i>
H2		Ground water	10.38	0.00	0.00	227.80	1,255,500.00 <i>gal</i>
Application event totals			24.35	0.00	0.00	505.90	
04/15/2023	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
H1		Ground water	14.42	0.00	0.00	287.06	1,296,000.00 <i>gal</i>
H2		Ground water	10.71	0.00	0.00	235.15	1,296,000.00 <i>gal</i>
Application event totals			25.13	0.00	0.00	522.22	

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

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

Field 18 - 01/01/2023: Alfalfa, hay

Field name: Field 18

Crop: Alfalfa, hay

Plant date: 01/01/2023

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
R1		Ground water	15.35	0.00	0.00	334.95	3,240,000.00 <i>gal</i>
Application event totals			15.35	0.00	0.00	334.95	
03/06/2023	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
R1		Ground water	14.32	0.00	0.00	312.62	3,024,000.00 <i>gal</i>
Application event totals			14.32	0.00	0.00	312.62	
04/16/2023	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
R1		Ground water	14.58	0.00	0.00	318.20	3,078,000.00 <i>gal</i>
Application event totals			14.58	0.00	0.00	318.20	
05/17/2023	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
R1		Ground water	14.32	0.00	0.00	312.62	3,024,000.00 <i>gal</i>
Application event totals			14.32	0.00	0.00	312.62	
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
R1		Ground water	14.84	0.00	0.00	323.79	3,132,000.00 <i>gal</i>
Application event totals			14.84	0.00	0.00	323.79	
07/06/2023	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
R1		Ground water	14.84	0.00	0.00	323.79	3,132,000.00 <i>gal</i>
Application event totals			14.84	0.00	0.00	323.79	

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

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

Field 18 - 01/01/2023: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
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	
	R1	Ground water	14.32	0.00	0.00	312.62	3,024,000.00 <i>gal</i>	
	Application event totals		14.32	0.00	0.00	312.62		
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	
	R1	Ground water	15.35	0.00	0.00	334.95	3,240,000.00 <i>gal</i>	
	Application event totals		15.35	0.00	0.00	334.95		

Field 19 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 19

Crop: Wheat, silage, boot stage

Plant date: 11/12/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
10/15/2022	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
R1		Ground water	24.35	0.00	0.00	531.45	4,536,000.00 <i>gal</i>
Application event totals			24.35	0.00	0.00	531.45	
10/11/2022	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
Manure		Corral solids	208.60	43.40	340.20	0.00	210.00 <i>ton</i>
Application event totals			208.60	43.40	340.20	0.00	
12/06/2022	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
R1		Ground water	20.29	0.00	0.00	442.88	3,780,000.00 <i>gal</i>
Application event totals			20.29	0.00	0.00	442.88	

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

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

Field 19 - 11/12/2022: Wheat, silage, boot stage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
01/05/2023	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		
R1		Ground water	19.71	0.00	0.00	430.23	3,672,000.00 <i>gal</i>		
Application event totals			19.71	0.00	0.00	430.23			
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		
R1		Ground water	19.42	0.00	0.00	423.90	3,618,000.00 <i>gal</i>		
Application event totals			19.42	0.00	0.00	423.90			
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		
R1		Ground water	19.71	0.00	0.00	430.23	3,672,000.00 <i>gal</i>		
Application event totals			19.71	0.00	0.00	430.23			

Field 19 - 06/08/2023: Corn, silage

Field name: Field 19

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
05/06/2023	Plow/disc		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	55.20	15.00	64.50	0.00	45.00 <i>ton</i>
Application event totals			55.20	15.00	64.50	0.00	
05/10/2023	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
R1		Ground water	25.51	0.00	0.00	556.76	4,752,000.00 <i>gal</i>
Application event totals			25.51	0.00	0.00	556.76	

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

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

Field 19 - 06/08/2023: 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
R1	Ground water	17.68	0.00	0.00	385.94	3,294,000.00 <i>gal</i>
Application event totals		17.68	0.00	0.00	385.94	
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
R1	Ground water	19.13	0.00	0.00	417.57	3,564,000.00 <i>gal</i>
Application event totals		19.13	0.00	0.00	417.57	
07/26/2023	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
R1	Ground water	19.42	0.00	0.00	423.90	3,618,000.00 <i>gal</i>
Application event totals		19.42	0.00	0.00	423.90	
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
R1	Ground water	19.71	0.00	0.00	430.23	3,672,000.00 <i>gal</i>
Application event totals		19.71	0.00	0.00	430.23	
08/20/2023	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
R1	Ground water	19.13	0.00	0.00	417.57	3,564,000.00 <i>gal</i>
Application event totals		19.13	0.00	0.00	417.57	
09/02/2023	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
R1	Ground water	17.39	0.00	0.00	379.61	3,240,000.00 <i>gal</i>
Application event totals		17.39	0.00	0.00	379.61	

Field 2 - 11/09/2022: Wheat, silage, boot stage

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

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

Field 2 - 11/09/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/09/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/12/2022	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
F1	Ground water	8.23	0.00	0.00	270.03	8,400,000.00 <i>gal</i>
Application event totals		8.23	0.00	0.00	270.03	
12/04/2022	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
F1	Ground water	7.99	0.00	0.00	262.31	8,160,000.00 <i>gal</i>
Application event totals		7.99	0.00	0.00	262.31	
01/18/2023	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
Lagoon	Process wastewater	61.12	10.55	78.24	420.59	1,080,000.00 <i>gal</i>
F1	Ground water	8.11	0.00	0.00	266.17	8,280,000.00 <i>gal</i>
Application event totals		69.23	10.55	78.24	686.76	
03/02/2023	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
Lagoon	Process wastewater	53.48	9.23	68.46	368.01	945,000.00 <i>gal</i>
F1	Ground water	7.64	0.00	0.00	250.74	7,800,000.00 <i>gal</i>
Application event totals		61.12	9.23	68.46	618.76	
04/12/2023	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
F1	Ground water	7.88	0.00	0.00	258.46	8,040,000.00 <i>gal</i>
Application event totals		7.88	0.00	0.00	258.46	

Field 2 - 06/03/2023: Corn, silage

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

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

Field 2 - 06/03/2023: Corn, silage

Field name: Field 2

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	30.56	5.28	39.12	210.29	540,000.00 <i>gal</i>
F1	Ground water	8.82	0.00	0.00	289.32	9,000,000.00 <i>gal</i>
Application event totals		39.37	5.28	39.12	499.61	
05/31/2023	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
F1	Ground water	7.29	0.00	0.00	239.17	7,440,000.00 <i>gal</i>
Application event totals		7.29	0.00	0.00	239.17	
05/29/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Sidedress	Solid commercial fertilizer	50.00	0.00	0.00	0.00	
Application event totals		50.00	0.00	0.00	0.00	
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
Lagoon	Process wastewater	18.18	2.30	21.76	130.75	378,000.00 <i>gal</i>
F1	Ground water	7.64	0.00	0.00	250.74	7,800,000.00 <i>gal</i>
Application event totals		25.82	2.30	21.76	381.49	
06/28/2023	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
F1	Ground water	7.64	0.00	0.00	250.74	7,800,000.00 <i>gal</i>
Application event totals		7.64	0.00	0.00	250.74	

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

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

Field 2 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/12/2023	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
Lagoon	Process wastewater	15.58	1.97	18.65	112.07	324,000.00 <i>gal</i>
F2	Ground water	4.55	0.00	0.00	178.34	7,680,000.00 <i>gal</i>
Application event totals		20.13	1.97	18.65	290.41	
07/26/2023	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
F1	Ground water	7.64	0.00	0.00	250.74	7,800,000.00 <i>gal</i>
Application event totals		7.64	0.00	0.00	250.74	
08/10/2023	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
Lagoon	Process wastewater	15.58	1.97	18.65	112.07	324,000.00 <i>gal</i>
F1	Ground water	7.58	0.00	0.00	248.81	7,740,000.00 <i>gal</i>
Application event totals		23.16	1.97	18.65	360.88	
08/22/2023	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
F1	Ground water	7.64	0.00	0.00	250.74	7,800,000.00 <i>gal</i>
Application event totals		7.64	0.00	0.00	250.74	

Field 20 - 11/13/2022: Wheat, silage, boot stage

Field name: Field 20

Crop: Wheat, silage, boot stage

Plant date: 11/13/2022

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.

Field 20 - 11/13/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/11/2022	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	208.60	43.40	340.20	0.00	609.00 <i>ton</i>
Application event totals		208.60	43.40	340.20	0.00	
10/17/2022	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
R1	Ground water	8.40	0.00	0.00	183.26	4,536,000.00 <i>gal</i>
Application event totals		8.40	0.00	0.00	183.26	
12/07/2022	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
R1	Ground water	7.00	0.00	0.00	152.72	3,780,000.00 <i>gal</i>
Application event totals		7.00	0.00	0.00	152.72	
01/07/2023	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
R1	Ground water	6.80	0.00	0.00	148.35	3,672,000.00 <i>gal</i>
Application event totals		6.80	0.00	0.00	148.35	
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
R1	Ground water	6.70	0.00	0.00	146.17	3,618,000.00 <i>gal</i>
Application event totals		6.70	0.00	0.00	146.17	
04/12/2023	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
R1	Ground water	6.80	0.00	0.00	148.35	3,672,000.00 <i>gal</i>
Application event totals		6.80	0.00	0.00	148.35	

Field 20 - 06/09/2023: Corn, silage

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

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

Field 20 - 06/09/2023: Corn, silage

Field name: Field 20

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/06/2023	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	
Manure		Corral solids	165.60	45.00	193.50	0.00	391.50 <i>ton</i>	
Application event totals			165.60	45.00	193.50	0.00		
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	
R1		Ground water	21.79	0.00	0.00	475.60	11,772,000.00 <i>gal</i>	
Application event totals			21.79	0.00	0.00	475.60		
07/02/2023	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	
R1		Ground water	16.99	0.00	0.00	370.88	9,180,000.00 <i>gal</i>	
Application event totals			16.99	0.00	0.00	370.88		
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	
R1		Ground water	18.69	0.00	0.00	407.97	10,098,000.00 <i>gal</i>	
Application event totals			18.69	0.00	0.00	407.97		
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	
R1		Ground water	18.79	0.00	0.00	410.15	10,152,000.00 <i>gal</i>	
Application event totals			18.79	0.00	0.00	410.15		
08/10/2023	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	
R1		Ground water	18.79	0.00	0.00	410.15	10,152,000.00 <i>gal</i>	
Application event totals			18.79	0.00	0.00	410.15		

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

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

Field 20 - 06/09/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
08/22/2023	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
R1		Ground water	17.99	0.00	0.00	392.70	9,720,000.00 <i>gal</i>
Application event totals			17.99	0.00	0.00	392.70	
09/04/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
R1		Ground water	15.00	0.00	0.00	327.25	8,100,000.00 <i>gal</i>
Application event totals			15.00	0.00	0.00	327.25	

Field 3 - 11/08/2022: Wheat, silage, boot stage

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/10/2022	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
F1	Ground water	10.61	0.00	0.00	348.07	4,080,000.00 <i>gal</i>
Application event totals		10.61	0.00	0.00	348.07	
12/02/2022	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
F1	Ground water	8.74	0.00	0.00	286.65	3,360,000.00 <i>gal</i>
Application event totals		8.74	0.00	0.00	286.65	
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
Lagoon	Process wastewater	81.10	14.00	103.82	558.09	540,000.00 <i>gal</i>
F1	Ground water	7.49	0.00	0.00	245.70	2,880,000.00 <i>gal</i>
Application event totals		88.58	14.00	103.82	803.79	

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

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

Field 3 - 11/08/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	81.10	14.00	103.82	558.09	540,000.00 <i>gal</i>
F1	Ground water	7.33	0.00	0.00	240.58	2,820,000.00 <i>gal</i>
Application event totals		88.43	14.00	103.82	798.67	
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
F1	Ground water	7.96	0.00	0.00	261.05	3,060,000.00 <i>gal</i>
Application event totals		7.96	0.00	0.00	261.05	

Field 3 - 06/01/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/06/2023	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
Lagoon	Process wastewater	24.33	4.20	31.15	167.43	162,000.00 <i>gal</i>
F1	Ground water	9.98	0.00	0.00	327.60	3,840,000.00 <i>gal</i>
Application event totals		34.31	4.20	31.15	495.02	
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
F1	Ground water	7.18	0.00	0.00	235.46	2,760,000.00 <i>gal</i>
Application event totals		7.18	0.00	0.00	235.46	

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

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

Field 3 - 06/01/2023: 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
Lagoon		Process wastewater	27.56	3.49	33.00	198.28	216,000.00 <i>gal</i>
F1		Ground water	7.64	0.00	0.00	250.82	2,940,000.00 <i>gal</i>
Application event totals			35.21	3.49	33.00	449.09	
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
F1		Ground water	7.80	0.00	0.00	255.93	3,000,000.00 <i>gal</i>
Application event totals			7.80	0.00	0.00	255.93	
07/10/2023	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
Lagoon		Process wastewater	27.56	3.49	33.00	198.28	216,000.00 <i>gal</i>
F1		Ground water	7.49	0.00	0.00	245.70	2,880,000.00 <i>gal</i>
Application event totals			35.05	3.49	33.00	443.97	
07/24/2023	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
F1		Ground water	7.96	0.00	0.00	261.05	3,060,000.00 <i>gal</i>
Application event totals			7.96	0.00	0.00	261.05	
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
Lagoon		Process wastewater	20.67	2.62	24.75	148.71	162,000.00 <i>gal</i>
F1		Ground water	7.64	0.00	0.00	250.82	2,940,000.00 <i>gal</i>
Application event totals			28.32	2.62	24.75	399.52	

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

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

Field 3 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/20/2023	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
F1	Ground water	7.80	0.00	0.00	255.93	3,000,000.00 <i>gal</i>
Application event totals		7.80	0.00	0.00	255.93	

Field 4 - 01/01/2023: Alfalfa, hay

Field name: Field 4

Crop: Alfalfa, hay Plant date: 01/01/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
03/10/2023	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
F1			Ground water		5.68	0.00	0.00	186.32	420,000.00 <i>gal</i>
Application event totals					5.68	0.00	0.00	186.32	
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
F1			Ground water		6.49	0.00	0.00	212.94	480,000.00 <i>gal</i>
Application event totals					6.49	0.00	0.00	212.94	
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
F1			Ground water		5.68	0.00	0.00	186.32	420,000.00 <i>gal</i>
Application event totals					5.68	0.00	0.00	186.32	
05/26/2023	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
F1			Ground water		5.68	0.00	0.00	186.32	420,000.00 <i>gal</i>
Application event totals					5.68	0.00	0.00	186.32	

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

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

Field 4 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
F1	Ground water	6.49	0.00	0.00	212.94	480,000.00 <i>gal</i>
Application event totals		6.49	0.00	0.00	212.94	
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
F1	Ground water	5.68	0.00	0.00	186.32	420,000.00 <i>gal</i>
Application event totals		5.68	0.00	0.00	186.32	
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
F1	Ground water	6.49	0.00	0.00	212.94	480,000.00 <i>gal</i>
Application event totals		6.49	0.00	0.00	212.94	
08/01/2023	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
F1	Ground water	4.87	0.00	0.00	159.70	360,000.00 <i>gal</i>
Application event totals		4.87	0.00	0.00	159.70	

Field 5 - 11/09/2022: Wheat, silage, boot stage

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/09/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/15/2022	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
F1	Ground water	9.69	0.00	0.00	318.05	8,460,000.00 <i>gal</i>
Application event totals		9.69	0.00	0.00	318.05	

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

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

Field 5 - 11/09/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/07/2022	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
F1	Ground water	9.42	0.00	0.00	309.03	8,220,000.00 <i>gal</i>
Application event totals		9.42	0.00	0.00	309.03	
01/21/2023	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
Lagoon	Process wastewater	71.47	12.34	91.50	491.87	1,080,000.00 <i>gal</i>
F1	Ground water	9.49	0.00	0.00	311.29	8,280,000.00 <i>gal</i>
Application event totals		80.96	12.34	91.50	803.16	
03/05/2023	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
F1	Ground water	9.21	0.00	0.00	302.26	8,040,000.00 <i>gal</i>
Application event totals		9.21	0.00	0.00	302.26	
03/25/2023	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
Lagoon	Process wastewater	66.11	11.42	84.64	454.98	999,000.00 <i>gal</i>
Application event totals		66.11	11.42	84.64	454.98	
04/15/2023	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
F1	Ground water	9.35	0.00	0.00	306.77	8,160,000.00 <i>gal</i>
Application event totals		9.35	0.00	0.00	306.77	

Field 5 - 06/03/2023: Corn, silage

Field name: Field 5

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.

Field 5 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/12/2023	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
Lagoon	Process wastewater	32.16	5.55	41.18	221.34	486,000.00 <i>gal</i>
F1	Ground water	10.24	0.00	0.00	336.10	8,940,000.00 <i>gal</i>
Application event totals		42.41	5.55	41.18	557.44	
06/03/2023	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
F1	Ground water	7.42	0.00	0.00	243.62	6,480,000.00 <i>gal</i>
Application event totals		7.42	0.00	0.00	243.62	
06/01/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Sidedress	Solid commercial fertilizer	50.00	0.00	0.00	0.00	
Application event totals		50.00	0.00	0.00	0.00	
06/17/2023	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
Lagoon	Process wastewater	18.22	2.31	21.81	131.06	324,000.00 <i>gal</i>
F1	Ground water	7.84	0.00	0.00	257.15	6,840,000.00 <i>gal</i>
Application event totals		26.06	2.31	21.81	388.21	
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
F1	Ground water	7.77	0.00	0.00	254.89	6,780,000.00 <i>gal</i>
Application event totals		7.77	0.00	0.00	254.89	

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

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

Field 5 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	18.22	2.31	21.81	131.06	324,000.00 <i>gal</i>
F1	Ground water	7.42	0.00	0.00	243.62	6,480,000.00 <i>gal</i>
Application event totals		25.64	2.31	21.81	374.68	
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
F1	Ground water	7.84	0.00	0.00	257.15	6,840,000.00 <i>gal</i>
Application event totals		7.84	0.00	0.00	257.15	
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
Lagoon	Process wastewater	15.18	1.92	18.18	109.22	270,000.00 <i>gal</i>
F1	Ground water	7.42	0.00	0.00	243.62	6,480,000.00 <i>gal</i>
Application event totals		22.61	1.92	18.18	352.84	
08/27/2023	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
F1	Ground water	7.15	0.00	0.00	234.59	6,240,000.00 <i>gal</i>
Application event totals		7.15	0.00	0.00	234.59	

Field 6 & 7 - 06/05/2023: Corn, silage

Field name: Field 6 & 7

Crop: Corn, silage

Plant date: 06/05/2023

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.

Field 6 & 7 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/08/2023	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
Lagoon	Process wastewater	42.66	5.41	51.07	306.86	270,000.00 <i>gal</i>
F5	Ground water	15.37	0.00	0.00	287.52	1,638,420.00 <i>gal</i>
F6	Ground water	7.81	0.00	0.00	194.15	1,638,420.00 <i>gal</i>
Application event totals		65.84	5.41	51.07	788.52	
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
F5	Ground water	10.55	0.00	0.00	197.45	1,125,180.00 <i>gal</i>
F6	Ground water	5.37	0.00	0.00	133.33	1,125,180.00 <i>gal</i>
Application event totals		15.92	0.00	0.00	330.78	
07/19/2023	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
Lagoon	Process wastewater	34.13	4.33	40.86	245.49	216,000.00 <i>gal</i>
F5	Ground water	10.74	0.00	0.00	200.91	1,144,920.00 <i>gal</i>
F6	Ground water	5.46	0.00	0.00	135.67	1,144,920.00 <i>gal</i>
Application event totals		50.32	4.33	40.86	582.07	
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
Lagoon	Process wastewater	34.13	4.33	40.86	245.49	216,000.00 <i>gal</i>
F5	Ground water	11.48	0.00	0.00	214.77	1,223,880.00 <i>gal</i>
F6	Ground water	5.84	0.00	0.00	145.03	1,223,880.00 <i>gal</i>
Application event totals		51.44	4.33	40.86	605.29	
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
F6	Ground water	5.65	0.00	0.00	140.35	1,184,400.00 <i>gal</i>
F5	Ground water	11.11	0.00	0.00	207.84	1,184,400.00 <i>gal</i>
Application event totals		16.76	0.00	0.00	348.19	

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

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

Field 6 & 7 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
F5	Ground water	10.55	0.00	0.00	197.45	1,125,180.00 <i>gal</i>
F6	Ground water	5.37	0.00	0.00	133.33	1,125,180.00 <i>gal</i>
Application event totals		15.92	0.00	0.00	330.78	

Field 8 - 01/01/2023: Alfalfa, hay

Field name: Field 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
F5	Ground water	6.86	0.00	0.00	128.37	2,961,000.00 <i>gal</i>
F6	Ground water	3.49	0.00	0.00	86.69	2,961,000.00 <i>gal</i>
Application event totals		10.35	0.00	0.00	215.06	

04/15/2023	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	
F5		Ground water	7.13	0.00	0.00	133.51	3,079,440.00 <i>gal</i>	
F6		Ground water	3.63	0.00	0.00	90.15	3,079,440.00 <i>gal</i>	
Application event totals			10.76	0.00	0.00	223.66		

05/14/2023	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	
F5		Ground water	7.13	0.00	0.00	133.51	3,079,440.00 <i>gal</i>	
F6		Ground water	3.63	0.00	0.00	90.15	3,079,440.00 <i>gal</i>	
Application event totals			10.76	0.00	0.00	223.66		

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

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

Field 8 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
F5	Ground water	7.23	0.00	0.00	135.22	3,118,920.00 <i>gal</i>
F6	Ground water	3.67	0.00	0.00	91.31	3,118,920.00 <i>gal</i>
Application event totals		10.90	0.00	0.00	226.53	
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
F5	Ground water	7.23	0.00	0.00	135.22	3,118,920.00 <i>gal</i>
F6	Ground water	3.67	0.00	0.00	91.31	3,118,920.00 <i>gal</i>
Application event totals		10.90	0.00	0.00	226.53	
08/09/2023	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
F5	Ground water	7.18	0.00	0.00	134.36	3,099,180.00 <i>gal</i>
F6	Ground water	3.65	0.00	0.00	90.73	3,099,180.00 <i>gal</i>
Application event totals		10.83	0.00	0.00	225.10	

Field 9 - 11/08/2022: Wheat, silage, boot stage

Field name: Field 9

Crop: Wheat, silage, boot stage

Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/15/2022	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
F5	Ground water	14.32	0.00	0.00	268.01	4,145,400.00 <i>gal</i>
F6	Ground water	7.28	0.00	0.00	180.98	4,145,400.00 <i>gal</i>
Application event totals		21.61	0.00	0.00	448.99	

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

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

Field 9 - 11/08/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/01/2022	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
F5	Ground water	12.55	0.00	0.00	234.83	3,632,160.00 <i>gal</i>
F6	Ground water	6.38	0.00	0.00	158.57	3,632,160.00 <i>gal</i>
Application event totals		18.93	0.00	0.00	393.40	
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
F5	Ground water	11.59	0.00	0.00	216.96	3,355,800.00 <i>gal</i>
F6	Ground water	5.90	0.00	0.00	146.51	3,355,800.00 <i>gal</i>
Application event totals		17.49	0.00	0.00	363.46	
02/01/2023	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
F5	Ground water	12.41	0.00	0.00	232.27	3,592,680.00 <i>gal</i>
F6	Ground water	6.31	0.00	0.00	156.85	3,592,680.00 <i>gal</i>
Application event totals		18.72	0.00	0.00	389.12	
03/10/2023	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
F5	Ground water	12.34	0.00	0.00	231.00	3,572,940.00 <i>gal</i>
F6	Ground water	6.28	0.00	0.00	155.99	3,572,940.00 <i>gal</i>
Application event totals		18.62	0.00	0.00	386.98	
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
F5	Ground water	12.62	0.00	0.00	236.10	3,651,900.00 <i>gal</i>
F6	Ground water	6.42	0.00	0.00	159.43	3,651,900.00 <i>gal</i>
Application event totals		19.03	0.00	0.00	395.53	

Field 9 - 06/08/2023: Corn, silage

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

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

Field 9 - 06/08/2023: Corn, silage

Field name: Field 9

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/10/2023	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
Lagoon		Process wastewater	41.65	5.28	49.86	299.59	715,500.00 <i>gal</i>
F5		Ground water	11.59	0.00	0.00	216.96	3,355,800.00 <i>gal</i>
F6		Ground water	5.90	0.00	0.00	146.51	3,355,800.00 <i>gal</i>
Application event totals			59.14	5.28	49.86	663.05	
06/06/2023	Sidedress	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
PrePlant		Solid commercial fertilizer	50.00	0.00	0.00	0.00	
Application event totals			50.00	0.00	0.00	0.00	
07/07/2023	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
F5		Ground water	10.91	0.00	0.00	204.20	3,158,400.00 <i>gal</i>
F6		Ground water	5.55	0.00	0.00	137.89	3,158,400.00 <i>gal</i>
Application event totals			16.46	0.00	0.00	342.08	
07/21/2023	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
F5		Ground water	11.25	0.00	0.00	210.58	3,257,100.00 <i>gal</i>
F6		Ground water	5.72	0.00	0.00	142.20	3,257,100.00 <i>gal</i>
Application event totals			16.98	0.00	0.00	352.77	
08/05/2023	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
F5		Ground water	11.32	0.00	0.00	211.85	3,276,840.00 <i>gal</i>
F6		Ground water	5.76	0.00	0.00	143.06	3,276,840.00 <i>gal</i>
Application event totals			17.08	0.00	0.00	354.91	

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

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

Field 9 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
08/19/2023	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
F5		Ground water	10.98	0.00	0.00	205.47	3,178,140.00 <i>gal</i>
F6		Ground water	5.58	0.00	0.00	138.75	3,178,140.00 <i>gal</i>
Application event totals			16.56	0.00	0.00	344.22	
09/01/2023	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
F5		Ground water	10.23	0.00	0.00	191.43	2,961,000.00 <i>gal</i>
F6		Ground water	5.20	0.00	0.00	129.27	2,961,000.00 <i>gal</i>
Application event totals			15.43	0.00	0.00	320.70	

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

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

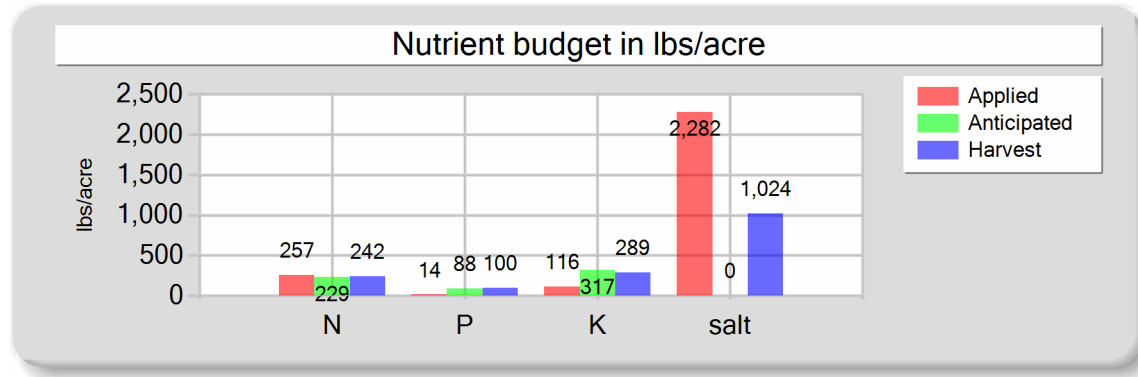
B. NUTRIENT BUDGET

Field 1 North - 04/25/2023: Corn, silage

Field name: Field 1 North

Crop: Corn, silage

Plant date: 04/25/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	28,500,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,049.56 acre-inches
Commercial fertilizer / Other	100.00	0.00	0.00	0.00	26.91 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	93.79	13.87	115.87	661.16	Process wastewater applied
Fresh water	49.40	0.00	0.00	1,620.92	1,026,000.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	37.78 acre-inches
Total nutrients applied	257.18	13.87	115.87	2,282.08	0.97 inches/acre
Anticipated crop nutrient removal	228.80	88.40	317.20	0.00	
Actual crop nutrient removal	241.91	99.92	289.24	1,023.76	Total harvests for the crop
Nutrient balance	15.27	-86.05	-173.37	1,258.31	1 harvests
Applied to removed ratio	1.06	0.14	0.40	2.23	

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

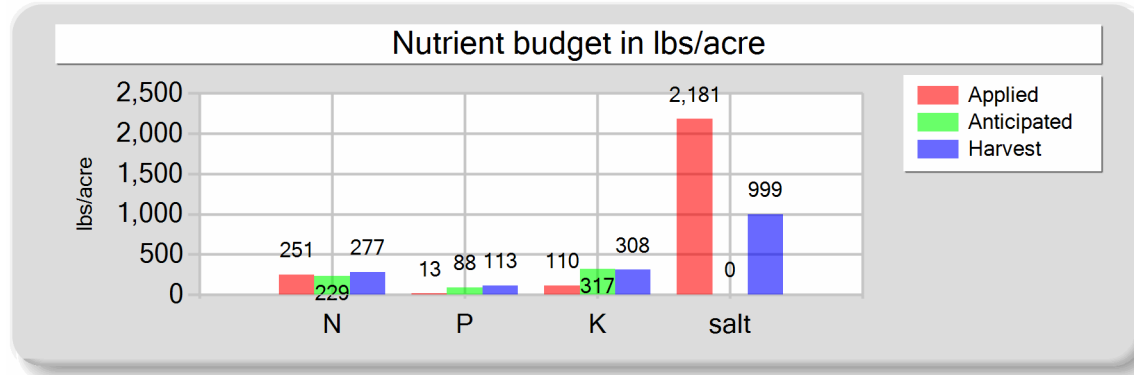
Reporting period 01/01/2023 to 12/31/2023.

Field 1 South - 04/26/2023: Corn, silage

Field name: Field 1 South

Crop: Corn, silage

Plant date: 04/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	26,460,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	974.43 <i>acre-inches</i>
Commercial fertilizer / Other	100.00	0.00	0.00	0.00	25.64 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	89.87	12.92	110.36	636.10	
Fresh water	47.07	0.00	0.00	1,544.50	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	250.94	12.92	110.36	2,180.60	
Anticipated crop nutrient removal	228.80	88.40	317.20	0.00	
Actual crop nutrient removal	277.11	112.89	307.89	999.12	
Nutrient balance	-26.17	-99.97	-197.54	1,181.48	
Applied to removed ratio	0.91	0.11	0.36	2.18	
					Process wastewater applied
					972,000.00 <i>gallons</i>
					35.80 <i>acre-inches</i>
					0.94 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

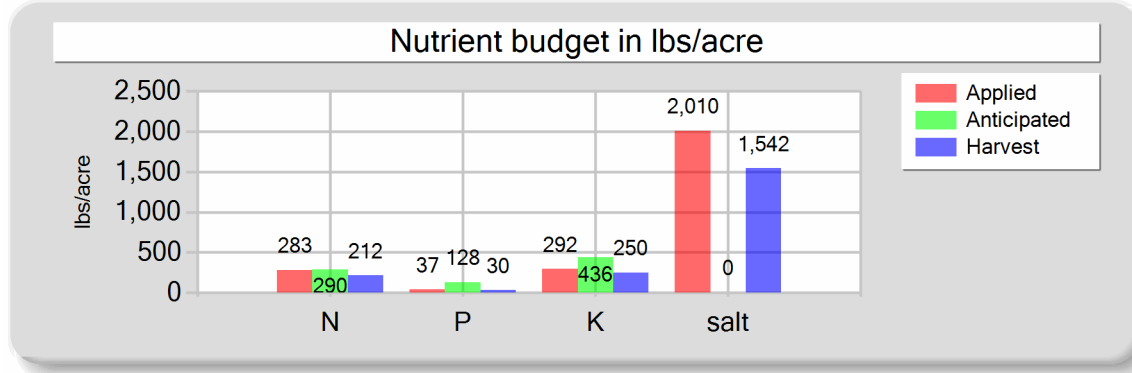
Reporting period 01/01/2023 to 12/31/2023.

Field 11&12 - 11/10/2022: Wheat, silage, boot stage

Field name: Field 11&12

Crop: Wheat, silage, boot stage

Plant date: 11/10/2022



	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	178.80	37.20	291.60	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	96.73	0.00	0.00	2,010.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.53	37.20	291.60	2,010.02
Anticipated crop nutrient removal	290.40	127.60	435.60	0.00
Actual crop nutrient removal	211.97	29.68	250.12	1,542.27
Nutrient balance	70.57	7.52	41.48	467.75
Applied to removed ratio	1.33	1.25	1.17	1.30

Fresh water applied
42,282,000.00 <i>gallons</i>
1,557.10 <i>acre-inches</i>
17.50 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

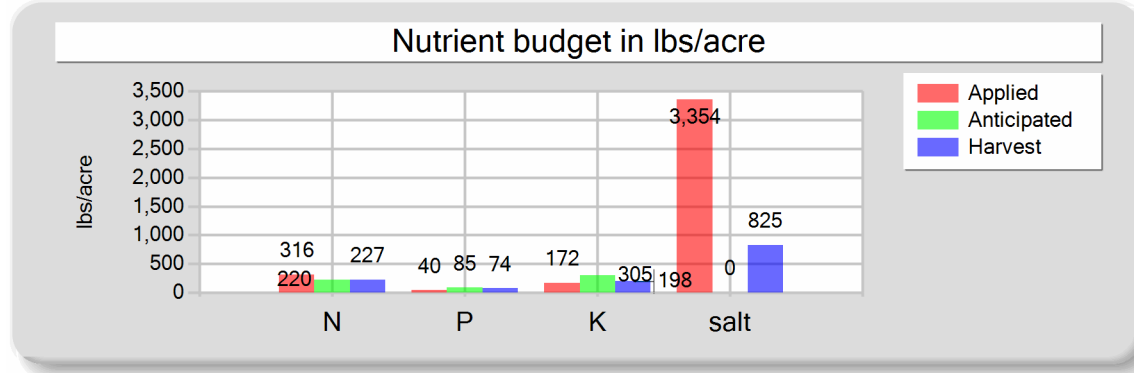
Reporting period 01/01/2023 to 12/31/2023.

Field 11&12 - 06/10/2023: Corn, silage

Field name: Field 11&12

Crop: Corn, silage

Plant date: 06/10/2023



	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	147.20	40.00	172.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	161.41	0.00	0.00	3,353.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.61	40.00	172.00	3,353.88
Anticipated crop nutrient removal	220.00	85.00	305.00	0.00
Actual crop nutrient removal	227.42	74.16	197.75	825.37
Nutrient balance	88.19	-34.16	-25.75	2,528.51
Applied to removed ratio	1.39	0.54	0.87	4.06

Fresh water applied
70,551,000.00 <i>gallons</i>
2,598.15 <i>acre-inches</i>
29.19 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

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

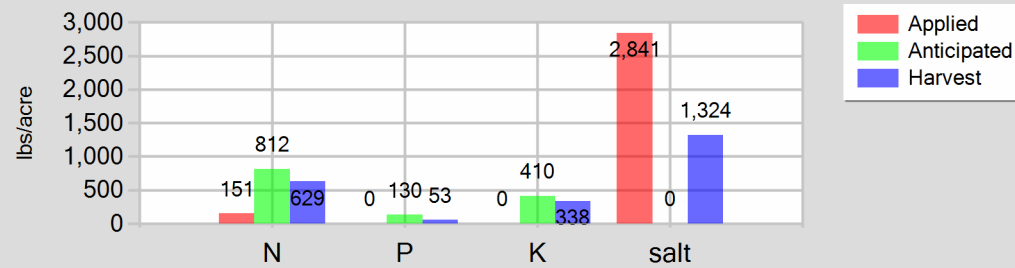
Field 13 - 01/01/2023: Alfalfa, hay

Field name: Field 13

Crop: Alfalfa, hay

Plant date: 01/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	25,515,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	939.63 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	24.73 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	136.72	0.00	0.00	2,840.84	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	150.72	0.00	0.00	2,840.84	
Anticipated crop nutrient removal	812.00	130.00	410.00	0.00	
Actual crop nutrient removal	628.90	53.20	338.20	1,323.71	
Nutrient balance	-478.18	-53.20	-338.20	1,517.13	
Applied to removed ratio	0.24	0.00	0.00	2.15	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

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

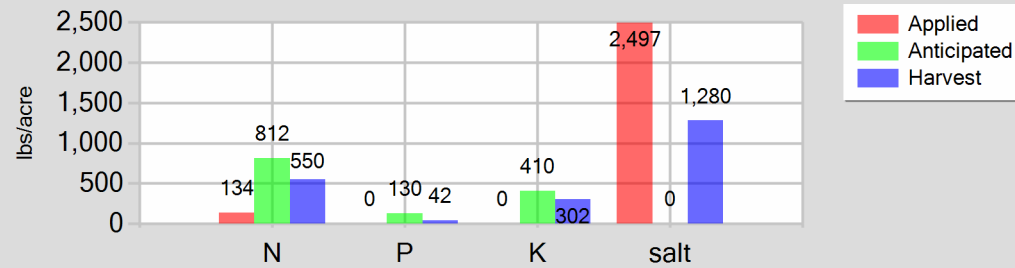
Field 14 - 01/01/2023: Alfalfa, hay

Field name: Field 14

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	0.00	0.00	0.00	0.00
Fresh water	120.16	0.00	0.00	2,496.84
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	134.16	0.00	0.00	2,496.84
Anticipated crop nutrient removal	812.00	130.00	410.00	0.00
Actual crop nutrient removal	549.90	41.63	301.84	1,279.77
Nutrient balance	-415.73	-41.63	-301.84	1,217.08
Applied to removed ratio	0.24	0.00	0.00	1.95

Fresh water applied
28,917,000.00 <i>gallons</i>
1,064.91 <i>acre-inches</i>
21.73 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

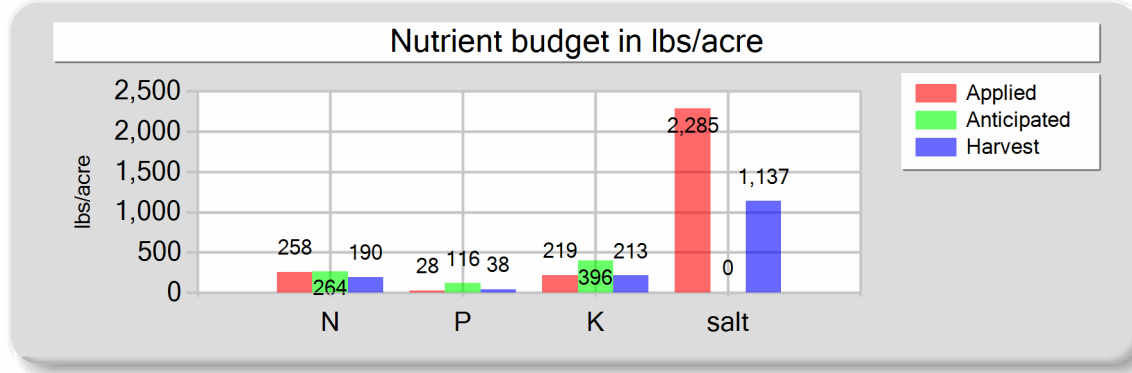
Reporting period 01/01/2023 to 12/31/2023.

Field 15 - 11/10/2022: Wheat, silage, boot stage

Field name: Field 15

Crop: Wheat, silage, boot stage

Plant date: 11/10/2022



	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	134.10	27.90	218.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	109.95	0.00	0.00	2,284.69
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	258.05	27.90	218.70	2,284.69
Anticipated crop nutrient removal	264.00	116.00	396.00	0.00
Actual crop nutrient removal	190.38	38.08	213.23	1,136.52
Nutrient balance	67.67	-10.18	5.47	1,148.17
Applied to removed ratio	1.36	0.73	1.03	2.01

Fresh water applied
21,060,000.00 <i>gallons</i>
775.57 <i>acre-inches</i>
19.89 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

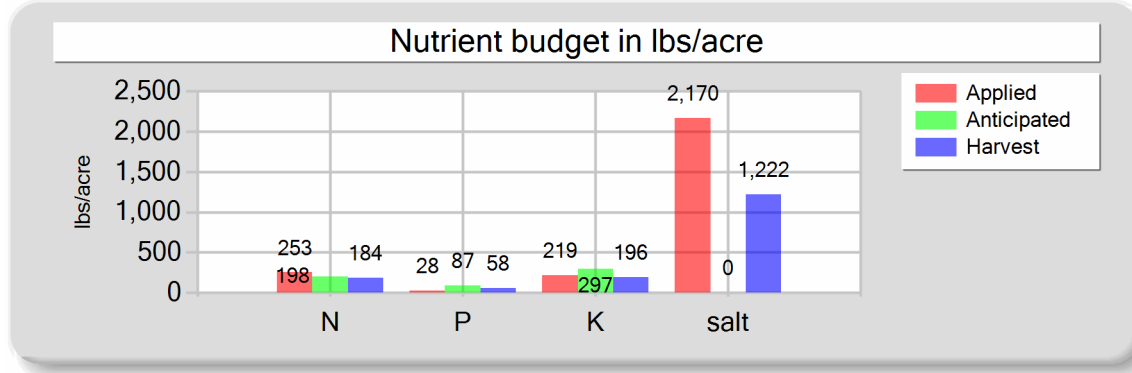
Reporting period 01/01/2023 to 12/31/2023.

Field 17 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 17

Crop: Wheat, silage, boot stage

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	134.10	27.90	218.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	104.46	0.00	0.00	2,170.46
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	252.56	27.90	218.70	2,170.46
Anticipated crop nutrient removal	198.00	87.00	297.00	0.00
Actual crop nutrient removal	184.00	57.50	195.50	1,221.76
Nutrient balance	68.56	-29.60	23.20	948.70
Applied to removed ratio	1.37	0.49	1.12	1.78

Fresh water applied
10,773,000.00 <i>gallons</i>
396.73 <i>acre-inches</i>
18.89 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

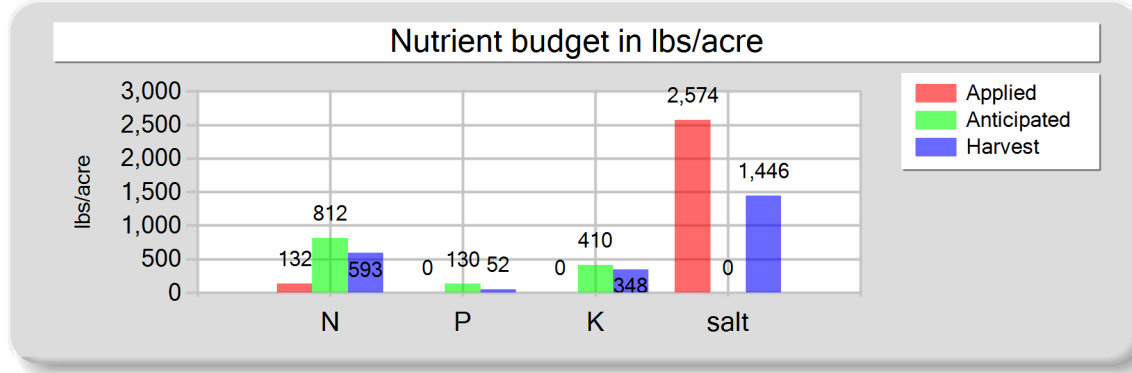
Reporting period 01/01/2023 to 12/31/2023.

Field 18 - 01/01/2023: Alfalfa, hay

Field name: Field 18

Crop: Alfalfa, hay

Plant date: 01/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	24,894,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	916.76 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	26.96 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	117.92	0.00	0.00	2,573.54	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	131.92	0.00	0.00	2,573.54	
Anticipated crop nutrient removal	812.00	130.00	410.00	0.00	
Actual crop nutrient removal	592.94	51.88	348.35	1,446.11	
Nutrient balance	-461.02	-51.88	-348.35	1,127.43	
Applied to removed ratio	0.22	0.00	0.00	1.78	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

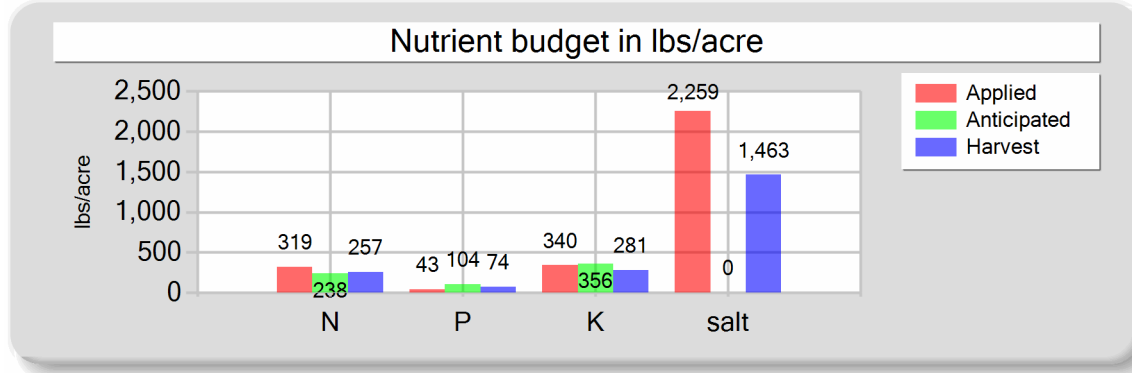
Reporting period 01/01/2023 to 12/31/2023.

Field 19 - 11/12/2022: Wheat, silage, boot stage

Field name: Field 19

Crop: Wheat, silage, boot stage

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	208.60	43.40	340.20	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	103.50	0.00	0.00	2,258.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.10	43.40	340.20	2,258.68
Anticipated crop nutrient removal	237.60	104.40	356.40	0.00
Actual crop nutrient removal	257.40	74.10	280.80	1,463.44
Nutrient balance	61.70	-30.70	59.40	795.25
Applied to removed ratio	1.24	0.59	1.21	1.54

Fresh water applied
19,278,000.00 <i>gallons</i>
709.94 <i>acre-inches</i>
23.66 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

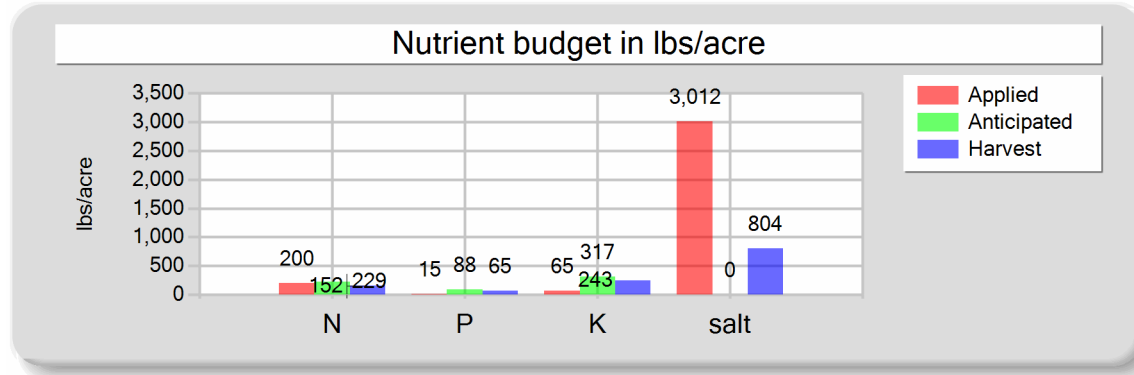
Reporting period 01/01/2023 to 12/31/2023.

Field 19 - 06/08/2023: Corn, silage

Field name: Field 19

Crop: Corn, silage

Plant date: 06/08/2023



	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	55.20	15.00	64.50	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	137.99	0.00	0.00	3,011.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	200.19	15.00	64.50	3,011.58
Anticipated crop nutrient removal	228.80	88.40	317.20	0.00
Actual crop nutrient removal	151.67	65.00	242.67	804.27
Nutrient balance	48.53	-50.00	-178.17	2,207.31
Applied to removed ratio	1.32	0.23	0.27	3.74

Fresh water applied
25,704,000.00 <i>gallons</i>
946.59 <i>acre-inches</i>
31.55 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

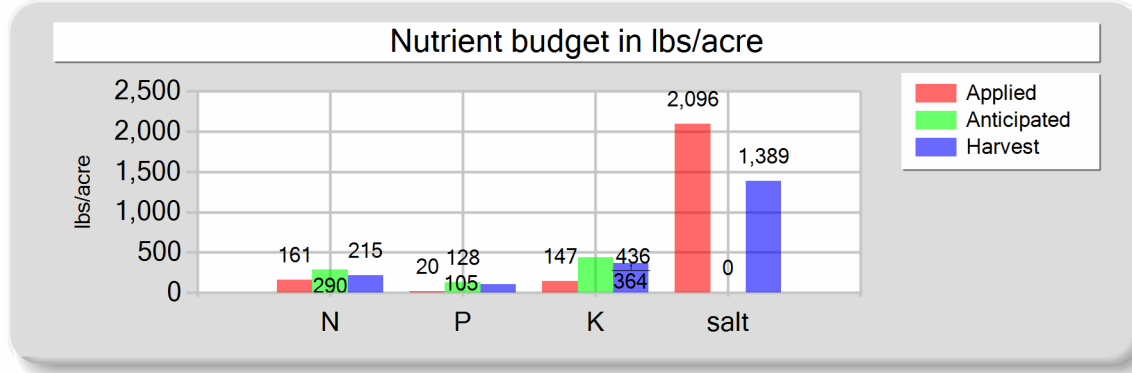
Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 11/09/2022: Wheat, silage, boot stage

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/09/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	40,680,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,498.11 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.71 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	114.59	19.79	146.70	788.60	Process wastewater applied
Fresh water	39.85	0.00	0.00	1,307.72	2,025,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	74.57 <i>acre-inches</i>
Total nutrients applied	161.44	19.79	146.70	2,096.32	1.08 <i>inches/acre</i>
Anticipated crop nutrient removal	290.40	127.60	435.60	0.00	
Actual crop nutrient removal	214.62	105.49	363.77	1,389.38	Total harvests for the crop
Nutrient balance	-53.18	-85.70	-217.07	706.94	1 <i>harvests</i>
Applied to removed ratio	0.75	0.19	0.40	1.51	

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

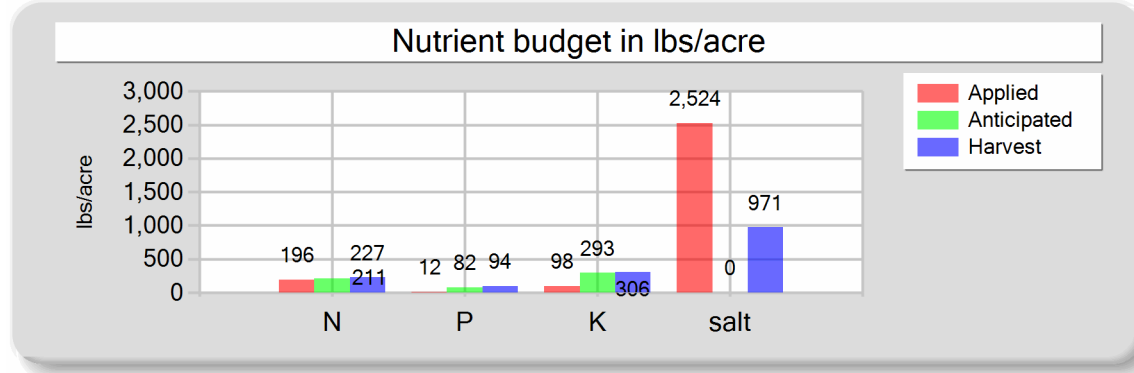
Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 06/03/2023: Corn, silage

Field name: Field 2

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	50.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	79.89	11.53	98.19	565.18
Fresh water	58.80	0.00	0.00	1,958.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	195.70	11.53	98.19	2,523.78
Anticipated crop nutrient removal	211.20	81.60	292.80	0.00
Actual crop nutrient removal	226.67	93.62	305.51	971.12
Nutrient balance	-30.97	-82.09	-207.32	1,552.67
Applied to removed ratio	0.86	0.12	0.32	2.60

Fresh water applied
63,060,000.00 <i>gallons</i>
2,322.29 <i>acre-inches</i>
33.66 <i>inches/acre</i>

Process wastewater applied
1,566,000.00 <i>gallons</i>
57.67 <i>acre-inches</i>
0.84 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

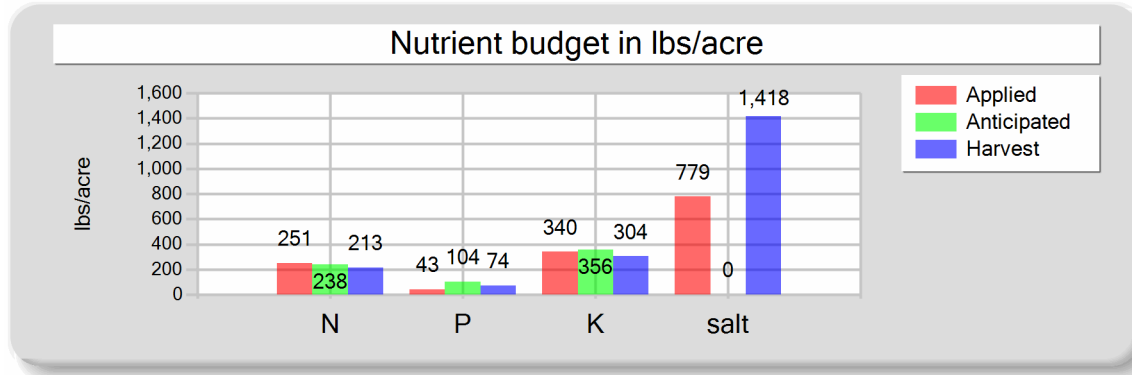
Reporting period 01/01/2023 to 12/31/2023.

Field 20 - 11/13/2022: Wheat, silage, boot stage

Field name: Field 20

Crop: Wheat, silage, boot stage

Plant date: 11/13/2022



	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	208.60	43.40	340.20	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	35.69	0.00	0.00	778.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	251.29	43.40	340.20	778.86
Anticipated crop nutrient removal	237.60	104.40	356.40	0.00
Actual crop nutrient removal	213.01	73.90	304.30	1,417.86
Nutrient balance	38.28	-30.50	35.90	-639.00
Applied to removed ratio	1.18	0.59	1.12	0.55

Fresh water applied
19,278,000.00 <i>gallons</i>
709.94 <i>acre-inches</i>
8.16 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

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

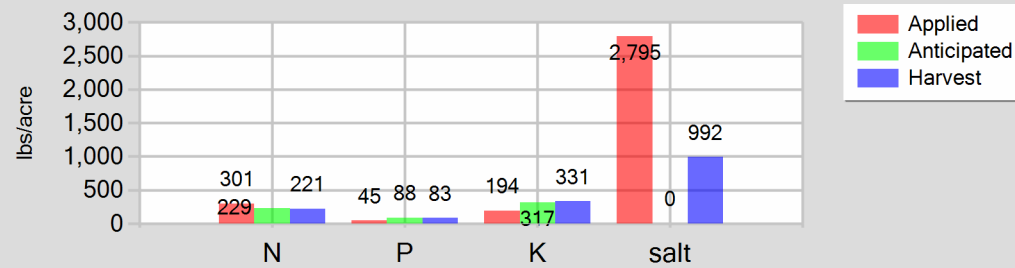
Field 20 - 06/09/2023: Corn, silage

Field name: Field 20

Crop: Corn, silage

Plant date: 06/09/2023

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	165.60	45.00	193.50	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	128.06	0.00	0.00	2,794.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.66	45.00	193.50	2,794.72
Anticipated crop nutrient removal	228.80	88.40	317.20	0.00
Actual crop nutrient removal	220.69	82.76	331.03	992.11
Nutrient balance	79.97	-37.76	-137.53	1,802.61
Applied to removed ratio	1.36	0.54	0.58	2.82

Fresh water applied
69,174,000.00 <i>gallons</i>
2,547.44 <i>acre-inches</i>
29.28 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

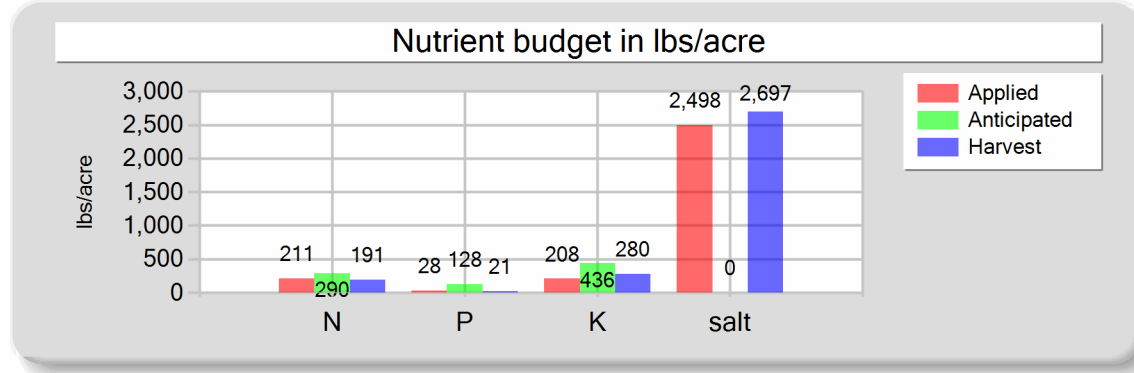
Reporting period 01/01/2023 to 12/31/2023.

Field 3 - 11/08/2022: Wheat, silage, boot stage

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/08/2022



	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	162.19	28.01	207.64	1,116.18
Fresh water	42.12	0.00	0.00	1,382.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	211.31	28.01	207.64	2,498.22
Anticipated crop nutrient removal	290.40	127.60	435.60	0.00
Actual crop nutrient removal	191.28	21.25	279.84	2,697.33
Nutrient balance	20.02	6.75	-72.21	-199.10
Applied to removed ratio	1.10	1.32	0.74	0.93

Fresh water applied
16,200,000.00 <i>gallons</i>
596.59 <i>acre-inches</i>
22.95 <i>inches/acre</i>

Process wastewater applied
1,080,000.00 <i>gallons</i>
39.77 <i>acre-inches</i>
1.53 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

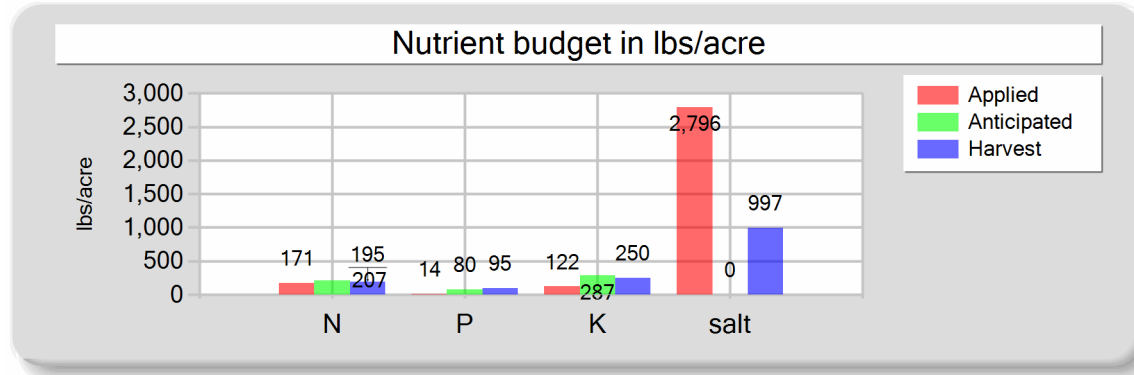
Reporting period 01/01/2023 to 12/31/2023.

Field 3 - 06/01/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/01/2023



	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	100.13	13.81	121.90	712.69
Fresh water	63.49	0.00	0.00	2,083.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	170.62	13.81	121.90	2,796.00
Anticipated crop nutrient removal	206.80	79.90	286.70	0.00
Actual crop nutrient removal	195.00	95.00	250.00	996.80
Nutrient balance	-24.38	-81.19	-128.10	1,799.20
Applied to removed ratio	0.87	0.15	0.49	2.80

Fresh water applied
24,420,000.00 gallons
899.31 acre-inches
34.59 inches/acre

Process wastewater applied
756,000.00 gallons
27.84 acre-inches
1.07 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.

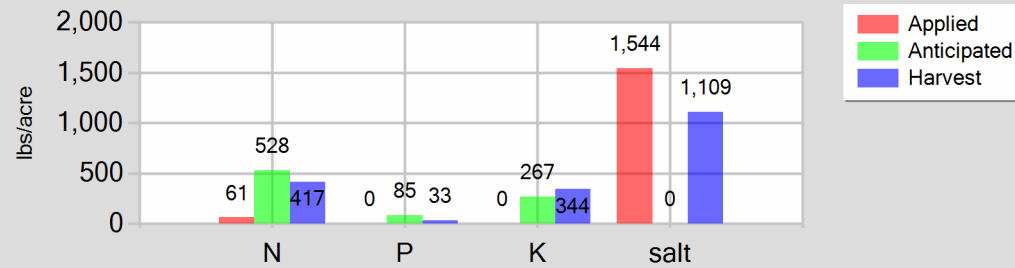
Field 4 - 01/01/2023: Alfalfa, hay

Field name: Field 4

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	0.00	0.00	0.00	0.00
Fresh water	47.05	0.00	0.00	1,543.80
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	61.05	0.00	0.00	1,543.80
Anticipated crop nutrient removal	527.80	84.50	266.50	0.00
Actual crop nutrient removal	417.28	33.28	344.32	1,109.47
Nutrient balance	-356.23	-33.28	-344.32	434.33
Applied to removed ratio	0.15	0.00	0.00	1.39

Fresh water applied
3,480,000.00 <i>gallons</i>
128.16 <i>acre-inches</i>
25.63 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

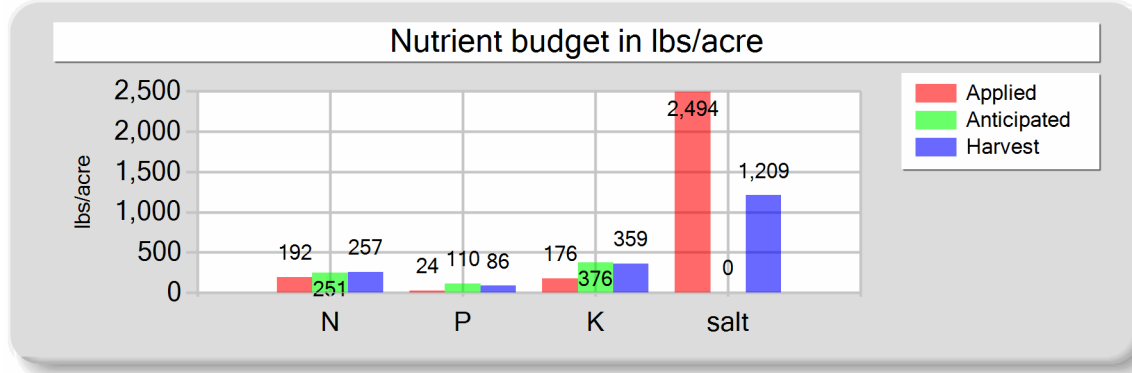
Reporting period 01/01/2023 to 12/31/2023.

Field 5 - 11/09/2022: Wheat, silage, boot stage

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/09/2022



	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	137.59	23.76	176.14	946.86
Fresh water	47.16	0.00	0.00	1,547.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	191.74	23.76	176.14	2,494.27
Anticipated crop nutrient removal	250.80	110.20	376.20	0.00
Actual crop nutrient removal	257.29	85.76	358.64	1,208.63
Nutrient balance	-65.54	-62.00	-182.51	1,285.63
Applied to removed ratio	0.75	0.28	0.49	2.06

Fresh water applied
41,160,000.00 <i>gallons</i>
1,515.78 <i>acre-inches</i>
25.69 <i>inches/acre</i>

Process wastewater applied
2,079,000.00 <i>gallons</i>
76.56 <i>acre-inches</i>
1.30 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

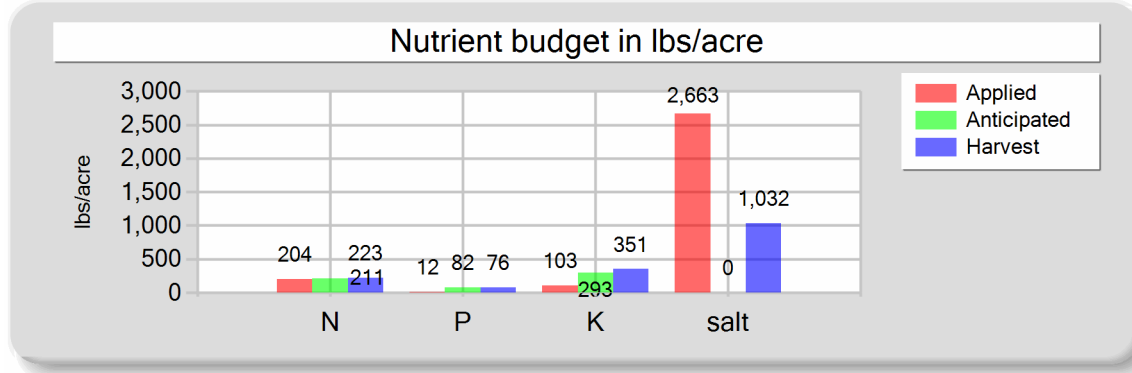
Reporting period 01/01/2023 to 12/31/2023.

Field 5 - 06/03/2023: Corn, silage

Field name: Field 5

Crop: Corn, silage

Plant date: 06/03/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	55,080,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,028.41 <i>acre-inches</i>
Commercial fertilizer / Other	50.00	0.00	0.00	0.00	34.38 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	83.79	12.10	102.98	592.69	Process wastewater applied
Fresh water	63.10	0.00	0.00	2,070.73	1,404,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	51.70 <i>acre-inches</i>
Total nutrients applied	203.89	12.10	102.98	2,663.42	0.88 <i>inches/acre</i>
Anticipated crop nutrient removal	211.20	81.60	292.80	0.00	
Actual crop nutrient removal	223.05	75.93	351.19	1,032.20	Total harvests for the crop
Nutrient balance	-19.16	-63.83	-248.21	1,631.22	1 <i>harvests</i>
Applied to removed ratio	0.91	0.16	0.29	2.58	

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

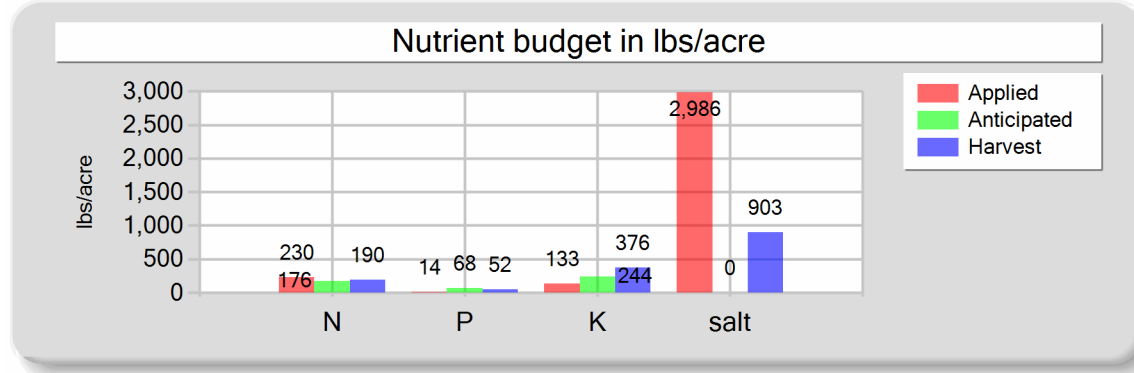
Reporting period 01/01/2023 to 12/31/2023.

Field 6 & 7 - 06/05/2023: Corn, silage

Field name: Field 6 & 7

Crop: Corn, silage

Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	14,883,960.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	548.13 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	26.10 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	110.92	14.06	132.79	797.83	Process wastewater applied
Fresh water	105.28	0.00	0.00	2,187.81	702,000.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	25.85 <i>acre-inches</i>
Total nutrients applied	230.19	14.06	132.79	2,985.64	1.23 <i>inches/acre</i>
Anticipated crop nutrient removal	176.00	68.00	244.00	0.00	
Actual crop nutrient removal	190.48	52.38	376.19	902.57	Total harvests for the crop
Nutrient balance	39.72	-38.32	-243.40	2,083.07	1 <i>harvests</i>
Applied to removed ratio	1.21	0.27	0.35	3.31	

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

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

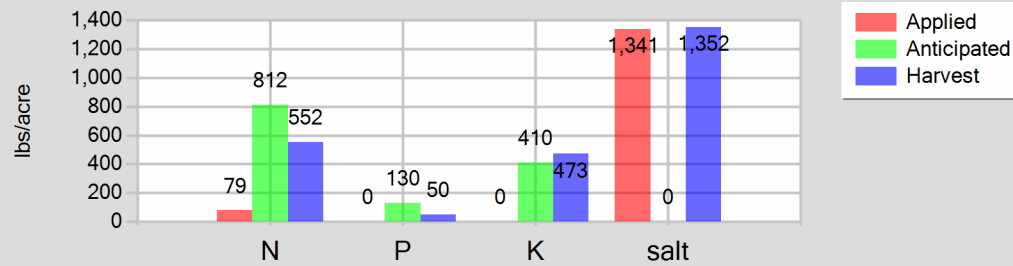
Field 8 - 01/01/2023: Alfalfa, hay

Field name: Field 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	0.00	0.00	0.00	0.00
Fresh water	64.51	0.00	0.00	1,340.54
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	78.51	0.00	0.00	1,340.54
Anticipated crop nutrient removal	812.00	130.00	410.00	0.00
Actual crop nutrient removal	552.48	49.74	472.54	1,352.34
Nutrient balance	-473.97	-49.74	-472.54	-11.80
Applied to removed ratio	0.14	0.00	0.00	0.99

Fresh water applied
36,913,800.00 <i>gallons</i>
1,359.41 <i>acre-inches</i>
15.99 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

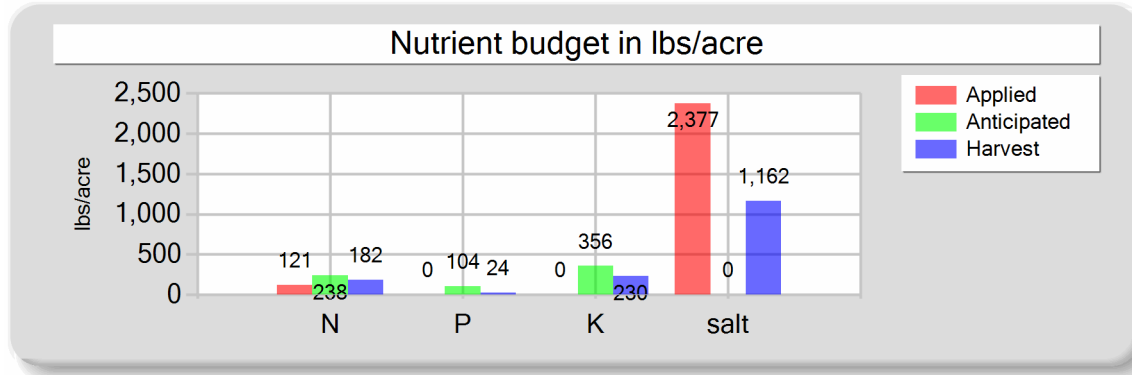
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 11/08/2022: Wheat, silage, boot stage

Field name: Field 9

Crop: Wheat, silage, boot stage

Plant date: 11/08/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	43,901,760.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,616.75 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	28.36 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	114.41	0.00	0.00	2,377.48	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	121.41	0.00	0.00	2,377.48	
Anticipated crop nutrient removal	237.60	104.40	356.40	0.00	
Actual crop nutrient removal	181.93	23.86	229.65	1,161.61	
Nutrient balance	-60.52	-23.86	-229.65	1,215.88	
Applied to removed ratio	0.67	0.00	0.00	2.05	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

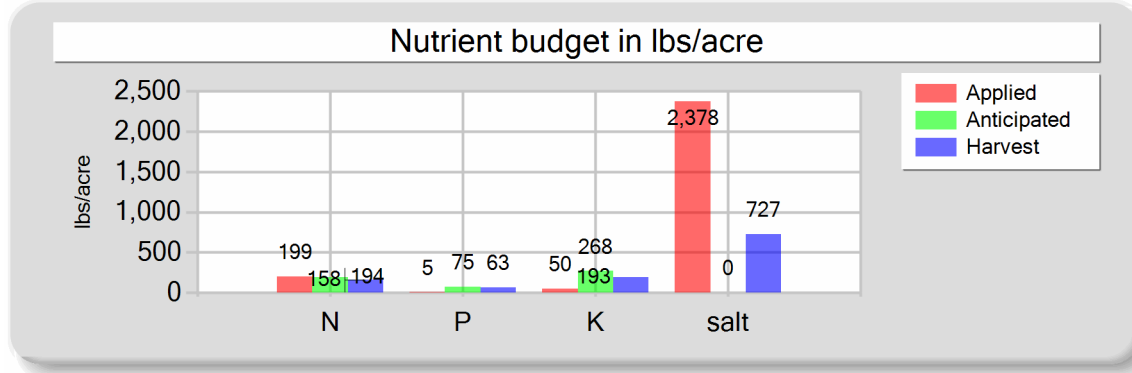
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 06/08/2023: Corn, silage

Field name: Field 9

Crop: Corn, silage

Plant date: 06/08/2023



	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	50.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	41.65	5.28	49.86	299.59
Fresh water	100.00	0.00	0.00	2,078.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	198.65	5.28	49.86	2,377.75
Anticipated crop nutrient removal	193.60	74.80	268.40	0.00
Actual crop nutrient removal	157.75	63.10	193.25	727.41
Nutrient balance	40.90	-57.82	-143.39	1,650.35
Applied to removed ratio	1.26	0.08	0.26	3.27

Fresh water applied
38,374,560.00 <i>gallons</i>
1,413.20 <i>acre-inches</i>
24.79 <i>inches/acre</i>

Process wastewater applied
715,500.00 <i>gallons</i>
26.35 <i>acre-inches</i>
0.46 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

22I0579

Sample and source description: 22I0579

Sample date: 09/07/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 44.2 %

	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	14,900.00	3,100.00	24,300.00	8,200.00	4,000.00	6,900.00	2,900.00	5,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23F0746

Sample and source description: 23F0746

Sample date: 06/06/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 20.8 %

	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	18,400.00	5,000.00	21,500.00	14,800.00	6,700.00	5,900.00	4,000.00	3,000.00		0.00
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10.00

23I1709

Sample and source description: 23I1709

Sample date: 09/26/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 46.0 %

	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	12,500.00	3,400.00	10,200.00							0.00
DL	0.01	0.01	0.01							10.00

B. PROCESS WASTEWATER ANALYSES

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

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

23C0853

Sample and source description: 23C0853

Sample date: 03/28/2023 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	467.00	369.00	0.00	0.90	80.80	599.00									3,220
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

23F0722

Sample and source description: 23F0722

Sample date: 06/06/2023 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	397.00	325.00	0.00	0.60	50.40	476.00	138.00	96.40	192.00	2,730.00	0.00	46.30	149.00		2,860
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

23I1697

Sample and source description: 23I1697

Sample date: 09/26/2023 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	398.00	321.00	0.00	0.70	75.90	405.00	155.00	95.20	183.00	2,400.00	0.00	17.80	104.00		2,980
DL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		10

23L0350

Sample and source description: 23L0350

Sample date: 12/06/2023 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	641.00	460.00	0.00	0.40	88.20	634.00									4,180
DL	0.01	0.01	0.01	0.01	0.01	0.01									10

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

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

C. FRESH WATER ANALYSES

Ditch

23L0911

Sample description: 23L0911

Sample date: 12/13/2023 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	0.20										73.20	
DL	0.01										10.00	

F1

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	8.10										443.00	
DL	0.01										10.00	

F2

23L0909

Sample description: 23L0909

Sample date: 12/13/2023 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	4.90			16.40	0.00	53.00	107.00	0.00	14.20	8.90	320.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

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

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

F3

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	8.00										365.00	
DL	0.01										10.00	

F5

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	23.60										736.00	
DL	0.01										10.00	

F6

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	12.00										497.00	
DL	0.01										10.00	

F8

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

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

F8

23L0909

Sample description: 23L0909

Sample date: 12/13/2023 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	2.40			13.80	0.00	47.00	120.00	5.00	8.80	5.00	391.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

F9

23L0909

Sample description: 23L0909

Sample date: 12/13/2023 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	0.90			13.70	0.00	51.00	122.00	0.00	4.70	2.80	283.00	
DL	0.01			0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	

H1

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	28.00										929.00	
DL	0.01										10.00	

H2

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

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

H2

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	20.80										761.00	
DL	0.01										10.00	

H3

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	25.80										916.00	
DL	0.01										10.00	

H4

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	19.00										710.00	
DL	0.01										10.00	

R1

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

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

R1

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	19.30										702.00	
DL	0.01										10.00	

R2

23L0910

Sample description: 23L0910

Sample date: 12/13/2023 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	31.40										870.00	
DL	0.01										10.00	

D. SOIL ANALYSES*No soil analyses entered.***E. PLANT TISSUE ANALYSES**

Field 1 North - 04/25/2023: Corn, silage

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

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

Field 1 North - 04/25/2023: Corn, silage

23H0642

Sample and source description: 23H0642

Sample date: 08/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,900.00	5,500.00		6.30
DL	0.01	0.01	0.01		0.01

Field 1 South - 04/26/2023: Corn, silage

23H0642

Sample and source description: 23H0642

Sample date: 08/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	2,200.00	6,000.00		5.50
DL	0.01	0.01	0.01		0.01

Field 11&12 - 11/10/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 57.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	700.00	5,900.00		8.50
DL	0.01	0.01	0.01		0.01

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

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

Field 11&12 - 06/10/2023: Corn, silage

2311711

Sample and source description: 2311711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,500.00	4,000.00		4.50
DL	0.01	0.01	0.01		0.01

Field 13 - 01/01/2023: Alfalfa, hay

2394976

Sample and source description: 2394976

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,100.00	2,800.00	17,800.00		7.89
DL	0.01	0.01	0.01		0.01

Field 14 - 01/01/2023: Alfalfa, hay

2394972

Sample and source description: 2394972

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,700.00	2,400.00	17,400.00		8.28
DL	0.01	0.01	0.01		0.01

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

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

Field 15 - 11/10/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,000.00	5,600.00		8.20
DL	0.01	0.01	0.01		0.01

Field 17 - 11/12/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	1,500.00	5,100.00		9.60
DL	0.01	0.01	0.01		0.01

Field 18 - 01/01/2023: Alfalfa, hay

2394973

Sample and source description: 2394973

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,000.00	2,800.00	18,800.00		8.72
DL	0.01	0.01	0.01		0.01

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

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

Field 19 - 11/12/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,900.00	7,200.00		11.80
DL	0.01	0.01	0.01		0.01

Field 19 - 06/08/2023: Corn, silage

23I1711

Sample and source description: 23I1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	1,500.00	5,600.00		5.80
DL	0.01	0.01	0.01		0.01

Field 2 - 11/09/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	2,900.00	10,000.00		11.30
DL	0.01	0.01	0.01		0.01

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

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

Field 2 - 06/03/2023: Corn, silage

23I1711

Sample and source description: 23I1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	1,900.00	6,200.00		5.20
DL	0.01	0.01	0.01		0.01

Field 20 - 11/13/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,700.00	7,000.00		10.80
DL	0.01	0.01	0.01		0.01

Field 20 - 06/09/2023: Corn, silage

23I1711

Sample and source description: 23I1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,500.00	6,000.00		5.40
DL	0.01	0.01	0.01		0.01

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

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

Field 3 - 11/08/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 31.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	600.00	7,900.00		11.10
DL	0.01	0.01	0.01		0.01

Field 3 - 06/01/2023: Corn, silage

23I1711

Sample and source description: 23I1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	1,900.00	5,000.00		5.60
DL	0.01	0.01	0.01		0.01

Field 4 - 01/01/2023: Alfalfa, hay

2394974

Sample and source description: 2394974

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,600.00	2,600.00	26,900.00		9.75
DL	0.01	0.01	0.01		0.01

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

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

Field 5 - 11/09/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	2,200.00	9,200.00		9.20
DL	0.01	0.01	0.01		0.01

Field 5 - 06/03/2023: Corn, silage

23I1711

Sample and source description: 23I1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,600.00	7,400.00		5.80
DL	0.01	0.01	0.01		0.01

Field 6 & 7 - 06/05/2023: Corn, silage

23U1711

Sample and source description: 23U1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,100.00	7,900.00		5.40
DL	0.01	0.01	0.01		0.01

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

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

Field 8 - 01/01/2023: Alfalfa, hay

2394977

Sample and source description: 2394977

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 12.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,100.00	2,800.00	26,600.00		8.70
DL	0.01	0.01	0.01		0.01

Field 9 - 11/08/2022: Wheat, silage, boot stage

23E0788

Sample and source description: 23E0788

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	800.00	7,700.00		10.70
DL	0.01	0.01	0.01		0.01

Field 9 - 06/08/2023: Corn, silage

23I1711

Sample and source description: 23I1711

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,600.00	4,900.00		5.30
DL	0.01	0.01	0.01		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

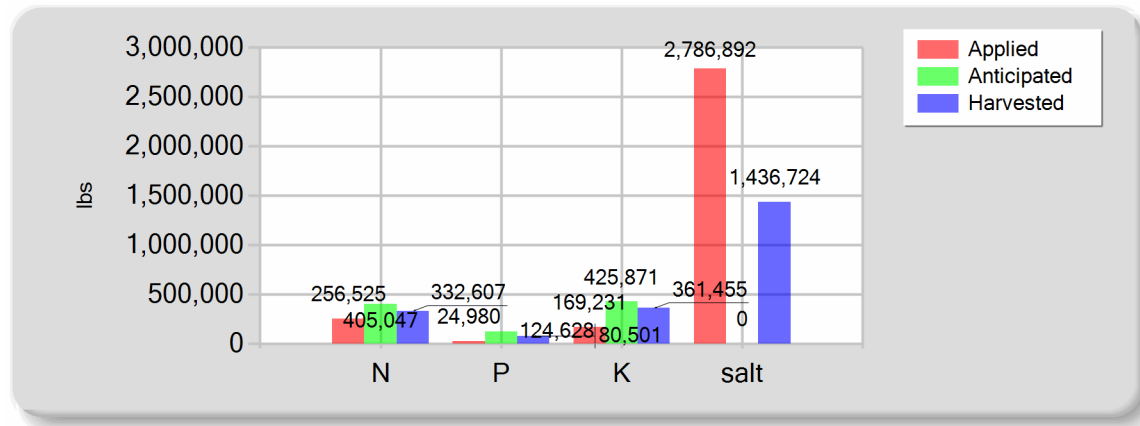
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

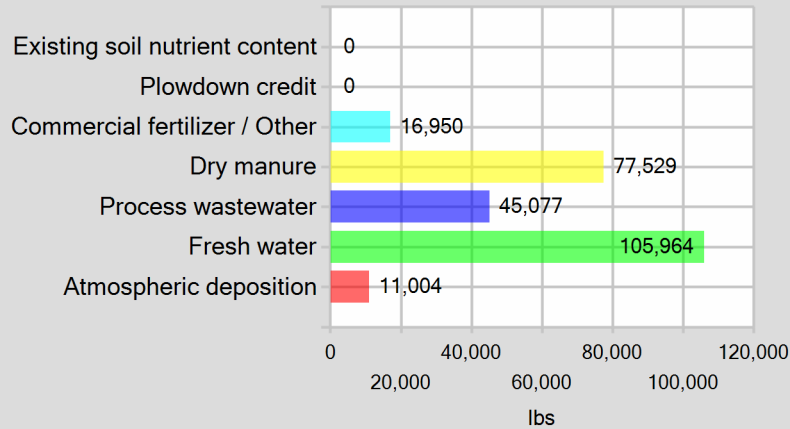
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	16,950.00	0.00	0.00	0.00
Dry manure	77,529.40	17,987.60	112,955.30	0.00
Process wastewater	45,077.33	6,992.25	56,276.03	315,582.95
Fresh water	105,963.88	0.00	0.00	2,471,309.08
Atmospheric deposition	11,004.00	0.00	0.00	0.00
Total nutrients applied	256,524.61	24,979.85	169,231.33	2,786,892.03
Anticipated crop nutrient removal	405,047.00	124,627.70	425,870.50	0.00
Actual crop nutrient removal	332,607.40	80,501.30	361,455.00	1,436,724.22
Nutrient balance	-76,082.79	-55,521.45	-192,223.67	1,350,167.81
Applied to removed ratio	0.77	0.31	0.47	1.94

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

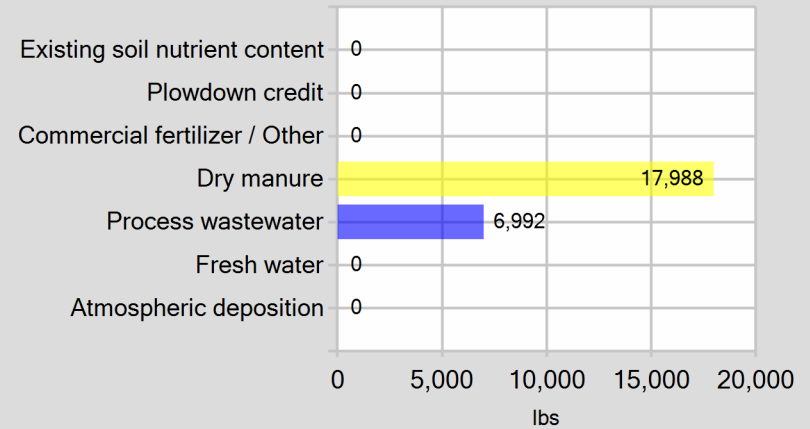


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

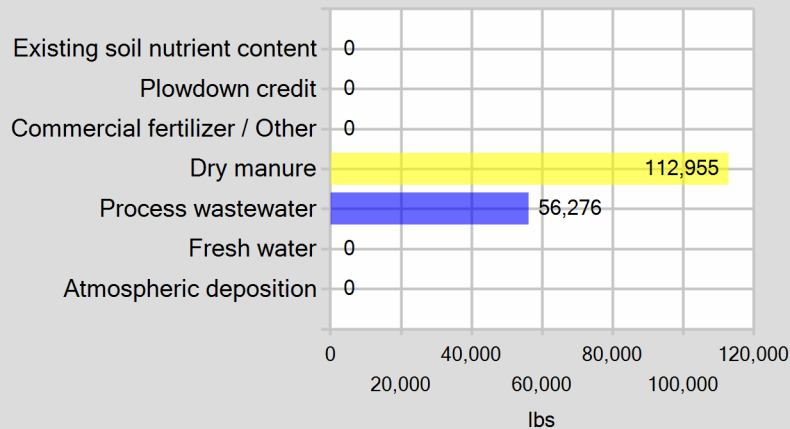
Pounds of nitrogen applied



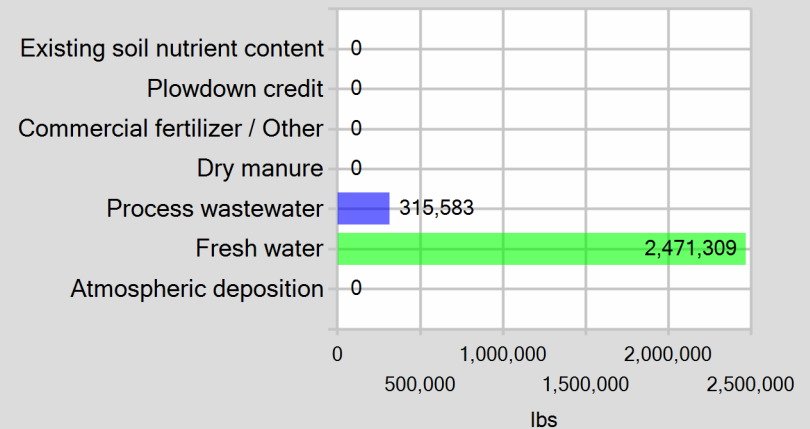
Pounds of phosphorus applied



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? Yes

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

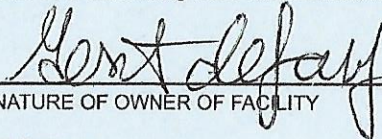
No notes entered for this annual report.

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.

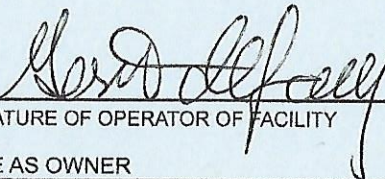

SIGNATURE OF OWNER OF FACILITY

Gerrit DeJong

PRINT OR TYPE NAME

6-30-24

DATE


SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

6-30-24

DATE

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.

Report of Dairy Well Water Analysis

Felicita Dairy
22154 Road 20
Tulare CA 93274
00-0015878 08

Lab No.: 23L0909
Sampled By: Luke
Requested By: Marty Verhoeven
Submitted Date: 12/14/23
Reported Date: 12/21/23
Project: 22154 Road 20, Tulare 93274
Crop ID:

E-mail: martyverhoeven@gmail.com
Copy To: lukedejong34@yahoo.com

		Date Sampled	Time Sampled	EC µmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	Field NH ₄ -N mg/L	Total NH ₄ -N mg/L	TDS mg/L	CO ₃ as CaCO ₃ mg/L	HCO ₃ as CaCO ₃ mg/L	Cl mg/L	SO ₄ mg/L	Ca mg/L	Mg mg/L	Na mg/L	pH at 25°C unit
1	F8	12/13/23	15:22	391	0.39	2.4	*		192	5	120	5.0	8.8	13.8	ND	47	8.5
2	F9	12/13/23	15:27	283	0.28	0.9	*		192	ND	122	2.8	4.7	13.7	ND	51	7.3
3	F2	12/13/23	14:50	320	0.32	4.9	*		245	ND	107	8.9	14.2	16.4	ND	53	7.6

* = Field NH₄-N not Taken.
ND = None Detected

Approved By: Scott McFriedland
Laboratory Director/Technical Manager
ELAP Certification #1595
A2LA Certification #6440.02

12/14/23 07:00

23L0909

WATER WORK REQUEST

Bill To:

15878

08

Purchase Order No.

Results Needed By

Client **Felicita Dairy**
 Address **22154 Road 20**
 City, State, Zip **Tulare, CA 93274**
 Email: **lukedejong34@yahoo.com**

Copy to: **martyverhoeven@gmail.com**Requested by/Cell: **Marty Verhoeven/ 559-410-2420**Facility: **22154 Road 20, Tulare 93274**Date sampled **12/13/23**Sampled by **LUKE**☒ QA/QC Document☒ Copy of Chain☐ RWQCB

DESCRIPTION OF SAMPLES

1. F8	Sampled From:
2. F9	Sampled From:
3. F2	Sampled From:
4.	Sampled From:
5.	Sampled From:
6.	Sampled From:
7.	Sampled From:
8.	Sampled From:
9.	Sampled From:
10.	Sampled From:

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
 www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples **3**No. Bottles **3**

Water Type:

☒ Ag Water
☐ Supply Water

☐ Drinking
☐ Ground Water
☐ Other

☐ Wastewater
☐ Mon. Well

Analysis and Bottles Required: (Please Indicate Analysis)

☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)

(1) 1 L plastic, unpreserved (white)

☒ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)

(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO₃-N, TDS)

(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)

(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)

(1) 1 L plastic, unpreserved (white)

☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/13/23	3:22 pm		53.10.1
12/13/23	3:27		14.8 / -1.1
12/13/23	2:50		110.8 / -0.6

IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 03/06/2024
 Location: Laboratory

IR Thermometer SN: 221511276
 Correction Factor: 0°C
 Calibration Due: 03/06/2024
 Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Luke Dejong</i>	Felicita Dairy	12-13-23	12/13/23 4:04 pm
Second	<i>Ypp</i>	DLI	12/13/23 4:04 pm	
Third	<i>AW</i>	ALC	12/14/ 07:00	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be made with samples unless terms have been previously arranged. Terms are net 30 days. Overdue accounts will be charged a stated damage fee of 2% per month (monthly 24% or \$5.00 per month whichever is greater). If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternatives to Litigation, Inc. (CALI). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through CALI under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. However, the mediator declares that no legitimate dispute exists, then neither will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney's fees of Dellavalle Laboratory.

Invoicing Information:

Price List 2023

Sampling Hrs _____ Miles _____ Consulting _____

Amt Paid

Rec By

Check No

Date

Shipping

\$ _____ In
 \$ _____ Out

Signature _____

Sample received in cooler with ice?

☐ Yes ☐ No

© update 2020

Report of Dairy Well Water Analysis

Felicita Dairy
22154 Road 20
Tulare
00-0015878

CA 93274
08

E-mail: martyverhoeven@gmail.com
Copy To: lukedejong34@yahoo.com

Lab No.: 23L0910
Sampled By: Luke
Requested By: Marty Verhoeven
Submitted Date: 12/14/23
Reported Date: 12/21/23
Project: 22154 Road 20, Tulare 93274
Crop ID:

		Date	Time	EC	EC	NO ₃ -N	Field NH ₄ -N	Total NH ₄ -N	pH at 25°C
		Sampled	Sampled	µmhos/cm	mmhos/cm	mg/L	mg/L	mg/L	unit
1	H3	12/13/23	14:14	916	0.92	25.8	*		7.4
2	R2	12/13/23	14:35	870	0.87	31.4	*		7.6
3	F6	12/13/23	15:19	497	0.50	12.0	*		8.0
4	F5	12/13/23	15:11	736	0.74	23.6	*		7.9
5	F3	12/13/23	15:01	365	0.36	8.0	*		8.1
6	R1	12/13/23	14:30	702	0.70	19.3	*		7.7
7	F1	12/13/23	14:42	443	0.44	8.1	*		8.0
8	H4	12/13/23	14:24	710	0.71	19.0	*		7.8
9	H2	12/13/23	14:10	761	0.76	20.8	*		7.7
10	H1	12/13/23	14:00	929	0.93	28.0	*		7.7

* = Field NH₄-N not Taken.

ND = None Detected

Approved By:

Scott M. Friedland

Laboratory Director/Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02



12/14/23 07:00

23L0910

a

WATER WORK REQUEST
 Bill To: Acct No 15878 Cons 08

Purchase Order No. _____ Results Needed By _____

 Client Felicita Dairy
 Address 22154 Road 20
 City, State, Zip Tulare, CA 93274
 Email: lukedejong34@yahoo.com

 Copy to: martyverhoeven@gmail.com

 Requested by/Cell: Marty Verhoeven/ 559-410-2420

 Facility: 22154 Road 20, Tulare 93274

 Date sampled 12/13/23

 Sampled by Luke
☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB
DESCRIPTION OF SAMPLES

1. <u>H3</u>	Sampled From
2. <u>R2</u>	Sampled From
3. <u>F10</u>	Sampled From
4. <u>F5</u>	Sampled From
5. <u>F3</u>	Sampled From
6. <u>R1</u>	Sampled From
7. <u>F1</u>	Sampled From
8. <u>H4</u>	Sampled From
9. <u>H2</u>	Sampled From
10. <u>H1</u>	Sampled From

DELLAVALLE LABORATORY, INC.
 1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
 www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

 No. of Samples 10 No. Bottles 10
Water Type:
☒ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other _____
Analysis and Bottles Required: (Please Indicate Analysis)

- ☒ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (1) 1 L plastic, unpreserved (white)
- ☐ Other _____

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C	H/F
12/13/23	2:14		16.6	1-0.1
12/13/23	2:35		16.1	1-0.6
12/13/23	3:19		15.3	1-0.8
12/13/23	3:11		15.3	1-0.4
12/13/23	3:01		16.6	1-0.4
12/13/23	2:30		16.4	1-0.6
12/13/23	2:42		16.1	1-0.3
12/13/23	2:24		17.1	1-0.6
12/13/23	2:10		16.6	1-0.7
12/13/23	2:00		16.9	1-0.3

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Luke de Jong</u>	<u>Felicita Dairy</u>	<u>12-13-23</u>	<u>12/13/23 4:04pm</u>
Second	<u>UP2</u>	<u>DU</u>	<u>12/13/23 4:04pm</u>	
Third	<u>gnt</u>	<u>ATI</u>	<u>12/14 office</u>	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, or else accounts will be charged a dated damage fee of 2% per month. If payment is not made within the due date and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Art of Arbitration, reasonable attorney's fees of Dellavalle Laboratory. The prices will equally bear the costs of mediation arbitration. If however, the mediator declares that no legitimate dispute exists, the mediator's decision shall be final and binding.

Invoicing Information:**Price List 2023**

Sampling Hrs			Miles			Consulting			Shipping		
\$			\$			\$			\$		
Am Paid	Rec By	Check No									

 Signature _____
 Sample received IR Thermometer SN: 221511276
 Correction Factor: 0°C
 Calibration Due: 03/06/2024
 Location: Hanford

Report of Dairy Canal Water Analysis

Felicita Dairy
22154 Road 20

Tulare CA 93274
00-0015878 08

E-mail: martyverhoeven@gmail.com
Copy To: lukedejong34@yahoo.com

Lab No.: 23L0911

Sampled By: Luke

Requested By: Marty Verhoeven

Submitted Date: 12/14/23

Reported Date: 12/21/23

Project: 22154 Road 20, Tulare 93274
Crop ID:

		Date Sampled	Time Sampled	EC μmhos/cm	EC mmhos/cm	NO ₃ -N mg/L	TDS mg/L
1	Ditch	12/13/23	15:29	73.2	0.07	0.2	43.0

ND = None Detected

Approved By: _____

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595

A2LA Certification #6440.02

23L0911

WATER WORK REQUEST

Bill To:	Acct No 15878	Cons 08
----------	------------------	------------

Purchase Order No.	Results Needed By
--------------------	-------------------

Client Felicita Dairy
Address 22154 Road 20
City, State, Zip Tulare, CA 93274
Email: lukedejong34@yahoo.com

Copy to: martyverhoeven@gmail.com

Requested by/Cell: Marty Verhoeven/ 559-410-2420

Facility: 22154 Road 20, Tulare 93274

Date sampled 12/13/23

Sampled by Luke

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

DESCRIPTION OF SAMPLES

1.	Ditch	Sampled From
2.		Sampled From
3.		Sampled From
4.		Sampled From
5.		Sampled From
6.		Sampled From
7.		Sampled From
8.		Sampled From
9.		Sampled From
10.		Sampled From

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples _____ No. Bottles _____

Water Type:

<input type="checkbox"/> Ag Water	<input type="checkbox"/> Drinking	<input type="checkbox"/> Wastewater
<input checked="" type="checkbox"/> Supply Water	<input type="checkbox"/> Ground Water	<input type="checkbox"/> Mon. Well
	<input type="checkbox"/> Other	

Analysis and Bottles Required: *(Please Indicate Analysis)*

- ☐ DWW1: (EC, pH, NO₃-N, **NH₄-N Field Test**)
(1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)
- ☒ DCW1: (EC, NO₃-N, TDS)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1 L plastic, unpreserved (white)

☐ Other _____

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/13/23	3:29		12.6 / -1.0

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

IR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	client (48/11/23)			12/13/23 4:04pm
Second	yp	DLI	12/13/23 4:04pm	
Third				
Fourth	gnt	DLI	12/14 at CC	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with simple interest unless have been previously arranged. Terms are net 30 days, or order accounts will be charged a default damage fee of 2% of net monthly (annually \$24 or \$5.00 per month) whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of DeliaVella I Laboratory, Inc. it is not to be submitted to mediation under the Rules and Procedures of Ctr. for Arbitration & Mediation, Inc. (C.A.M.) as a condition to a litigation, file. (cash) If the dispute is not resolved by mediator(s), then the dispute will be submitted to binding arbitration through call under its Rules and Procedures. The parties will equally bear the costs of mediation arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of DeliaVella I Laboratory.

Invoicing Information:
Price List 2023

Invoicing Information: Price List 2023 Sampling Hrs _____ Miles _____ Consulting _____ Amt Paid _____ Rec By _____ Check No _____ Date _____	Shipping \$ _____ In _____ \$ _____ Out _____
--	--

Shipping

Signature _____

Sample received in cooler with ice^b

☐ Yes ☐ No¹ www.citigroup.com 2/2/00