

**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:** Riverview Dairy

Physical address of dairy:

9295 Avenue 88  
Number and StreetPixley  
CityTulare  
County93256  
Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 03/01/2000Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X313-X160-X005-XXXX**B. OPERATORS**

Gorzeman, Randy

Operator name: Gorzeman, RandyTelephone no.: (559) 905-7544

Landline

Cellular

9295 Avenue 88Pixley  
CityCA  
State93256  
Zip Code

Mailing Address Number and Street

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

Gorzeman, Randy

Legal owner name: Gorzeman, RandyTelephone no.: (559) 905-7544

Landline

Cellular

9295 Avenue 88Pixley  
CityCA  
State93256  
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	2,836	351	816	1,052	519	337
Number under roof	0	0	0	0	0	0
Maximum number	2,919	366	821	1,066	536	359
Average number	2,836	351	816	1,052	519	337
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 101,181.76 tons per reporting period

Total nitrogen from manure: 1,257,968.91 lbs per reporting period

After ammonia losses (30% loss applied): 880,578.24 lbs per reporting period

Total phosphorus from manure: 206,571.58 lbs per reporting period

Total potassium from manure: 552,436.43 lbs per reporting period

Total salt from manure: 1,416,043.05 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 107,856,092 gallons

Total nitrogen generated: 234,389.35 lbs

Total phosphorus generated: 41,300.17 lbs

Total potassium generated: 213,050.65 lbs

Total salt generated: 1,161,169.28 lbs

107,856,092 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 107,856,092 gallons generated

**D. FRESH WATER SOURCES**

Source Description	Type
Barn Well North	Ground water
Barn Well South	Ground water
Dom Well East	Ground water
East Irr Ag Well	Ground water
Irr Well #11	Ground water

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

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

Source Description	Type
Middle Irr Ag Well	Ground water
Moorhead Irr Well	Ground water
North Irr Ag Well	Ground water
Pixley ID	Surface water
Pixley Irr Well	Ground water
South Irr. Ag. Well	Ground water
West Irr Ag Well	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**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/31/2023	Corral solids	7,105.00 <i>ton</i>	Dry-weight	8.4		21,600.00	8,100.00	27,300.00		0.00

*No liquid nutrient exports entered.*

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	281,153.38	105,432.52	355,346.63	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	281,153.38	105,432.52	355,346.63	0.00

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

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

## APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	78	78	2	process wastewater	X313-X160-X004-XXXX
10	68	68	2	manure	X293-X140-X026-XXXX X293-X140-X027-XXXX
11	76	76	2	manure	X314-X001-X004-XXXX
12	75	75	2	manure	X314-X001-X004-XXXX
2	76	76	2	process wastewater	X313-X160-X004-XXXX
3	77	77	2	process wastewater	X313-X160-X004-XXXX
4	74	74	2	process wastewater	X313-X160-X004-XXXX
5	72	72	2	process wastewater	X313-X160-X009-XXXX
6	77	77	2	process wastewater	X313-X160-X009-XXXX
7	20	20	2	process wastewater	X313-X160-X005-XXXX
8	75	75	2	manure	X298-X010-X008-XXXX X298-X020-X015-XXXX
9	57	57	1	manure	X298-X010-X009-XXXX
Totals for areas that were used for application	825	825	23		
Totals for areas that were not used for application					
Land application area totals	825	825	23		

## B. CROPS AND HARVESTS

1

Field name: 1

11/10/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 78 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 (%)
05/21/2023	1,790.00 ton	Dry-weight		66.3	10,700.00	2,900.00	13,900.00		7.43

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	22.95	165.50	44.86	215.00	1,149.23

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

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

1

06/19/2023: Corn, silage

Crop: Corn, silage

Acres planted: 78 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/01/2023	2,438.00 ton	Dry-weight		69.1	11,500.00	2,200.00	10,700.00		5.69

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	31.26	222.14	42.50	206.69	1,099.11

10

Field name: 10

11/10/2022: Triticale, soft dough

Crop: Triticale, soft dough

Acres planted: 68 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 (%)
05/16/2023	1,476.00 ton	Dry-weight		65.7	12,600.00	3,000.00	11,500.00		7.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	21.71	187.62	44.67	171.24	1,100.39

06/27/2023: Corn, silage

Crop: Corn, silage

Acres planted: 68 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	1,999.00 ton	Dry-weight		67.3	12,900.00	2,200.00	14,500.00		5.78

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.40	248.01	42.30	278.77	1,111.24

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

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

11

Field name: 11

11/11/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 76 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,581.00 ton	Dry-weight		62.5	13,400.00	3,000.00	10,400.00		6.79

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	20.80	209.07	46.81	162.26	1,059.37

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,229.00 ton	Dry-weight		64.3	10,600.00	2,800.00	8,500.00		5.32

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.33	221.97	58.63	178.00	1,114.05

12

Field name: 12

11/11/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 75 Plant date: 11/11/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,659.00 ton	Dry-weight		63.5	13,100.00	3,000.00	11,700.00		6.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	22.12	211.53	48.44	188.93	1,125.49

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

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

12

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,133.00 ton	Dry-weight		64.7	10,300.00	2,700.00	10,200.00		6.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.44	206.81	54.21	204.80	1,240.86

2

Field name: 2

11/12/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 76 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 (%)
05/22/2023	1,726.00 ton	Dry-weight		65.0	11,200.00	2,700.00	10,000.00		6.57

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	22.71	178.05	42.92	158.97	1,044.46

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,120.00 ton	Dry-weight		66.6	12,700.00	2,300.00	13,100.00		5.15

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	27.89	236.65	42.86	244.10	959.63

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

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

3

Field name: 3

11/12/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 77 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 (%)
05/23/2023	1,681.00 ton	Dry-weight		65.2	11,300.00	2,900.00	10,200.00		7.03

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	21.83	171.70	44.06	154.98	1,068.17

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,269.00 ton	Dry-weight		66.2	11,600.00	2,900.00	15,800.00		6.82

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.47	231.07	57.77	314.74	1,358.55

4

Field name: 4

11/13/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 74 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 (%)
05/14/2023	1,594.00 ton	Dry-weight		65.6	11,200.00	2,500.00	8,000.00		5.88

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	21.54	165.98	37.05	118.56	871.41



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

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

4

06/23/2023: Corn, silage

Crop: Corn, silage

Acres planted: 74 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	2,081.00 ton	Dry-weight		65.5	13,700.00	2,300.00	12,300.00		5.23

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.12	265.83	44.63	238.67	1,014.82

5

Field name: 5

11/14/2022: Triticale, soft dough

Crop: Triticale, soft dough

Acres planted: 72 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,538.00 ton	Dry-weight		66.8	11,400.00	3,000.00	11,900.00		7.21

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	21.36	161.70	42.55	168.79	1,022.65

06/17/2023: Corn, silage

Crop: Corn, silage

Acres planted: 72 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	2,069.00 ton	Dry-weight		65.6	12,200.00	3,000.00	9,100.00		5.23

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.74	241.20	59.31	179.91	1,033.99

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

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

6

Field name: 6

11/13/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 77 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 (%)
05/16/2023	1,661.00 ton	Dry-weight		62.2	11,400.00	3,300.00	10,100.00		6.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	21.57	185.91	53.82	164.71	1,087.74

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	2,229.00 ton	Dry-weight		66.3	13,600.00	2,300.00	14,100.00		5.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.95	265.35	44.88	275.10	1,051.64

7

Field name: 7

11/14/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 20 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	425.00 ton	Dry-weight		62.3	11,900.00	3,000.00	11,600.00		6.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	21.25	190.67	48.07	185.86	1,097.54

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

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

7

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	584.00 ton	Dry-weight		69.1	12,900.00	3,600.00	12,900.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.20	232.79	64.96	232.79	1,118.83

8

Field name: 8

11/16/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 75 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,688.00 ton	Dry-weight		65.1	13,500.00	3,000.00	10,700.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,496.00
Total actual harvest content	22.51	212.08	47.13	168.09	1,712.35

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,224.00 ton	Dry-weight		65.4	10,000.00	2,700.00	14,900.00		6.26

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.65	205.20	55.40	305.75	1,284.56

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

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

9

Field name: 9

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 57 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	1,510.00 <i>ton</i>	Dry-weight		63.2	13,800.00	2,200.00	9,600.00		5.45

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	26.49	269.07	42.89	187.18	1,062.62

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

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

## NUTRIENT BUDGET

## A. LAND APPLICATIONS

1 - 11/10/2022: Triticale, soft dough

Field name: 1

Crop: Triticale, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/11/2022	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
Lagoon	Process wastewater	79.41	15.85	85.24	1,070.92	3,404,700.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	16.36	7,645,400.00 <i>gal</i>
Application event totals		79.41	15.85	85.24	1,087.28	
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	58.02	14.87	69.57	400.97	1,241,000.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	17.35	8,106,400.00 <i>gal</i>
Application event totals		58.02	14.87	69.57	418.31	
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	78.04	15.49	79.19	204.28	2,145,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	11.79	5,508,784.00 <i>gal</i>
Application event totals		78.04	15.49	79.19	216.07	

1 - 06/19/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/19/2023

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

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

1 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Pixley ID	Surface water	0.00	0.00	0.00	23.76	11,101,840.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.76	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	101.43	20.14	102.92	265.51	2,788,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	18.80	8,786,500.00 <i>gal</i>
Application event totals		101.43	20.14	102.92	284.31	
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
Pixley ID	Surface water	0.00	0.00	0.00	25.86	12,085,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.86	
08/02/2023	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	87.84	7.73	38.81	253.39	4,298,450.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	19.06	8,909,650.00 <i>gal</i>
Application event totals		87.84	7.73	38.81	272.46	
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
Lagoon	Process wastewater	86.65	7.62	38.29	249.98	4,240,500.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.27	10,408,400.00 <i>gal</i>
Application event totals		86.65	7.62	38.29	272.25	

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

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

**1 - 06/19/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/26/2023	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
	Pixley ID		Surface water	0.00	0.00	0.00	25.84	12,075,400.00 <i>gal</i>
	Application event totals			0.00	0.00	0.00	25.84	
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
	Pixley ID		Surface water	0.00	0.00	0.00	22.55	10,540,810.00 <i>gal</i>
	Application event totals			0.00	0.00	0.00	22.55	

**10 - 11/10/2022: Triticale, soft dough**

Field name: 10

Crop: Triticale, soft dough

Plant date: 11/10/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
10/26/2022	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		
Pixley ID		Surface water	0.00	0.00	0.00	21.87	8,908,700.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	21.87			
10/24/2022	Broadcast/incorporate		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	249.48	70.22	293.83	0.00	340.00 <i>ton</i>		
Application event totals			249.48	70.22	293.83	0.00			
01/12/2023	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		
Pixley ID		Surface water	0.00	0.00	0.00	19.89	8,105,470.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	19.89			

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

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

10 - 11/10/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Pixley ID	Surface water	0.00	0.00	0.00	19.16	7,806,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.16	

10 - 06/27/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/27/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
06/08/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Pixley ID			Surface water	0.00	0.00	0.00	25.29	10,304,400.00 <i>gal</i>	
Application event totals				0.00	0.00	0.00	25.29		
06/05/2023	Broadcast/incorporate		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	252.32	17.60	19.07	0.00	612.00 <i>ton</i>	
Application event totals				252.32	17.60	19.07	0.00		
07/17/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Pixley ID			Surface water	0.00	0.00	0.00	24.52	9,989,810.00 <i>gal</i>	
Application event totals				0.00	0.00	0.00	24.52		
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	
Pixley ID			Surface water	0.00	0.00	0.00	23.57	9,601,700.00 <i>gal</i>	
Application event totals				0.00	0.00	0.00	23.57		



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

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

## 10 - 06/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Pixley ID	Surface water	0.00	0.00	0.00	23.97	9,767,840.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.97	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.36	9,517,730.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.36	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.72	9,664,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.72	
09/17/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	22.59	9,204,710.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.59	

## 11 - 11/11/2022: Triticale, soft dough

Field name: 11

Crop: Triticale, soft dough

Plant date: 11/11/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/22/2022	Broadcast/incorporate	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	249.48	70.22	293.83	0.00	380.00 <i>ton</i>
Application event totals		249.48	70.22	293.83	0.00	

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

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

## 11 - 11/11/2022: Triticale, soft dough

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
10/24/2022	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
Pixley ID		Surface water	0.00	0.00	0.00	26.08	11,876,520.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	26.08	
01/23/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID		Surface water	0.00	0.00	0.00	23.51	10,705,400.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	23.51	

## 11 - 06/19/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/01/2023	Broadcast/incorporate	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	280.36	19.56	21.19	0.00	760.00 <i>ton</i>
Application event totals		280.36	19.56	21.19	0.00	
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
Pixley ID	Surface water	0.00	0.00	0.00	25.27	11,504,840.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.27	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.13	10,987,870.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.13	

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

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

**11 - 06/19/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	
Pixley ID		Surface water	0.00	0.00	0.00	23.57	10,734,510.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.57		
08/02/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	23.33	10,624,020.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.33		
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	
Pixley ID		Surface water	0.00	0.00	0.00	23.82	10,846,500.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.82		
08/26/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	24.21	11,026,520.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	24.21		
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	
Pixley ID		Surface water	0.00	0.00	0.00	25.23	11,486,530.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	25.23		

**12 - 11/11/2022: Triticale, soft dough**

Field name: 12

Crop: Triticale, soft dough

Plant date: 11/11/2022

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

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

**12 - 11/11/2022: Triticale, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/22/2022	Broadcast/incorporate	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	249.48	70.22	293.83	0.00	375.00 <i>ton</i>
Application event totals		249.48	70.22	293.83	0.00	
10/24/2022	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
Pixley ID	Surface water	0.00	0.00	0.00	24.47	10,997,740.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.47	
01/29/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	25.30	11,367,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.30	

**12 - 06/19/2023: Corn, silage**

Field name: 12

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
06/01/2023	Broadcast/incorporate		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	261.67	18.26	19.78	0.00	700.00 <i>ton</i>
Application event totals			261.67	18.26	19.78	0.00	
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
Pixley ID		Surface water	0.00	0.00	0.00	24.23	10,889,630.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	24.23	

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

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

**12 - 06/19/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Pixley ID	Surface water	0.00	0.00	0.00	24.32	10,930,450.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.32	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.96	10,765,320.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.96	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.71	10,654,320.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.71	
08/15/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	23.26	10,453,200.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.26	
08/28/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	23.89	10,736,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.89	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	23.34	10,486,520.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.34	

**2 - 11/12/2022: Triticale, soft dough**

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

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

2 - 11/12/2022: Triticale, soft dough

Field name: 2

Crop: Triticale, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.16	15.60	83.90	1,054.14	3,265,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	17.49	7,965,400.00 <i>gal</i>
Application event totals		78.16	15.60	83.90	1,071.63	

01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.20	19.79	92.57	533.53	1,608,940.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	18.68	8,505,400.00 <i>gal</i>
Application event totals		77.20	19.79	92.57	552.21	

04/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	67.51	13.40	68.51	176.72	1,808,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	13.70	6,236,500.00 <i>gal</i>
Application event totals		67.51	13.40	68.51	190.42	

2 - 06/22/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Lagoon	Process wastewater	106.27	21.10	107.83	278.17	2,846,500.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.86	10,408,400.00 <i>gal</i>
Application event totals		106.27	21.10	107.83	301.03	

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

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

2 - 06/22/2023: 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
Pixley ID	Surface water	0.00	0.00	0.00	26.24	11,946,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	26.24	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.44	27.38	139.96	361.06	3,694,640.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.93	10,897,400.00 <i>gal</i>
Application event totals		88.44	27.38	139.96	384.99	
08/04/2023	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	77.53	6.82	94.99	223.67	3,697,000.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	20.66	9,406,710.00 <i>gal</i>
Application event totals		77.53	6.82	94.99	244.33	
08/16/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	23.71	10,797,640.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.71	
08/28/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	21.92	9,979,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.92	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	23.40	10,654,320.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.40	

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

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

3 - 11/12/2022: Triticale, soft dough

Field name: 3

Crop: Triticale, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/23/2022	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
Lagoon	Process wastewater	67.25	13.42	72.19	906.94	2,846,400.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	19.52	9,006,470.00 gal
Application event totals		67.25	13.42	72.19	926.46	
01/09/2023	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
Lagoon	Process wastewater	77.10	19.76	92.45	532.84	1,628,000.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	15.41	7,108,900.00 gal
Application event totals		77.10	19.76	92.45	548.25	
04/02/2023	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	73.86	14.66	74.94	193.33	2,004,400.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	13.45	6,207,100.00 gal
Application event totals		73.86	14.66	74.94	206.79	

3 - 06/22/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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
Lagoon		Process wastewater	106.11	21.07	107.67	277.76	2,879,700.00 <i>gal</i>
Pixley ID		Surface water	0.00	0.00	0.00	22.43	10,348,710.00 <i>gal</i>
Application event totals			106.11	21.07	107.67	300.19	



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

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

**3 - 06/22/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	
Pixley ID		Surface water	0.00	0.00	0.00	24.29	11,208,400.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	24.29		
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	
Lagoon		Process wastewater	89.18	7.84	39.41	257.28	4,308,410.00 <i>gal</i>	
Pixley ID		Surface water	0.00	0.00	0.00	22.47	10,367,002.00 <i>gal</i>	
Application event totals			89.18	7.84	39.41	279.75		
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	
Pixley ID		Surface water	0.00	0.00	0.00	23.08	10,649,810.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.08		
08/16/2023	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	84.83	7.46	37.48	244.71	4,097,970.00 <i>gal</i>	
Pixley ID		Surface water	0.00	0.00	0.00	21.90	10,104,700.00 <i>gal</i>	
Application event totals			84.83	7.46	37.48	266.61		
08/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Pixley ID		Surface water	0.00	0.00	0.00	23.08	10,648,400.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.08		
09/12/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	22.44	10,354,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	22.44		

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

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

## 4 - 11/13/2022: Triticale, soft dough

Field name: 4

Crop: Triticale, soft dough

Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	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
Lagoon	Process wastewater	56.48	11.27	60.62	761.69	2,297,400.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	20.09	8,906,540.00 gal
Application event totals		56.48	11.27	60.62	781.78	

01/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	69.47	17.80	83.30	480.10	1,409,700.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	16.36	7,254,000.00 gal
Application event totals		69.47	17.80	83.30	496.46	

04/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.85	16.05	82.04	211.64	2,108,700.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	13.77	6,105,400.00 gal
Application event totals		80.85	16.05	82.04	225.41	

## 4 - 06/23/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/23/2023

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
Lagoon	Process wastewater	108.37	21.52	109.97	283.68	2,826,510.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	22.85	10,129,400.00 gal
Application event totals		108.37	21.52	109.97	306.53	

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

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

**4 - 06/23/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/13/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	24.77	10,984,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	24.77		
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	
Lagoon		Process wastewater	86.33	7.59	38.15	249.05	4,008,100.00 <i>gal</i>	
Pixley ID		Surface water	0.00	0.00	0.00	22.50	9,976,540.00 <i>gal</i>	
Application event totals			86.33	7.59	38.15	271.55		
08/06/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	25.50	11,305,780.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	25.50		
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	
Lagoon		Process wastewater	82.85	7.29	36.61	239.00	3,846,400.00 <i>gal</i>	
Pixley ID		Surface water	0.00	0.00	0.00	24.16	10,713,620.00 <i>gal</i>	
Application event totals			82.85	7.29	36.61	263.17		
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	
Pixley ID		Surface water	0.00	0.00	0.00	23.89	10,594,210.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.89		
09/17/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	23.18	10,277,610.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.18		

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

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

5 - 11/14/2022: Triticale, soft dough

Field name: 5

Crop: Triticale, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	62.57	12.42	63.49	163.78	1,587,700.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	14.16	6,108,700.00 gal
Application event totals		62.57	12.42	63.49	177.94	

01/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.27	11.83	63.62	799.34	2,345,800.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	19.35	8,345,400.00 gal
Application event totals		59.27	11.83	63.62	818.69	

04/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.01	19.99	93.54	539.11	1,540,200.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	16.38	7,067,802.00 gal
Application event totals		78.01	19.99	93.54	555.49	

5 - 06/17/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	109.71	21.78	111.32	287.18	2,784,000.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	24.96	10,768,200.00 gal
Application event totals		109.71	21.78	111.32	312.14	

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

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

**5 - 06/17/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	25.47	10,988,710.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.47	
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
Lagoon	Process wastewater	86.38	7.60	38.17	249.18	3,901,870.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	25.45	10,977,100.00 <i>gal</i>
Application event totals		86.38	7.60	38.17	274.63	
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	90.48	7.96	39.98	261.01	4,087,100.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	25.21	10,877,000.00 <i>gal</i>
Application event totals		90.48	7.96	39.98	286.23	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.13	9,977,910.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.13	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.33	10,064,780.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.33	
09/12/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	21.64	9,335,410.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.64	

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

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

6 - 11/13/2022: Triticale, soft dough

Field name: 6

Crop: Triticale, soft dough

Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/23/2022	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
Lagoon	Process wastewater	82.95	16.55	89.04	1,118.65	3,510,840.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	18.45	8,510,800.00 gal
Application event totals		82.95	16.55	89.04	1,137.10	
01/11/2023	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
Lagoon	Process wastewater	84.63	21.69	101.48	584.88	1,787,002.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	17.70	8,167,800.00 gal
Application event totals		84.63	21.69	101.48	602.59	
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	62.59	12.43	63.51	163.85	1,698,710.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	13.01	6,004,400.00 gal
Application event totals		62.59	12.43	63.51	176.86	

6 - 06/22/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	110.09	21.86	111.71	288.18	2,987,700.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.07	10,184,002.00 <i>gal</i>
Application event totals		110.09	21.86	111.71	310.25	

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

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

6 - 06/22/2023: 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
Pixley ID	Surface water	0.00	0.00	0.00	24.73	11,407,784.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.73	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.46	11,284,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.46	
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
Lagoon	Process wastewater	88.95	7.82	39.31	256.60	4,297,100.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.08	10,187,620.00 <i>gal</i>
Application event totals		88.95	7.82	39.31	278.69	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.40	7.07	35.53	231.94	3,884,100.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.58	10,876,510.00 <i>gal</i>
Application event totals		80.40	7.07	35.53	255.52	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.38	10,786,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.38	
09/13/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	23.38	10,787,230.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.38	

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

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

7 - 11/14/2022: Triticale, soft dough

Field name: 7

Crop: Triticale, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	81.76	16.32	87.77	1,102.69	898,900.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	18.27	2,189,870.00 gal
Application event totals		81.76	16.32	87.77	1,120.97	

01/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.38	20.60	96.38	555.50	440,840.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	16.82	2,015,480.00 gal
Application event totals		80.38	20.60	96.38	572.32	

04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.62	14.02	71.66	184.86	497,800.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	12.42	1,487,900.00 gal
Application event totals		70.62	14.02	71.66	197.28	

7 - 06/21/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	97.57	19.37	99.01	255.41	687,770.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	25.11	3,008,760.00 gal
Application event totals		97.57	19.37	99.01	280.51	



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

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

**7 - 06/21/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Pixley ID	Surface water	0.00	0.00	0.00	28.36	3,397,870.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	28.36	
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
Lagoon	Process wastewater	87.93	17.46	89.23	230.18	619,840.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.10	2,768,400.00 <i>gal</i>
Application event totals		87.93	17.46	89.23	253.28	
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
Pixley ID	Surface water	0.00	0.00	0.00	26.77	3,208,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	26.77	
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
Lagoon	Process wastewater	79.52	6.99	35.14	229.40	997,800.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.43	2,687,600.00 <i>gal</i>
Application event totals		79.52	6.99	35.14	251.83	
08/26/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	21.78	2,610,540.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.78	
09/09/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	22.16	2,656,040.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.16	

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

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

8 - 11/16/2022: Triticale, soft dough

Field name: 8

Crop: Triticale, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
10/29/2022	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
Pixley ID		Surface water	0.00	0.00	0.00	26.48	11,897,650.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	26.48	
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	212.74	67.93	278.89	0.00	400.00 <i>ton</i>
Application event totals			212.74	67.93	278.89	0.00	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID		Surface water	0.00	0.00	0.00	25.01	11,239,970.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	25.01	

8 - 06/17/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/23/2023	Broadcast/incorporate	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	252.32	17.60	19.07	0.00	675.00 <i>ton</i>
Application event totals		252.32	17.60	19.07	0.00	

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

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

8 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/28/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	24.71	11,105,870.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.71	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.21	10,879,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.21	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	25.03	11,248,100.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.03	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.55	11,031,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.55	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.52	11,018,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.52	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.43	10,979,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.43	

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

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

## 8 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/03/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	24.20	10,874,160.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.20	

## 9 - 06/28/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/29/2023	Broadcast/incorporate	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	275.44	19.22	20.82	0.00	560.00 <i>ton</i>
Application event totals		275.44	19.22	20.82	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
Pixley ID	Surface water	0.00	0.00	0.00	26.08	8,906,310.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	26.08	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.62	8,407,100.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.62	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.59	8,397,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.59	

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

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

9 - 06/28/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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
Pixley ID			Surface water	0.00	0.00	0.00	22.57	7,708,710.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	22.57	
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
Pixley ID			Surface water	0.00	0.00	0.00	23.46	8,010,610.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	23.46	
09/03/2023	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
Pixley ID			Surface water	0.00	0.00	0.00	24.04	8,210,680.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	24.04	
09/18/2023	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
Pixley ID			Surface water	0.00	0.00	0.00	25.20	8,605,400.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	25.20	

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

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

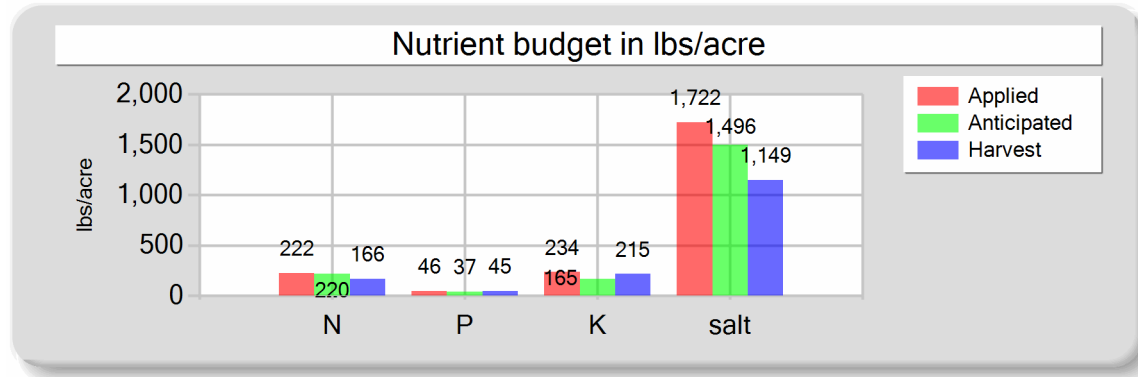
B. NUTRIENT BUDGET

1 - 11/10/2022: Triticale, soft dough

Field name: 1

Crop: Triticale, soft dough

Plant date: 11/10/2022



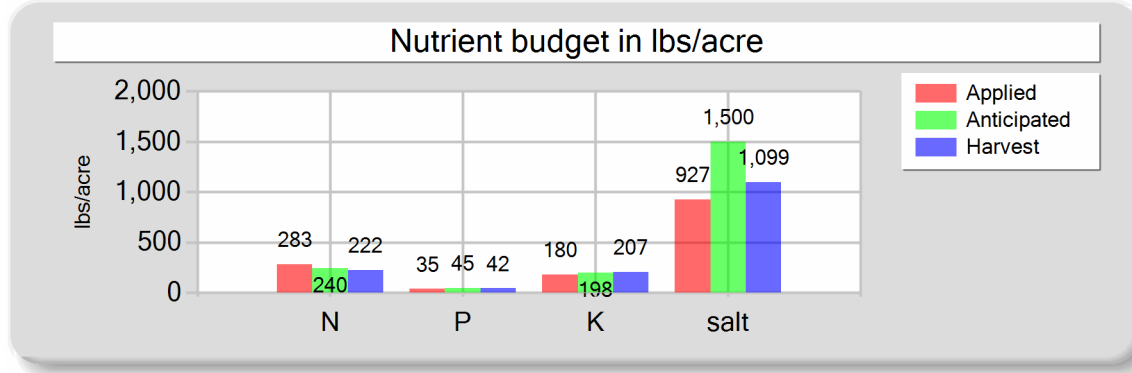
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,260,584.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	782.96 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.04 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	215.47	46.21	234.00	1,676.17	Process wastewater applied
Fresh water	0.00	0.00	0.00	45.49	6,791,100.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	250.09 acre-inches
Total nutrients applied	222.47	46.21	234.00	1,721.67	3.21 inches/acre
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00	
Actual crop nutrient removal	165.50	44.86	215.00	1,149.23	Total harvests for the crop
Nutrient balance	56.97	1.35	19.00	572.43	1 harvests
Applied to removed ratio	1.34	1.03	1.09	1.50	

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

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

1 - 06/19/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/19/2023



	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	73,908,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,721.78 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	34.89 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	275.92	35.48	180.03	768.88	Process wastewater applied
Fresh water	0.00	0.00	0.00	158.14	11,327,350.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	417.15 <i>acre-inches</i>
Total nutrients applied	282.92	35.48	180.03	927.02	5.35 <i>inches/acre</i>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	222.14	42.50	206.69	1,099.11	Total harvests for the crop
Nutrient balance	60.78	-7.01	-26.66	-172.08	1 <i>harvests</i>
Applied to removed ratio	1.27	0.84	0.87	0.84	

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

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

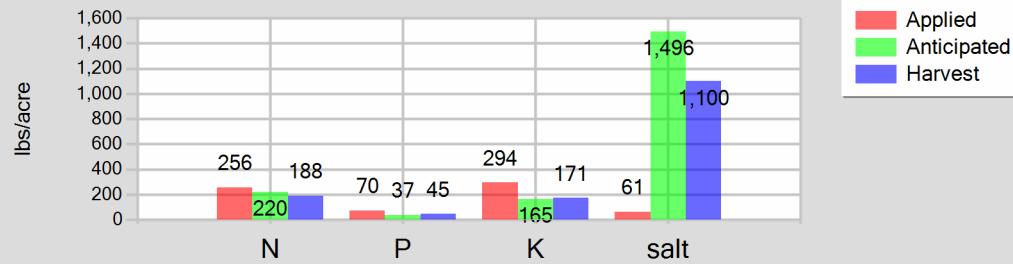
10 - 11/10/2022: Triticale, soft dough

Field name: 10

Crop: Triticale, soft dough

Plant date: 11/10/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	249.48	70.22	293.83	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	60.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.48	70.22	293.83	60.92
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	187.62	44.67	171.24	1,100.39
Nutrient balance	68.86	25.55	122.59	-1,039.47
Applied to removed ratio	1.37	1.57	1.72	0.06

Fresh water applied
24,820,570.00 gallons
914.06 acre-inches
13.44 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 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.

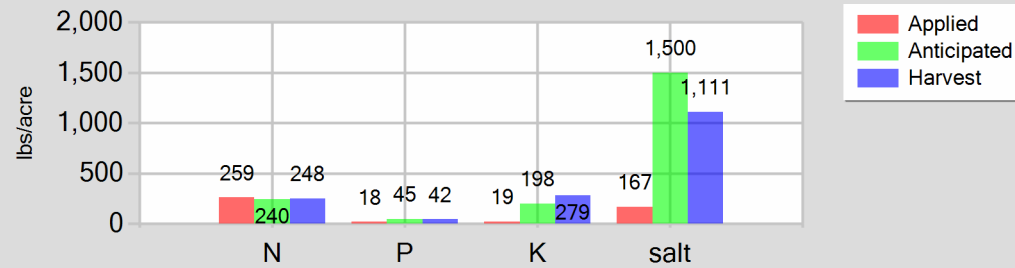
10 - 06/27/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/27/2023

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	252.32	17.60	19.07	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	167.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.32	17.60	19.07	167.02
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	248.01	42.30	278.77	1,111.24
Nutrient balance	11.31	-24.69	-259.70	-944.22
Applied to removed ratio	1.05	0.42	0.07	0.15

Fresh water applied
68,050,690.00 gallons
2,506.08 acre-inches
36.85 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

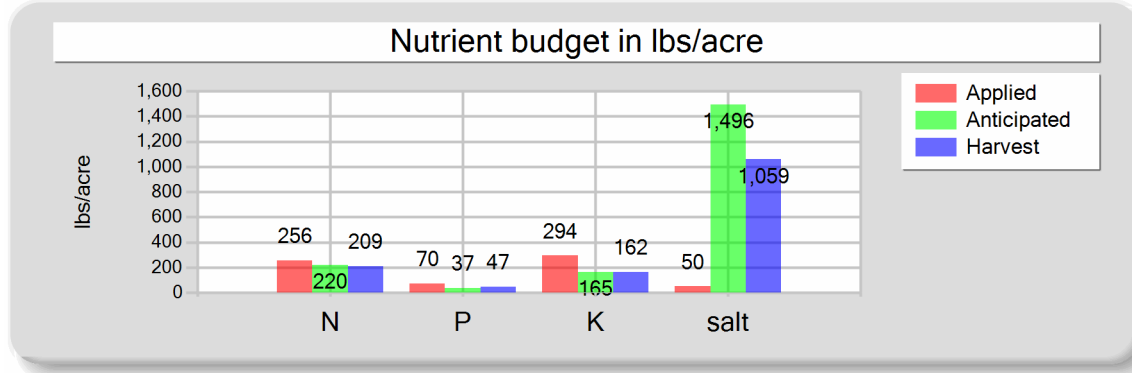
Reporting period 01/01/2023 to 12/31/2023.

11 - 11/11/2022: Triticale, soft dough

Field name: 11

Crop: Triticale, soft dough

Plant date: 11/11/2022



	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	22,581,920.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	831.62 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.94 <i>inches/acre</i>
Dry manure	249.48	70.22	293.83	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	49.59	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	256.48	70.22	293.83	49.59	
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00	
Actual crop nutrient removal	209.07	46.81	162.26	1,059.37	
Nutrient balance	47.41	23.42	131.57	-1,009.78	
Applied to removed ratio	1.23	1.50	1.81	0.05	
					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.

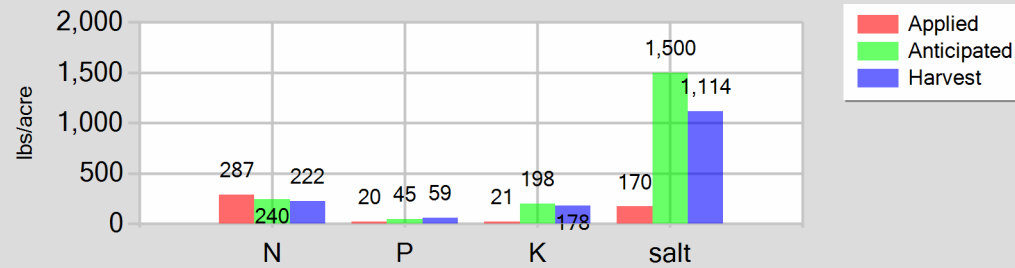
11 - 06/19/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/19/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	280.36	19.56	21.19	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	169.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.36	19.56	21.19	169.56
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	221.97	58.63	178.00	1,114.05
Nutrient balance	65.39	-39.07	-156.81	-944.50
Applied to removed ratio	1.29	0.33	0.12	0.15

Fresh water applied
77,210,790.00 gallons
2,843.41 acre-inches
37.41 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

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

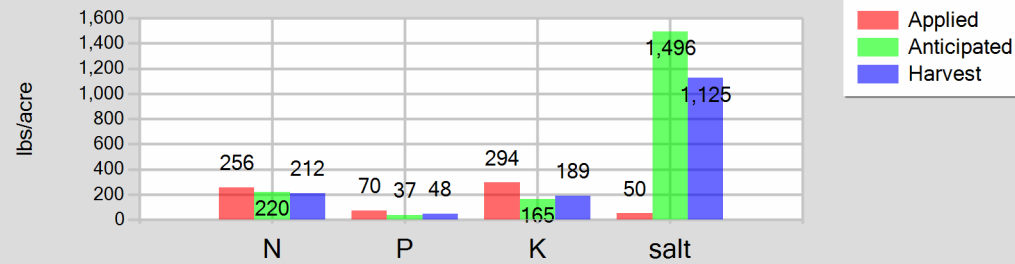
12 - 11/11/2022: Triticale, soft dough

Field name: 12

Crop: Triticale, soft dough

Plant date: 11/11/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	249.48	70.22	293.83	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	49.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.48	70.22	293.83	49.77
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	211.53	48.44	188.93	1,125.49
Nutrient balance	44.95	21.78	104.91	-1,075.72
Applied to removed ratio	1.21	1.45	1.56	0.04

Fresh water applied
22,365,540.00 gallons
823.65 acre-inches
10.98 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

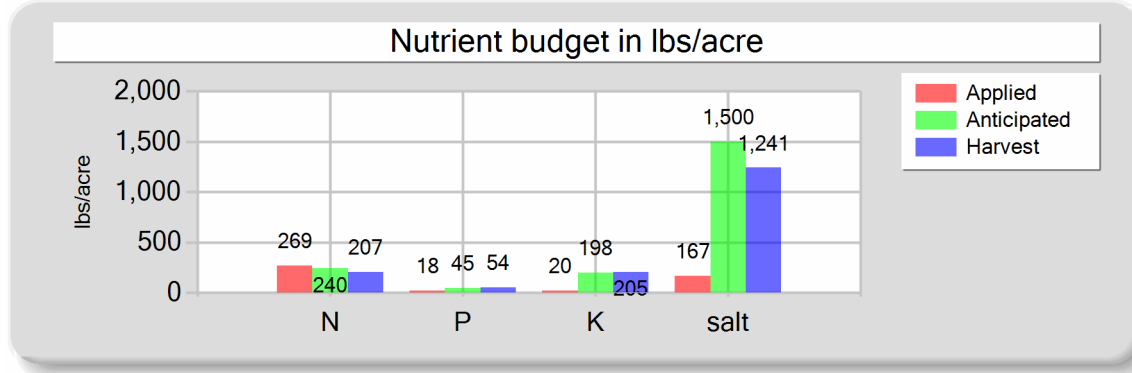
Reporting period 01/01/2023 to 12/31/2023.

12 - 06/19/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 06/19/2023



	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	74,915,940.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,758.90 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	36.79 <i>inches/acre</i>
Dry manure	261.67	18.26	19.78	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	166.71	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	268.67	18.26	19.78	166.71	
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	206.81	54.21	204.80	1,240.86	
Nutrient balance	61.86	-35.96	-185.02	-1,074.15	
Applied to removed ratio	1.30	0.34	0.10	0.13	
					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

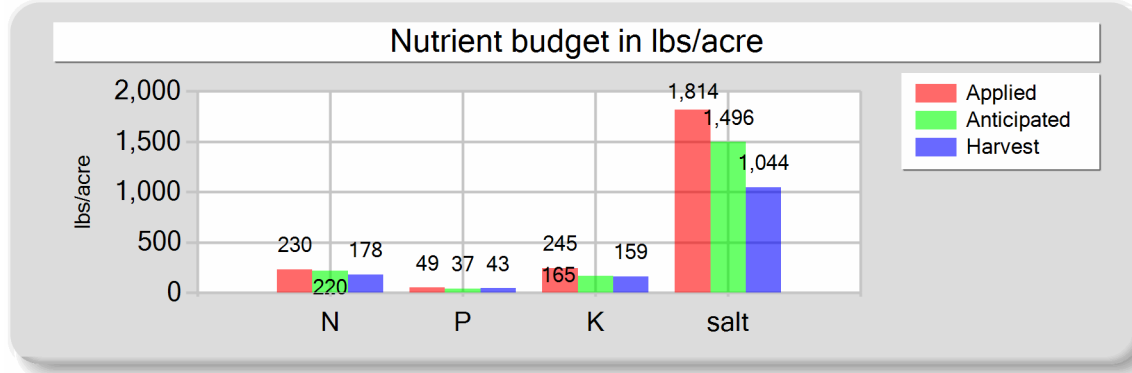
Reporting period 01/01/2023 to 12/31/2023.

2 - 11/12/2022: Triticale, soft dough

Field name: 2

Crop: Triticale, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	222.88	48.79	244.98	1,764.39
Fresh water	0.00	0.00	0.00	49.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	229.88	48.79	244.98	1,814.26
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	178.05	42.92	158.97	1,044.46
Nutrient balance	51.83	5.86	86.01	769.80
Applied to removed ratio	1.29	1.14	1.54	1.74

Fresh water applied
22,707,300.00 gallons
836.23 acre-inches
11.00 inches/acre

Process wastewater applied
6,682,740.00 gallons
246.10 acre-inches
3.24 inches/acre

Total harvests for the crop
1 harvests

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

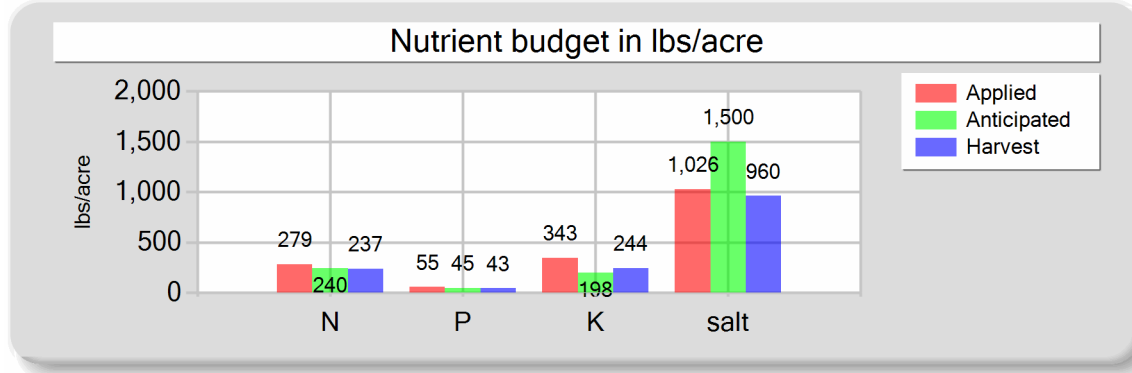
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/22/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/22/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	272.24	55.30	342.78	862.90
Fresh water	0.00	0.00	0.00	162.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.24	55.30	342.78	1,025.61
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	236.65	42.86	244.10	959.63
Nutrient balance	42.59	12.44	98.68	65.97
Applied to removed ratio	1.18	1.29	1.40	1.07

Fresh water applied
74,090,670.00 <i>gallons</i>
2,728.51 <i>acre-inches</i>
35.90 <i>inches/acre</i>

Process wastewater applied
10,238,140.00 <i>gallons</i>
377.04 <i>acre-inches</i>
4.96 <i>inches/acre</i>

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

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

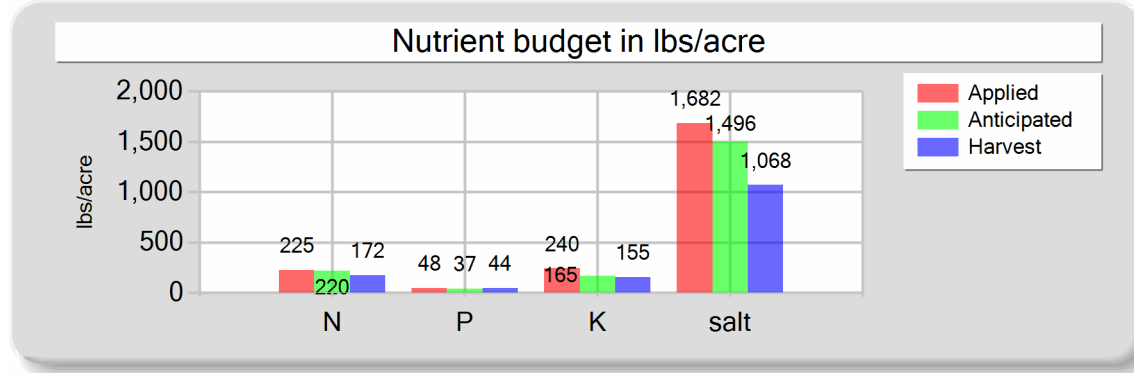
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/12/2022: Triticale, soft dough

Field name: 3

Crop: Triticale, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	218.21	47.84	239.58	1,633.12
Fresh water	0.00	0.00	0.00	48.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	225.21	47.84	239.58	1,681.50
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	171.70	44.06	154.98	1,068.17
Nutrient balance	53.51	3.78	84.60	613.33
Applied to removed ratio	1.31	1.09	1.55	1.57

Fresh water applied
22,322,470.00 gallons
822.06 acre-inches
10.68 inches/acre

Process wastewater applied
6,478,800.00 gallons
238.59 acre-inches
3.10 inches/acre

Total harvests for the crop
1 harvests



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

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

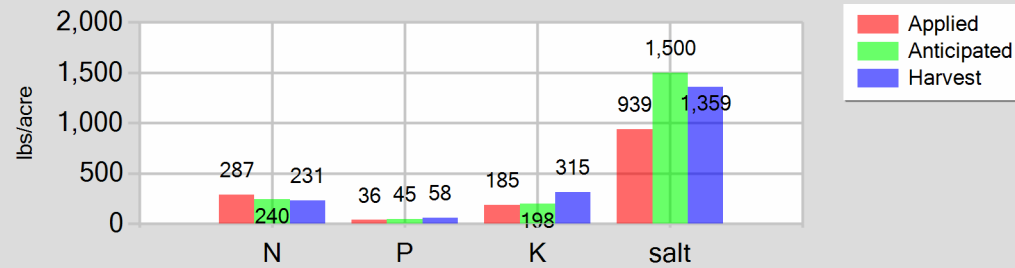
3 - 06/22/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/22/2023

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	280.12	36.37	184.56	779.75
Fresh water	0.00	0.00	0.00	159.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.12	36.37	184.56	939.46
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	231.07	57.77	314.74	1,358.55
Nutrient balance	56.05	-21.40	-130.17	-419.09
Applied to removed ratio	1.24	0.63	0.59	0.69

Fresh water applied
73,681,022.00 gallons
2,713.42 acre-inches
35.24 inches/acre
Process wastewater applied
11,286,080.00 gallons
415.63 acre-inches
5.40 inches/acre
Total harvests for the crop
1 harvests

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

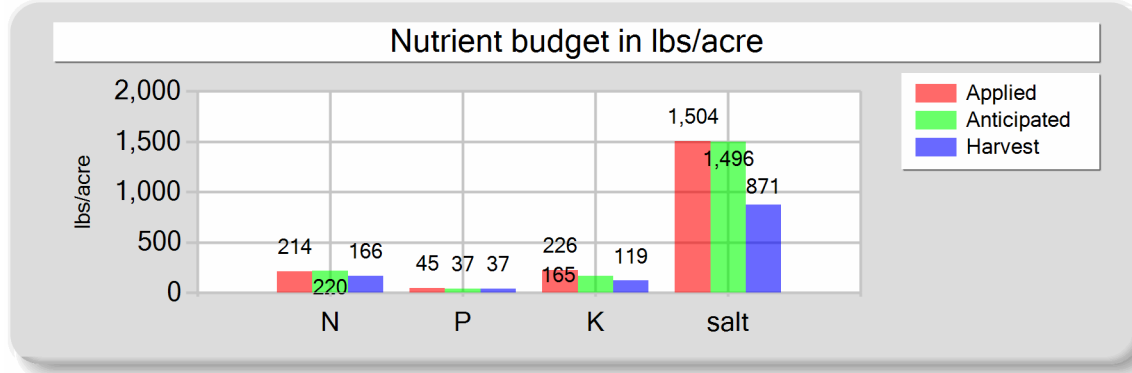
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/13/2022: Triticale, soft dough

Field name: 4

Crop: Triticale, soft dough

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	0.00	0.00	0.00	0.00
Process wastewater	206.80	45.13	225.97	1,453.43
Fresh water	0.00	0.00	0.00	50.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	213.80	45.13	225.97	1,503.65
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	165.98	37.05	118.56	871.41
Nutrient balance	47.82	8.08	107.41	632.24
Applied to removed ratio	1.29	1.22	1.91	1.73

Fresh water applied
22,265,940.00 gallons
819.98 acre-inches
11.08 inches/acre

Process wastewater applied
5,815,800.00 gallons
214.18 acre-inches
2.89 inches/acre

Total harvests for the crop
1 harvests

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

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

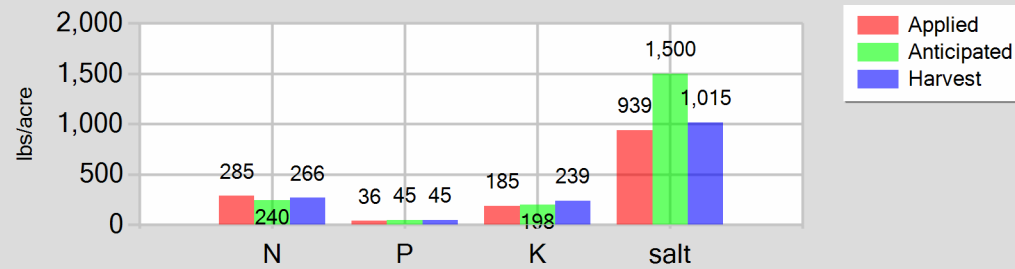
4 - 06/23/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/23/2023

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	277.55	36.40	184.73	771.73
Fresh water	0.00	0.00	0.00	166.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.55	36.40	184.73	938.59
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	265.83	44.63	238.67	1,014.82
Nutrient balance	18.72	-8.23	-53.94	-76.23
Applied to removed ratio	1.07	0.82	0.77	0.92

Fresh water applied
73,981,160.00 gallons
2,724.47 acre-inches
36.82 inches/acre

Process wastewater applied
10,681,010.00 gallons
393.35 acre-inches
5.32 inches/acre

Total harvests for the crop
1 harvests

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

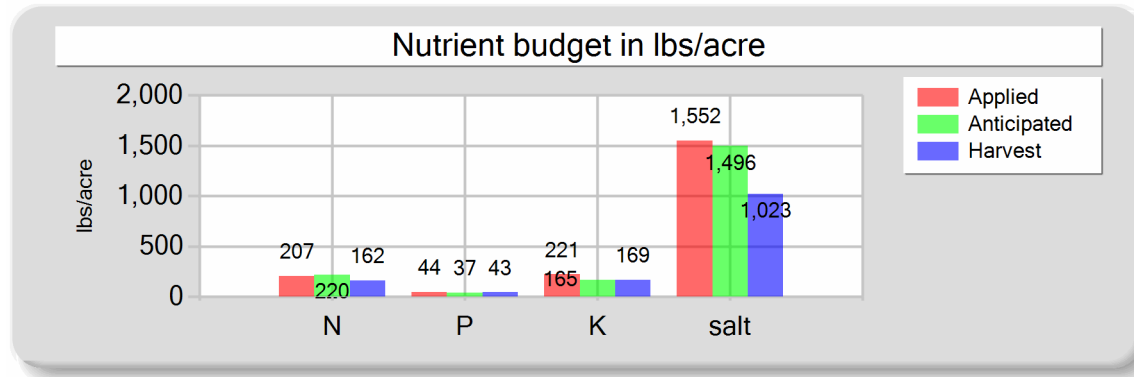
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/14/2022: Triticale, soft dough

Field name: 5

Crop: Triticale, soft dough

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	199.85	44.24	220.65	1,502.23
Fresh water	0.00	0.00	0.00	49.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	206.85	44.24	220.65	1,552.12
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	161.70	42.55	168.79	1,022.65
Nutrient balance	45.15	1.69	51.86	529.47
Applied to removed ratio	1.28	1.04	1.31	1.52

Fresh water applied
21,521,902.00 <i>gallons</i>
792.58 <i>acre-inches</i>
11.01 <i>inches/acre</i>

Process wastewater applied
5,473,700.00 <i>gallons</i>
201.58 <i>acre-inches</i>
2.80 <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.

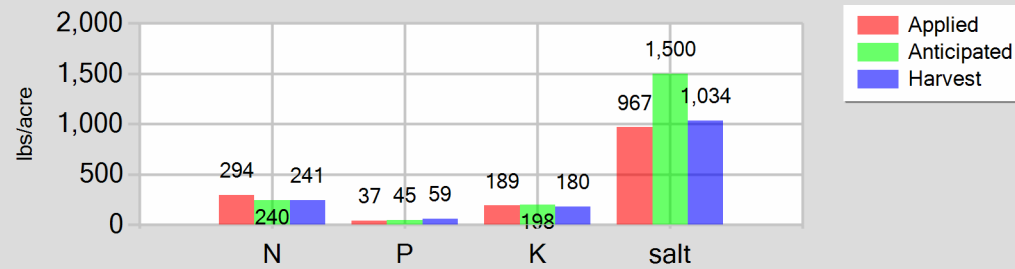
5 - 06/17/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/17/2023

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	286.56	37.34	189.47	797.37
Fresh water	0.00	0.00	0.00	169.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.56	37.34	189.47	966.57
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	241.20	59.31	179.91	1,033.99
Nutrient balance	52.36	-21.98	9.56	-67.43
Applied to removed ratio	1.22	0.63	1.05	0.93

Fresh water applied
72,989,110.00 gallons
2,687.94 acre-inches
37.33 inches/acre
Process wastewater applied
10,772,970.00 gallons
396.73 acre-inches
5.51 inches/acre
Total harvests for the crop
1 harvests

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

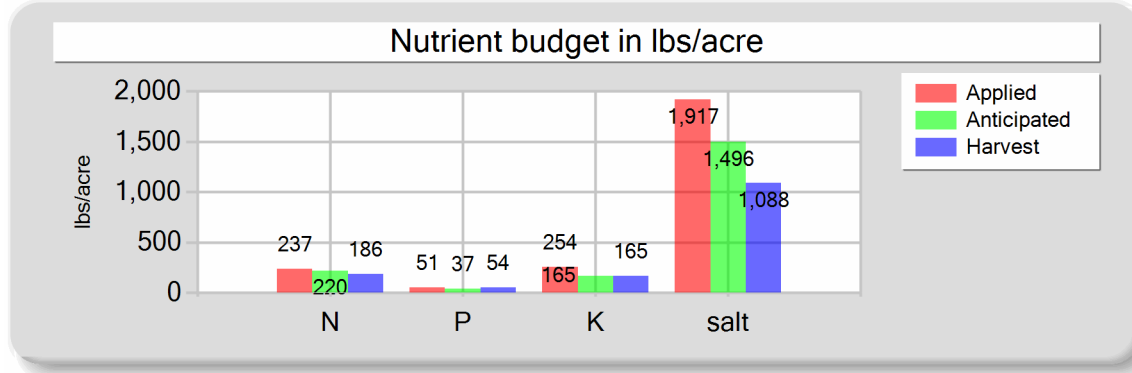
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/13/2022: Triticale, soft dough

Field name: 6

Crop: Triticale, soft dough

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	0.00	0.00	0.00	0.00
Process wastewater	230.18	50.67	254.03	1,867.38
Fresh water	0.00	0.00	0.00	49.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	237.18	50.67	254.03	1,916.55
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	185.91	53.82	164.71	1,087.74
Nutrient balance	51.26	-3.15	89.32	828.80
Applied to removed ratio	1.28	0.94	1.54	1.76

Fresh water applied
22,683,000.00 gallons
835.34 acre-inches
10.85 inches/acre

Process wastewater applied
6,996,552.00 gallons
257.66 acre-inches
3.35 inches/acre

Total harvests for the crop
1 harvests

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

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

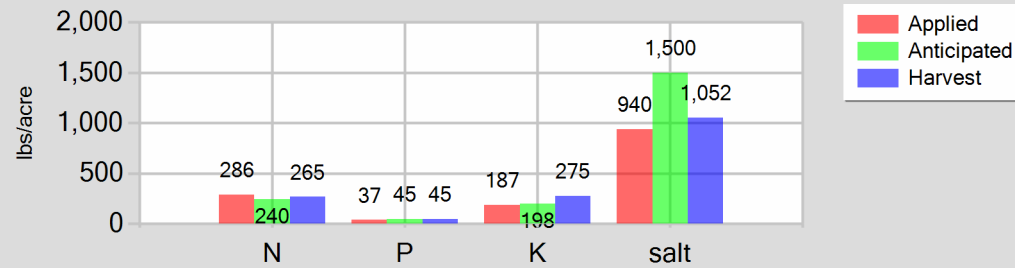
6 - 06/22/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/22/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	279.44	36.75	186.54	776.72
Fresh water	0.00	0.00	0.00	163.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.44	36.75	186.54	940.40
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	265.35	44.88	275.10	1,051.64
Nutrient balance	21.09	-8.12	-88.56	-111.24
Applied to removed ratio	1.08	0.82	0.68	0.89

Fresh water applied
75,513,546.00 gallons
2,780.91 acre-inches
36.12 inches/acre
Process wastewater applied
11,168,900.00 gallons
411.31 acre-inches
5.34 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.

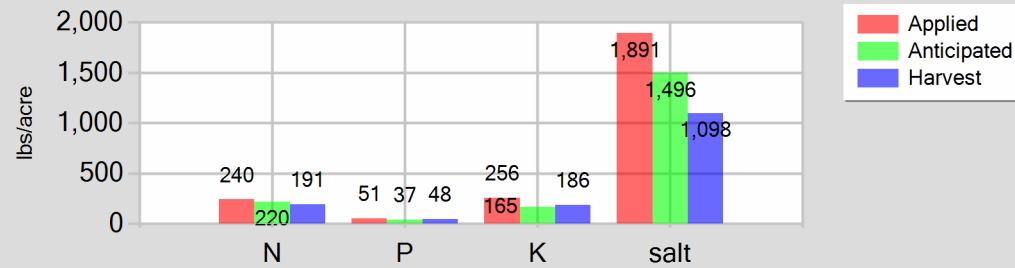
7 - 11/14/2022: Triticale, soft dough

Field name: 7

Crop: Triticale, soft dough

Plant date: 11/14/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	232.77	50.94	255.81	1,843.05
Fresh water	0.00	0.00	0.00	47.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.77	50.94	255.81	1,890.56
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	190.67	48.07	185.86	1,097.54
Nutrient balance	49.10	2.87	69.95	793.02
Applied to removed ratio	1.26	1.06	1.38	1.72

Fresh water applied
5,693,250.00 gallons
209.66 acre-inches
10.48 inches/acre

Process wastewater applied
1,837,540.00 gallons
67.67 acre-inches
3.38 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.

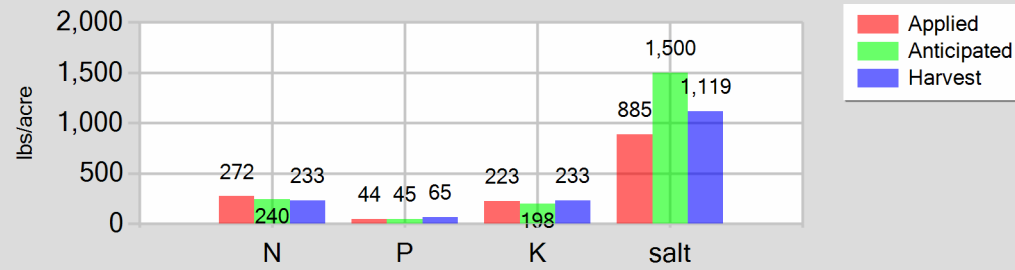
7 - 06/21/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/21/2023

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	265.02	43.82	223.37	714.98
Fresh water	0.00	0.00	0.00	169.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.02	43.82	223.37	884.70
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	232.79	64.96	232.79	1,118.83
Nutrient balance	39.24	-21.14	-9.42	-234.13
Applied to removed ratio	1.17	0.67	0.96	0.79

Fresh water applied
20,337,610.00 gallons
748.97 acre-inches
37.45 inches/acre
Process wastewater applied
2,305,410.00 gallons
84.90 acre-inches
4.25 inches/acre
Total harvests for the crop
1 harvests

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

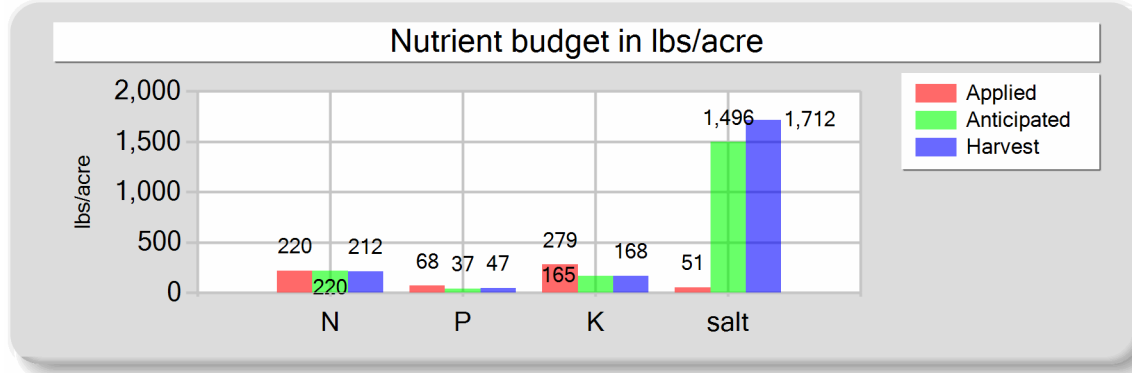
Reporting period 01/01/2023 to 12/31/2023.

8 - 11/16/2022: Triticale, soft dough

Field name: 8

Crop: Triticale, soft dough

Plant date: 11/16/2022



	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	212.74	67.93	278.89	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	51.49
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.74	67.93	278.89	51.49
Anticipated crop nutrient removal	220.00	37.40	165.00	1,496.00
Actual crop nutrient removal	212.08	47.13	168.09	1,712.35
Nutrient balance	7.66	20.80	110.79	-1,660.86
Applied to removed ratio	1.04	1.44	1.66	0.03

Fresh water applied
23,137,620.00 gallons
852.08 acre-inches
11.36 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

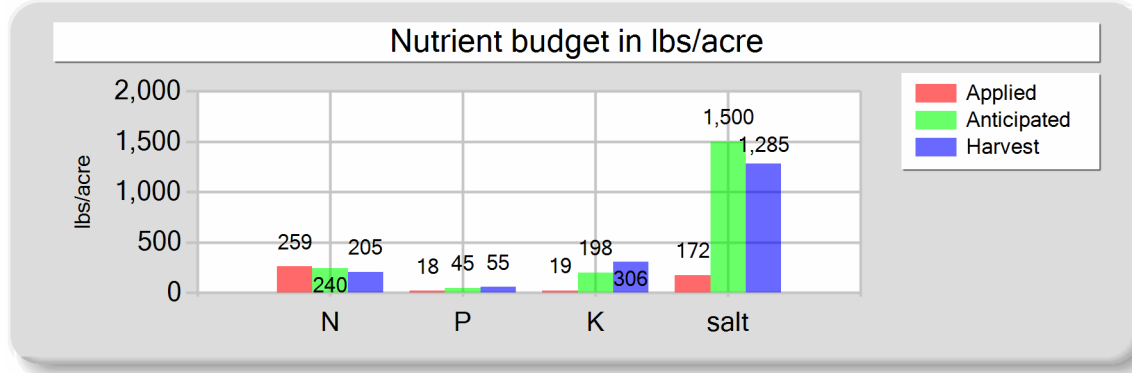
Reporting period 01/01/2023 to 12/31/2023.

8 - 06/17/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/17/2023



	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	252.32	17.60	19.07	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	171.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.32	17.60	19.07	171.66
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	205.20	55.40	305.75	1,284.56
Nutrient balance	54.12	-37.80	-286.68	-1,112.90
Applied to removed ratio	1.26	0.32	0.06	0.13

Fresh water applied
77,137,330.00 gallons
2,840.71 acre-inches
37.88 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

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

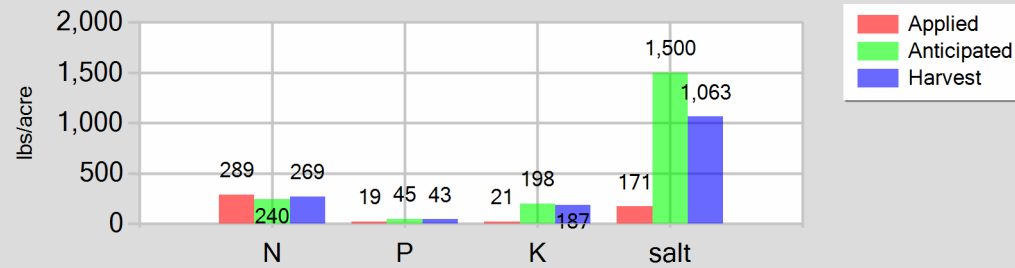
9 - 06/28/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/28/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	275.44	19.22	20.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	170.55
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	289.44	19.22	20.82	170.55
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	269.07	42.89	187.18	1,062.62
Nutrient balance	20.38	-23.68	-166.36	-892.07
Applied to removed ratio	1.08	0.45	0.11	0.16

Fresh water applied
58,246,610.00 gallons
2,145.02 acre-inches
37.63 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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

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

**NUTRIENT ANALYSES**

**A. MANURE ANALYSES**

**Manure**

Sample and source description: Manure

Sample date: 10/24/2022    Material type: Corral solids    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 7.6 %

	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 (%)
<b>Value</b>	27,000.00	7,600.00	31,800.00							
<b>DL</b>	100.00	200.00	200.00							

**Manure**

Sample and source description: Manure

Sample date: 05/01/2023    Material type: Corral solids    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 18.5 %

	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 (%)
<b>Value</b>	17,200.00	1,200.00	1,300.00							
<b>DL</b>	100.00	200.00	200.00							

**Manure**

Sample and source description: Manure

Sample date: 10/10/2023    Material type: Corral solids    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 8.4 %

	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 (%)
<b>Value</b>	21,600.00	8,100.00	27,300.00							
<b>DL</b>	100.00	200.00	200.00							

**B. PROCESS WASTEWATER ANALYSES**

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

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

## Lagoon

Sample and source description: LagoonSample date: 11/24/2022 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	218.00	121.00	0.00	0.00	43.50	234.00								4,420.00	2,940
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

## Lagoon

Sample and source description: LagoonSample date: 03/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.00

	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	437.00	156.00	0.00	0.00	112.00	524.00								4,540.00	3,020
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

## Lagoon

Sample and source description: LagoonSample date: 05/01/2023 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	340.00	118.00	0.00	0.00	67.50	345.00								1,340.00	890
DL	10.00	2.00	0.10	2.00	0.20	0.50								100.00	10

## Lagoon

Sample and source description: LagoonSample date: 08/07/2023 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	191.00	34.90	0.00	0.00	16.80	84.40								830.00	551
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

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

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

## Lagoon

Sample and source description: Lagoon

Sample date: 11/09/2023 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)
<b>Value</b>	166.00	129.00	0.00	0.00	33.00	184.00								2,340.00	1,550
<b>DL</b>	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

## C. FRESH WATER ANALYSES

### Barn Well North

#### Domestic well

Sample description: Domestic well

Sample date: 12/14/2023 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)
<b>Value</b>			0.50								205.00	
<b>DL</b>			0.40								1.00	

### Pixley ID

#### Pixley ID

Sample description: Pixley ID

Sample date: 06/23/2023 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)
<b>Value</b>	0.00	0.00	0.00								42.00	20
<b>DL</b>	0.50	0.20	0.40								1.00	20

## D. SOIL ANALYSES

*No soil analyses entered.*

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

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

E. PLANT TISSUE ANALYSES

1 - 11/10/2022: Triticale, soft dough

1

Sample and source description: 1

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,700.00	2,900.00	13,900.00		7.43
DL	500.00	200.00	200.00		0.05

1 - 06/19/2023: Corn, silage

1

Sample and source description: 1

Sample date: 10/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,200.00	10,700.00		5.69
DL	500.00	200.00	200.00		0.05

10 - 11/10/2022: Triticale, soft dough

10

Sample and source description: 10

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	3,000.00	11,500.00		7.39
DL	500.00	200.00	200.00		0.05



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

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

10 - 06/27/2023: Corn, silage

10

Sample and source description: 10

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,900.00	2,200.00	14,500.00		5.78
<b>DL</b>	500.00	200.00	200.00		0.05

11 - 11/11/2022: Triticale, soft dough

11

Sample and source description: 11

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,400.00	3,000.00	10,400.00		6.79
<b>DL</b>	500.00	200.00	200.00		0.05

11 - 06/19/2023: Corn, silage

11

Sample and source description: 11

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,600.00	2,800.00	8,500.00		5.32
<b>DL</b>	500.00	200.00	200.00		0.05

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

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

12 - 11/11/2022: Triticale, soft dough

12

Sample and source description: 12

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,100.00	3,000.00	11,700.00		6.97
<b>DL</b>	500.00	200.00	200.00		0.05

12 - 06/19/2023: Corn, silage

12

Sample and source description: 12

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,300.00	2,700.00	10,200.00		6.18
<b>DL</b>	500.00	200.00	200.00		0.05

2 - 11/12/2022: Triticale, soft dough

2

Sample and source description: 2

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,200.00	2,700.00	10,000.00		6.57
<b>DL</b>	500.00	200.00	200.00		0.05

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

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

2 - 06/22/2023: Corn, silage

2

Sample and source description: 2

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,700.00	2,300.00	13,100.00		5.15
<b>DL</b>	500.00	200.00	200.00		0.05

3 - 11/12/2022: Triticale, soft dough

3

Sample and source description: 3

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,300.00	2,900.00	10,200.00		7.03
<b>DL</b>	500.00	200.00	200.00		0.05

3 - 06/22/2023: Corn, silage

3

Sample and source description: 3

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,600.00	2,900.00	15,800.00		6.82
<b>DL</b>	500.00	200.00	200.00		0.05

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

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

4 - 11/13/2022: Triticale, soft dough

4

Sample and source description: 4

Sample date: 05/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,200.00	2,500.00	8,000.00		5.88
<b>DL</b>	500.00	200.00	200.00		0.05

4 - 06/23/2023: Corn, silage

4

Sample and source description: 4

Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,700.00	2,300.00	12,300.00		5.23
<b>DL</b>	500.00	200.00	200.00		0.05

5 - 11/14/2022: Triticale, soft dough

5

Sample and source description: 5

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,400.00	3,000.00	11,900.00		7.21
<b>DL</b>	500.00	200.00	200.00		0.05

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

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

5 - 06/17/2023: Corn, silage

5

Sample and source description: 5

Sample date: 09/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,200.00	3,000.00	9,100.00		5.23
<b>DL</b>	500.00	200.00	200.00		0.05

6 - 11/13/2022: Triticale, soft dough

6

Sample and source description: 6

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,400.00	3,300.00	10,100.00		6.67
<b>DL</b>	500.00	200.00	200.00		0.05

6 - 06/22/2023: Corn, silage

6

Sample and source description: 6

Sample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,600.00	2,300.00	14,100.00		5.39
<b>DL</b>	500.00	200.00	200.00		0.05

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

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

7 - 11/14/2022: Triticale, soft dough

7

Sample and source description: 7

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,900.00	3,000.00	11,600.00		6.85
<b>DL</b>	500.00	200.00	200.00		0.05

7 - 06/21/2023: Corn, silage

7

Sample and source description: 7

Sample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,900.00	3,600.00	12,900.00		6.20
<b>DL</b>	500.00	200.00	200.00		0.05

8 - 11/16/2022: Triticale, soft dough

8

Sample and source description: 8

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,500.00	3,000.00	10,700.00		10.90
<b>DL</b>	500.00	200.00	200.00		0.05

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

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

8 - 06/17/2023: Corn, silage

8

Sample and source description: 8

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,000.00	2,700.00	14,900.00		6.26
DL	500.00	200.00	200.00		0.05

9 - 06/28/2023: Corn, silage

9

Sample and source description: 9

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,800.00	2,200.00	9,600.00		5.45
DL	500.00	200.00	200.00		0.05

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES***No subsurface (tile) drainage analyses entered.*

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

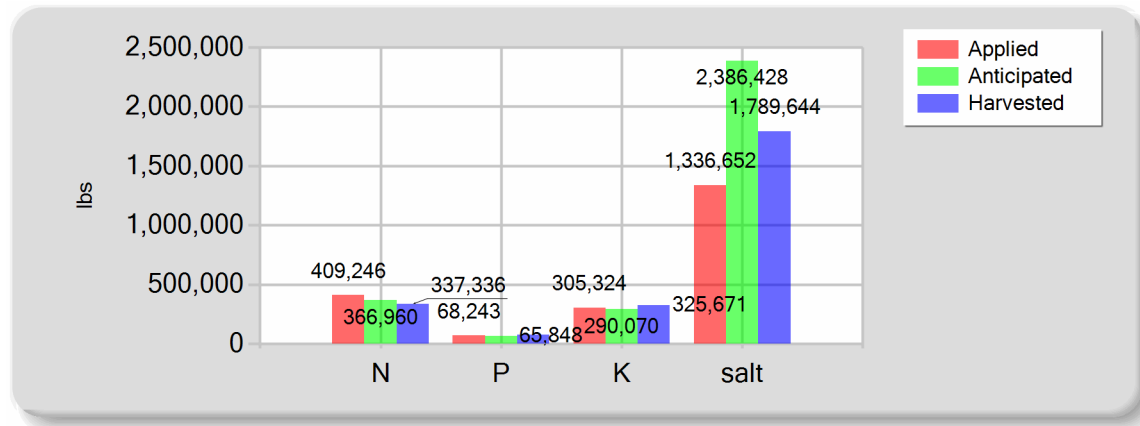
Reporting period 01/01/2023 to 12/31/2023.

**NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	163,306.69	26,942.59	92,273.22	0.00
Process wastewater	234,389.35	41,300.17	213,050.65	1,161,169.28
Fresh water	0.00	0.00	0.00	175,482.43
Atmospheric deposition	11,550.00	0.00	0.00	0.00
Total nutrients applied	409,246.04	68,242.76	305,323.87	1,336,651.70
Anticipated crop nutrient removal	366,960.00	65,848.20	290,070.00	2,386,428.00
Actual crop nutrient removal	337,335.76	76,173.41	325,670.61	1,789,643.67
Nutrient balance	71,910.28	-7,930.65	-20,346.74	-452,991.96
Applied to removed ratio	1.21	0.90	0.94	0.75

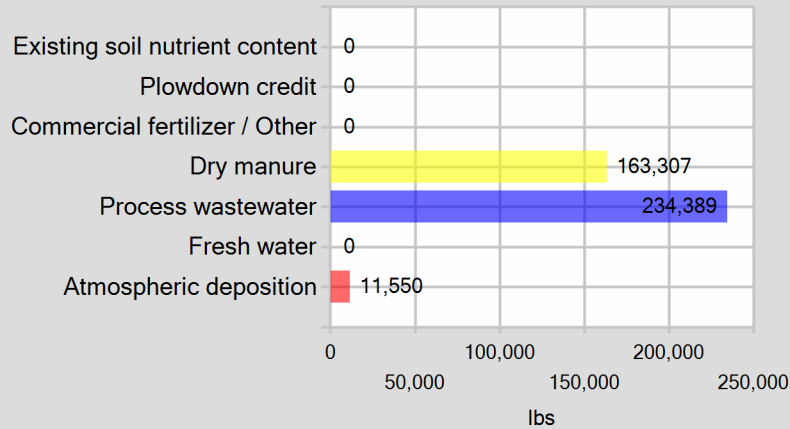
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**



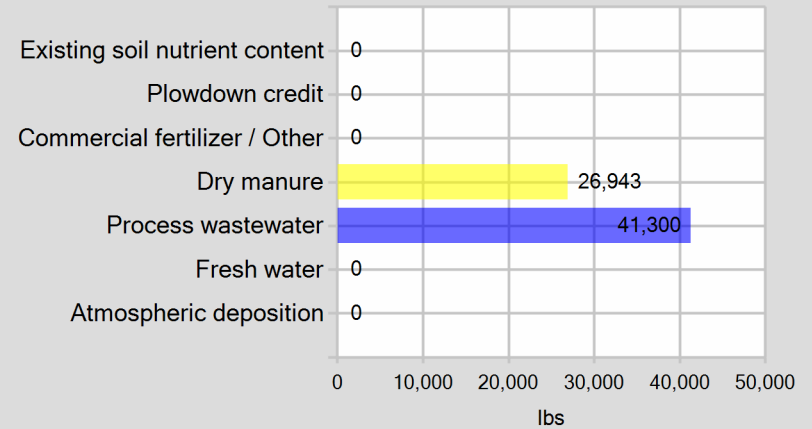


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

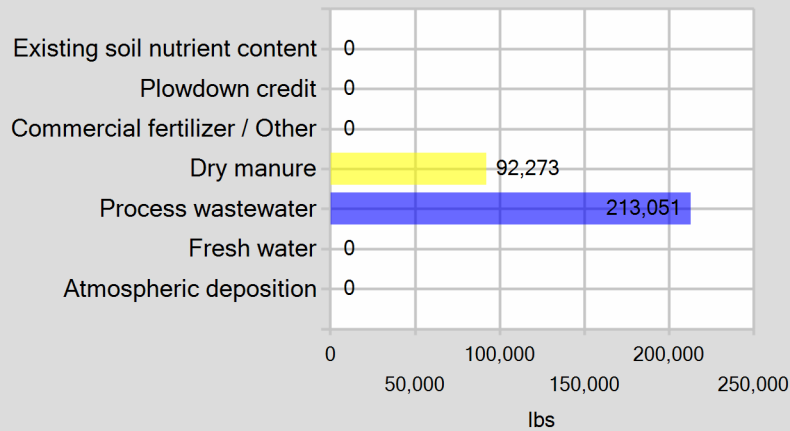
Pounds of nitrogen applied



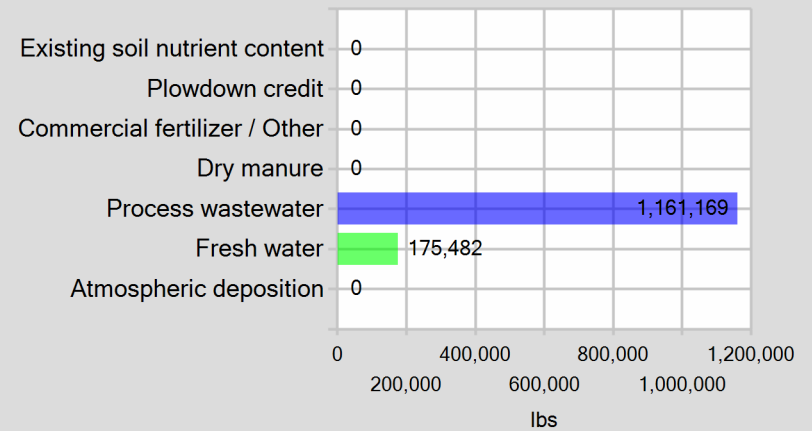
Pounds of phosphorus applied



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**

~Wells - Dom Well East, Barn Well South, North Irr Ag Well, South Irr Ag Well, East Irr Ag Well, Middle Irr Ag Well, Moorehead Irr Ag Well, Pixley Irr Well, Irr Well #11 and West Irr Ag Well were Out of Service in 2023.

Excessive amounts of surface water available for irrigation events.

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

SIGNATURE OF OPERATOR OF FACILITY

Randy Gorzeman

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

6/20/24

DATE

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.

July 11, 2023

**Sentry Ag Services**  
 Attn: Monique Baldiviez  
 P.O. Box 7750  
 Visalia, CA 93290

**Lab No. : VI 2344189**  
**Customer No. : 4019696**  
**Reference : 3042**

### Laboratory Report

**Introduction:** This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Pixley I.D.	06/23/2023	06/23/2023	VI 2344189-001	AGW

### Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

### Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

**Certification:** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-07-11

July 11, 2023

**Sentry Ag Services**

Attn: Monique Baldiviez  
 P.O. Box 7750  
 Visalia, CA 93290

Description : Pixley I.D.  
 Project : Pixley I.D.

Lab No. : VI 2344189-001  
 Customer No. : 4019696  
 Reference : 3042  
 Sampled On : June 23, 2023 at 09:00  
 Sampled By : Klay  
 Received On : June 23, 2023 at 10:28  
 Matrix : Ag Water

**Sample Results - Inorganic**

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:47	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:36	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:47	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:36	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:47	lcr
Conductivity	42	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	22:11	sta
Solids, Total Dissolved (TDS)	20	20	mg/L		1		06/27/2023	12:45	ctl	SM 2540 C	06/28/2023	11:35	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

**Corporate Offices & Laboratory**

853 Corporation Street  
 Santa Paula, CA 93060  
 TEL: (805)392-2000  
 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063  
 CA ELAP Certification No. 1573

**Office & Laboratory**

2500 Stagecoach Road  
 Stockton, CA 95215  
 TEL: (209)942-0182  
 FAX: (209)942-0423  
 CA ELAP Certification No. 1563

**Office & Laboratory**

563 E. Lindo Avenue  
 Chico, CA 95926  
 TEL: (530)343-5818  
 FAX: (530)343-3807  
 CA ELAP Certification No. 2670

**Office & Laboratory**

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 Visalia, CA 93291  
 TEL: (559)734-9473  
 FAX: (559)734-8435  
 CA ELAP Certification No. 2810

July 11, 2023  
Sentry Ag Service

Lab No. : VI 2344189  
Customer No. : 4019696

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2344352-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	06/27/2023:207083CTL (STK2338352-001) (STK2338352-001)	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		101%	90-110	
			Dup	mg/L		3.55%	5	
			Dup	mg/L		4.96%	5	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA (VI 2343914-005) (VI 2343914-006)	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		102%	73-124	
			MS	mg/L		89.5%	54-136	
			MSD	mg/L		96.2%	54-136	
			MSRPD	mg/L		6.8%	≤27	
			MS	mg/L		97.0%	54-136	
			MSD	mg/L		98.6%	54-136	
			MSRPD	mg/L		1.6%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS (SP 2310989-001)	Blank	mg/L	5.609	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			MSD	mg/L		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS (SP 2310989-001)	Blank	mg/L	5.609	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			MSD	mg/L		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	

#### Definition

- Blank** : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO** : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup** : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS** : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS** : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD** : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD** : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND** : Non-detect - Result was below the DQO listed for the analyte.





# Laboratory Analysis Work Order 2344189

3042

SITE NAME: Pixley I.D.

LABORATORY: VT | FGL 4-19696

Billing: Sentry Ag Services, LLC  
P.O. Box 7750, Visalia, CA 93290

Authorized Copy Release to:  
labs@sentryagservices.com

## ANALYSIS TO BE COMPLETED

### Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO<sub>3</sub>N (Dom)
- W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)
- W3 NH<sub>4</sub>-N (Ammonium)
- W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)
- W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)
- W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)
- W8 Other: \_\_\_\_\_

### Plant Tissue

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: \_\_\_\_\_

### Process Waste Water (lagoon)

- L1 EC, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Biennially)
- L4 Other: \_\_\_\_\_

### Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: \_\_\_\_\_

### Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>S
- S2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TN
- S3 NO<sub>3</sub>N, NH<sub>4</sub>N
- S4 Other: \_\_\_\_\_

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH <sub>3</sub> N *	pH	Temp
1	Pixley I.D.	Canal	W2	6/23/23 9:00	Klay	-		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

\* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

### CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 <sup>st</sup>	<i>[Signature]</i>	<i>[Signature]</i>		6/23/23 10:28
2 <sup>nd</sup>	<i>[Signature]</i>	FGL	6-23-2023 1028	
3 <sup>rd</sup>	<i>[Signature]</i>	FGL		6-23-2023 1028
4 <sup>th</sup>	<i>[Signature]</i>		6-23-2023 1730	6-23-2023 1730

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_ Total Samples: \_\_\_\_\_ Laboratory No.: \_\_\_\_\_

6.6°  
ROT

**Inter-Laboratory Condition Upon Receipt (Attach to COC)**

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: 6.6° ROT / 1 / 1 / 1

Surface water SWTR bact samples: A sample that has a temperature upon receipt of  $>10^{\circ}\text{C}$ , whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC? ☒ Yes No N/A

4. Were samples received intact? (i.e. no broken bottles, leaks etc.) ☒ Yes No

5. VOAs checked for Headspace? Yes No ☒ N/A

6. Were sample custody seals intact? Yes No ☒ N/A

7. If required, was sample split for pH analysis? Yes No ☒ N/A

8. Were all analyses within holding times at time of receipt? ☒ Yes No

9. Verify sample date, time and sampler name ☒ Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials) CS

**Sample Receipt at SP:**

1. Were samples received in a chilled condition? Temps: 1 / 1 / 1 / 1 / 1  
Acceptable is above freezing to  $6^{\circ}\text{C}$ . If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:

559648785 / 7 / 50 / 64 / 75

3. Do the number of bottles received agree with the COC? ☒ Yes No N/A

4. Were samples received intact? (i.e. no broken bottles, leaks etc.) ☒ Yes No

5. Were sample custody seals intact? Yes No ☒ N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

**Sample Verification, Labeling and Distribution:**

1. Were all requested analyses understood and acceptable? ☒ Yes No

2. Did bottle labels correspond with the client's ID's? ☒ Yes No

3. Were all bottles requiring sample preservation properly preserved? ☒ Yes No N/A FGL  
[Exception: Oil & Grease, VOA and CrVI verified in lab]

4. VOAs checked for Headspace? Yes No ☒ N/A

5. Have rush or project due dates been checked and accepted? Yes No ☒ N/A

6. Were all analyses within holding times at time of receipt? ☒ Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): CS

**Discrepancy Documentation:**

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_

Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

2. Person Contacted: \_\_\_\_\_

Initiated By: \_\_\_\_\_

Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

(Please use the back of this sheet for additional c contacts)

(4019696)  
Sentry Ag Service  
VI 2344189

iv 06/24/2023 09:55:05



01 2344189

December 22, 2023

**Sentry Ag Services**  
 Attn: Monique Baldiviez  
 P.O. Box 7750  
 Visalia, CA 93290

**Lab No. : VI 2348547**  
**Customer No. : 4019696**  
**Reference : 3494**

### Laboratory Report

**Introduction:** This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Barn Well North	12/14/2023	12/14/2023	VI 2348547-001	DW

### Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.


**Quality Control:** All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

### Test Summary

SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

**Certification:** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-12-24

December 22, 2023

**Sentry Ag Services**

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : Barn Well North

Project : Riverview Dairy

Lab No. : VI 2348547-001

Customer No. : 4019696

Reference : 3494

Sampled On : December 14, 2023 at 07:45

Sampled By : Brandon

Received On : December 14, 2023 at 13:37

Matrix : Drinking Water

**Sample Results - Inorganic**

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	0.5	0.4	mg/L	10	1		12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:34	lfs
Conductivity	205	1	umhos/cm	1600 <sup>2</sup>	1		12/21/2023	09:19	krh	SM 4500-H+B	12/21/2023	12:10	krh

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level, Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

**Corporate Offices & Laboratory**

853 Corporation Street

Santa Paula, CA 93060

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Env FAX: (805)525-4172 / Ag FAX: (805)392-2063

CA ELAP Certification No. 1573

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FAX: (209)942-0423

CA ELAP Certification No. 1563

**Office & Laboratory**

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CA ELAP Certification No. 2670

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CA ELAP Certification No. 2775

**Office & Laboratory**

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TEL: (559)734-9473

FAX: (559)734-8435

CA ELAP Certification No. 2810

December 22, 2023  
Sentry Ag Service

Lab No. : VI 2348547  
Customer No. : 4019696

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2348655-001)	Dup	umhos/cm		0.07%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.3%	80-120	
			MS	mg/L	5.609	93.1%	66-125	
		(VI 2348536-001)	MSD	mg/L	5.609	94.3%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	

#### Definition

Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup	: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.



# Laboratory Analysis Work Order

3494

23485467  
LABORATORY: VT | FGL 4-19696SITE NAME: Riverview DairyBilling: Sentry Ag Services, LLC  
P.O. Box 7750, Visalia, CA 93290Authorized Copy Release to:  
labs@sentryagservices.com**ANALYSIS TO BE COMPLETED****Irrigation/Ground Water (ELAP Standards)**

- W1 EC, NO<sub>3</sub>N (Dom)  
W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)  
W3 NH<sub>4</sub>-N (Ammonium)  
W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)  
W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)  
W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)  
W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)  
W8 Other: \_\_\_\_\_

**Plant Tissue**

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)  
P2 TN, P, K (Mid-season - Corn)  
P3 TN, TP, TK, Ash, %M (At Harvest)  
P4 TN, %M  
P5 % Moisture  
P6 NIR  
P7 Other: \_\_\_\_\_

**Process Waste Water (lagoon)**

- L1 EC, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)  
L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)  
L3 Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Biennially)  
L4 Other: \_\_\_\_\_

**Manure**

- M1 TN, TP, TK, %M (2/year)  
M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)  
M3 Other: \_\_\_\_\_

**Soil**

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>S  
S2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TN  
S3 NO<sub>3</sub>N, NH<sub>4</sub>N  
S4 Other: \_\_\_\_\_

1020°C

ROI

TH401

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH <sub>3</sub> N *	pH	Temp
1	Barn Well North	Domestic well	W1	12/14/23 7:45pm	Brandon	0		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

\* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling &amp; Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

**CHAIN OF CUSTODY RECORDING**

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 <sup>st</sup>		SAS		12/14/23 13:37
2 <sup>nd</sup>	AJB	FGL	12/14/23 13:37	
3 <sup>rd</sup>	AJB	FGL		12/14/23 17:30
4 <sup>th</sup>	CLS	CLS	12/14/23 17:30	

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_

Total Samples: \_\_\_\_\_

Laboratory No.: \_\_\_\_\_

1011703  
1155

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

1. Number of ice chests/packages received: 1 Shipping tracking #(s): STC

2. Temp IR Gun ID #: 407

3. Were samples received on ice? Yes No Temps: 10.0°C /      /      /       
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4. Do the number of bottles received agree with the COC? Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

6. VOAs checked for Headspace? Yes No N/A

7. Were all analyses within holding times at time of receipt? Yes No

8. Verify sample date, time and sampler name Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): ASB

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): SL00037319, SL00039443, SL00039454

2. Temp IR Gun ID #: 2040

3. Were samples received on ice? Yes No Temps: 2 /      / 1 / 1 / 3  
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4. Do the number of bottles received agree with the COC? Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No

2. Did bottle labels correspond with the client's ID's? Yes No

3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL  
[Exception: Oil & Grease, VOA and CrVI verified in lab]

4. VOAs checked for Headspace? Yes No N/A

5. Have rush or project due dates been checked and accepted? Yes No N/A

6. Were all analyses within holding times at time of receipt? Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials):     

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted:      Phone Number:     

Initiated By:      Date:     

Problem:     

Resolution:     

2. Person Contacted:      Phone Number:     

Initiated By:     

Problem:     

Resolution:



# ATTACHMENT D

## Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

### Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, **complete a separate form for each destination.**
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

### Operator Information:

Name of Operator: Randy Garzeman

Name of Dairy Facility: Riverview Dairy

Facility Address: 9295 Ave 88 Pixley 93256  
Number and Street City Zip Code

Contact Person Name and Phone Number: Randy 559-905-7544  
Name Phone Number

### Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: GONZALEZ AND SONS TRUCKING

Address of Hauling Company /Person: P.O BOX 2420 TULARE CA 93274

Contact Person: ANGEL GONZALEZ (559)358-6923

### Destination Information:

Composting Facility / Broker / Farmer / Other (identify) Composting (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Harvest 24487 Rd 140 Tulare 93274 (559)686-1622  
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: Aug 23 - Oct 23

### Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 7.105 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): \_\_\_\_\_

Manure Density (if amount reported in cubic yards): \_\_\_\_\_



Method used to determine amount of manure: Dairy scale

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: \_\_\_\_\_ Gallons

Method used to determine volume of process wastewater: \_\_\_\_\_

**Written Agreement:**

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

☐ Yes ☐ No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

\_\_\_\_\_ (Operator shall provide initials here to acknowledge this requirement).

**Certification:**

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

Operator's Signature: Randy Lynn

Date: 5/13/24

Hauler's Signature: Angel Gonzalez

Date: 5/13/24