

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: Phoenix Dairy

Physical address of dairy:

| | | | |
|---|-----------------|-----------------|-------------------|
| 10736 1 1/2 Avenue Number and Street | Hanford City | Kings County | 93230 Zip Code |
|---|-----------------|-----------------|-------------------|

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

Date facility was originally placed in operation: 01/01/1980

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X016-X100-X012-XXXX X016-X100-X066-XXXX

B. OPERATORS

te Velde, Bernard Jr

| | | | |
|---|-----------------|----------------|-------------------|
| Operator name: <u>te Velde, Bernard Jr</u> | Telephone no.: | (559) 936-2253 | |
| | Landline | Cellular | |
| 10736 1 1/2 Avenue Mailing Address Number and Street | Hanford City | CA State | 93230 Zip Code |

This operator is responsible for paying permit fees.

C. OWNERS

te Velde, Bernard Jr

| | | | |
|---|-----------------|----------------|-------------------|
| Legal owner name: <u>te Velde, Bernard Jr</u> | Telephone no.: | (559) 936-2253 | |
| | Landline | Cellular | |
| 10736 1 1/2 Avenue Mailing Address Number and Street | Hanford City | CA State | 93230 Zip Code |

This owner is responsible for paying permit fees.

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

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

AVAILABLE NUTRIENTS

A. HERD INFORMATION

| | Milk Cows | Dry Cows | Bred Heifers (15-24 mo.) | Heifers (7-14 mo. to breeding) | Calves (4-6 mo.) | Calves (0-3 mo.) |
|-------------------------|-----------|----------|-----------------------------|-----------------------------------|---------------------|---------------------|
| Number open confinement | 0 | 485 | 400 | 0 | 0 | 0 |
| Number under roof | 590 | 600 | 0 | 0 | 0 | 0 |
| Maximum number | 605 | 1,105 | 445 | 0 | 0 | 0 |
| Average number | 590 | 1,085 | 400 | 0 | 0 | 0 |
| Avg live weight (lbs) | 1,400 | 1,450 | 1,000 | 0 | | |

Predominant milk cow breed: Holstein

Average milk production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 35,168.25 tons per reporting period

Total nitrogen from manure: 433,846.76 lbs per reporting period

After ammonia losses (30% loss applied): 303,692.73 lbs per reporting period

Total phosphorus from manure: 66,060.57 lbs per reporting period

Total potassium from manure: 112,990.44 lbs per reporting period

Total salt from manure: 527,297.25 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 30,071,788 gallons

Total nitrogen generated: 100,384.24 lbs

| | |
|-----------------------------------|-------------------------------------|
| <u>30,071,788 gallons applied</u> | |
| + | <u>0 gallons exported</u> |
| - | <u>0 gallons imported</u> |
| = | <u>30,071,788 gallons generated</u> |

Total phosphorus generated: 14,887.79 lbs

Total potassium generated: 173,782.21 lbs

Total salt generated: 958,970.35 lbs

D. FRESH WATER SOURCES

| Source Description | Type |
|--------------------|--------------|
| Dairy Irr | Ground water |
| Dom 1 | Ground water |
| Dom 2 | Ground water |
| House Dom | Ground water |
| House Dom 2 | Ground water |

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

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

| Source Description | Type |
|--------------------|--------------|
| House Dom 3 | Ground water |
| Well 11 | Ground water |
| Well 14 | Ground water |
| Well 3 | Ground water |

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

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

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

| Field name | Controlled acres | Cropable acres | Total harvests | Type of waste applied | Parcel number |
|---|------------------|----------------|----------------|-----------------------|---------------------|
| 11 | 56 | 56 | 2 | process wastewater | X016-X100-X001-XXXX |
| 12 | 15 | 15 | 2 | process wastewater | X016-X100-X053-XXXX |
| 13 | 36 | 36 | 2 | process wastewater | X016-X100-X012-XXXX |
| 14 | 37 | 37 | 2 | process wastewater | X016-X100-X011-XXXX |
| 15 | 8 | 8 | 2 | process wastewater | X016-X100-X066-XXXX |
| 16 | 36 | 36 | 2 | process wastewater | X016-X100-X050-XXXX |
| Totals for areas that were used for application | 188 | 188 | 12 | | |
| Totals for areas that were not used for application | | | | | |
| Land application area totals | 188 | 188 | 12 | | |

B. CROPS AND HARVESTS

11

Field name: 11

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

Crop: Wheat, silage, soft dough Acres planted: 56 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 (%) |
|--|--------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 05/19/2023 | 1,290.00 ton | Dry-weight | | 64.1 | 13,900.00 | 3,600.00 | 15,100.00 | | 9.72 |
| Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre) | | | | | | | | | |
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 | | | | |
| Total actual harvest content | 23.04 | 229.90 | 59.54 | 249.75 | 1,607.65 | | | | |

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

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

11

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 56 Plant date: 06/10/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|---------------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 09/28/2023 | 1,685.00 <i>ton</i> | Dry-weight | | 73.3 | 11,600.00 | 2,400.00 | 14,200.00 | | 5.48 |

| | 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 | 30.09 | 186.39 | 38.56 | 228.16 | 880.51 |

12

Field name: 12

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

Crop: Wheat, silage, soft dough Acres planted: 15 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 (%) |
|--------------|-------------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 05/19/2023 | 380.00 <i>ton</i> | Dry-weight | | 66.3 | 14,100.00 | 3,500.00 | 12,800.00 | | 9.31 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 25.33 | 240.75 | 59.76 | 218.56 | 1,589.65 |

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 06/10/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|-------------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 09/27/2023 | 480.00 <i>ton</i> | Dry-weight | | 73.9 | 13,200.00 | 2,400.00 | 19,700.00 | | 7.08 |

| | 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 | 32.00 | 220.49 | 40.09 | 329.07 | 1,182.64 |

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

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

13

Field name: 13

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

Crop: Wheat, silage, soft dough Acres planted: 36 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 (%) |
|--------------|------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 05/19/2023 | 815.00 ton | Dry-weight | | 66.5 | 14,100.00 | 3,600.00 | 13,100.00 | | 8.59 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 22.64 | 213.87 | 54.61 | 198.70 | 1,302.94 |

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/11/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|--------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 10/19/2023 | 1,090.00 ton | Dry-weight | | 68.4 | 14,500.00 | 3,200.00 | 11,900.00 | | 5.75 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.28 | 277.47 | 61.23 | 227.71 | 1,100.29 |

14

Field name: 14

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

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/15/2022

| 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 | 875.00 ton | Dry-weight | | 64.5 | 14,500.00 | 3,400.00 | 10,700.00 | | 8.27 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 23.65 | 243.46 | 57.09 | 179.66 | 1,388.58 |

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

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

14

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/12/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|---------------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 10/11/2023 | 1,120.00 <i>ton</i> | Dry-weight | | 68.3 | 12,300.00 | 2,700.00 | 15,800.00 | | 6.16 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 30.00 | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Total actual harvest content | 30.27 | 236.05 | 51.82 | 303.22 | 1,182.19 |

15

Field name: 15

11/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 8 Plant date: 11/09/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|-------------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 05/19/2023 | 240.00 <i>ton</i> | Dry-weight | | 66.7 | 13,200.00 | 3,500.00 | 12,700.00 | | 9.17 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 30.00 | 263.74 | 69.93 | 253.75 | 1,832.17 |

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 8 Plant date: 06/13/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|-------------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 09/28/2023 | 219.00 <i>ton</i> | Dry-weight | | 67.3 | 12,500.00 | 2,600.00 | 15,100.00 | | 6.37 |

| | 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 | 27.38 | 223.79 | 46.55 | 270.34 | 1,140.44 |

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

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

16

Field name: 16

11/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/09/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|--------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 05/19/2023 | 1,044.00 ton | Dry-weight | | 65.6 | 13,300.00 | 3,600.00 | 13,600.00 | | 9.22 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|------------------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Anticipated harvest content | 18.00 | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Total actual harvest content | 29.00 | 265.36 | 71.83 | 271.35 | 1,839.57 |

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/13/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|--------------|------------|-----------------|---------------------|--------------|-----------|-----------|-----------|--------------|---------|
| 09/28/2023 | 979.00 ton | Dry-weight | | 69.3 | 13,500.00 | 2,800.00 | 13,600.00 | | 5.68 |

| | 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 | 27.19 | 225.41 | 46.75 | 227.08 | 948.41 |

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

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

NUTRIENT BUDGET**A. LAND APPLICATIONS**

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

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following |
|--------------------------|----------------------|------------------------------|----------------------------------|------------------|----------------------------------|
| 10/21/2022 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) |
| Lagoon | Process wastewater | 78.43 | 11.48 | 123.25 | 1,184.76 |
| Well 3 | Ground water | 3.39 | 0.00 | 0.00 | 181.66 |
| Application event totals | | 81.82 | 11.48 | 123.25 | 1,366.42 |
| 03/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Amount |
| Lagoon | Process wastewater | 107.65 | 15.68 | 168.03 | 1,212.78 |
| Well 3 | Ground water | 2.97 | 0.00 | 0.00 | 159.00 |
| Application event totals | | 110.62 | 15.68 | 168.03 | 1,371.78 |
| 04/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Amount |
| Lagoon | Process wastewater | 82.43 | 12.01 | 128.66 | 928.64 |
| Well 3 | Ground water | 2.95 | 0.00 | 0.00 | 157.88 |
| Application event totals | | 85.38 | 12.01 | 128.66 | 1,086.52 |

11 - 06/10/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/10/2023

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

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

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

11 - 06/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|------------------|----------------------------------|------------------|
| 05/23/2023 | 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 | 60.09 | 9.01 | 113.13 | 401.61 | 1,028,653.00 gal |
| Well 3 | Ground water | 3.73 | 0.00 | 0.00 | 200.08 | 8,951,067.00 gal |
| Application event totals | | 63.82 | 9.01 | 113.13 | 601.69 | |
| 07/01/2023 | Surface (irrigation) | No precipitation | 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 |
| Well 3 | Ground water | 3.93 | 0.00 | 0.00 | 210.32 | 9,409,294.00 gal |
| Application event totals | | 3.93 | 0.00 | 0.00 | 210.32 | |
| 07/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 66.89 | 10.03 | 125.92 | 447.04 | 1,145,000.00 gal |
| Well 3 | Ground water | 3.35 | 0.00 | 0.00 | 179.48 | 8,029,295.00 gal |
| Application event totals | | 70.24 | 10.03 | 125.92 | 626.51 | |
| 07/28/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 53.02 | 7.99 | 100.33 | 356.20 | 912,341.00 gal |
| Well 3 | Ground water | 3.84 | 0.00 | 0.00 | 205.81 | 9,207,522.00 gal |
| Application event totals | | 56.86 | 7.99 | 100.33 | 562.02 | |
| 08/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 44.41 | 6.66 | 83.61 | 296.84 | 760,284.00 gal |
| Well 3 | Ground water | 3.76 | 0.00 | 0.00 | 201.21 | 9,001,493.00 gal |
| Application event totals | | 48.17 | 6.66 | 83.61 | 498.04 | |

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

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

11 - 06/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 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 |
| Well 3 | Ground water | 3.93 | 0.00 | 0.00 | 210.41 | 9,413,408.00 gal |
| Application event totals | | 3.93 | 0.00 | 0.00 | 210.41 | |

12 - 11/14/2022: Wheat, silage, soft dough

Field name: 12

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

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 10/21/2022 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 107.79 | 15.78 | 169.39 | 1,628.23 | 453,754.00 gal |
| Well 3 | Ground water | 3.27 | 0.00 | 0.00 | 175.38 | 2,101,581.00 gal |
| Application event totals | | 111.06 | 15.78 | 169.39 | 1,803.61 | |
| 03/05/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 99.88 | 14.55 | 155.89 | 1,125.15 | 445,471.00 gal |
| Well 3 | Ground water | 3.12 | 0.00 | 0.00 | 167.28 | 2,004,499.00 gal |
| Application event totals | | 103.00 | 14.55 | 155.89 | 1,292.43 | |
| 04/10/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 54.79 | 7.98 | 85.52 | 617.24 | 244,377.00 gal |
| Well 3 | Ground water | 2.53 | 0.00 | 0.00 | 135.32 | 1,621,581.00 gal |
| Application event totals | | 57.32 | 7.98 | 85.52 | 752.56 | |

12 - 06/10/2023: Corn, silage

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

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

12 - 06/10/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 06/10/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 05/22/2023 | 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 | 64.07 | 9.66 | 121.24 | 430.42 | 295,295.00 gal |
| Well 3 | Ground water | 3.59 | 0.00 | 0.00 | 192.19 | 2,303,040.00 gal |
| Application event totals | | 67.66 | 9.66 | 121.24 | 622.61 | |
| 06/27/2023 | 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 | 61.13 | 9.17 | 115.08 | 408.56 | 280,300.00 gal |
| Well 3 | Ground water | 4.12 | 0.00 | 0.00 | 220.50 | 2,642,311.00 gal |
| Application event totals | | 65.24 | 9.17 | 115.08 | 629.06 | |
| 07/10/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 61.94 | 9.34 | 117.21 | 416.10 | 285,471.00 gal |
| Well 3 | Ground water | 3.12 | 0.00 | 0.00 | 167.28 | 2,004,499.00 gal |
| Application event totals | | 65.06 | 9.34 | 117.21 | 583.38 | |
| 07/26/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 44.60 | 6.72 | 84.39 | 299.61 | 205,551.00 gal |
| Well 3 | Ground water | 3.90 | 0.00 | 0.00 | 209.08 | 2,505,463.00 gal |
| Application event totals | | 48.50 | 6.72 | 84.39 | 508.69 | |
| 08/13/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 44.19 | 6.66 | 83.61 | 296.83 | 203,647.00 gal |
| Well 3 | Ground water | 3.74 | 0.00 | 0.00 | 200.44 | 2,401,966.00 gal |
| Application event totals | | 47.93 | 6.66 | 83.61 | 497.28 | |

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

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

12 - 06/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 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 |
| Well 3 | Ground water | 3.98 | 0.00 | 0.00 | 212.99 | 2,552,361.00 gal |
| Application event totals | | 3.98 | 0.00 | 0.00 | 212.99 | |

13 - 11/16/2022: Wheat, silage, soft dough

Field name: 13

Crop: Wheat, silage, soft dough Plant date: 11/16/2022

| 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 |
| Lagoon | Process wastewater | 76.74 | 11.23 | 120.58 | 1,159.12 | 775,256.00 gal |
| Well 3 | Ground water | 3.55 | 0.00 | 0.00 | 189.91 | 5,461,796.00 gal |
| Application event totals | | 80.28 | 11.23 | 120.58 | 1,349.03 | |
| 03/08/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 100.45 | 14.63 | 156.78 | 1,131.60 | 1,075,259.00 gal |
| Well 3 | Ground water | 2.83 | 0.00 | 0.00 | 151.39 | 4,354,045.00 gal |
| Application event totals | | 103.27 | 14.63 | 156.78 | 1,282.99 | |
| 04/10/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 73.40 | 10.69 | 114.57 | 826.93 | 785,754.00 gal |
| Well 3 | Ground water | 2.60 | 0.00 | 0.00 | 139.49 | 4,011,796.00 gal |
| Application event totals | | 76.01 | 10.69 | 114.57 | 966.42 | |

13 - 06/11/2023: Corn, silage

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

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

13 - 06/11/2023: Corn, silage

Field name: 13

Crop: Corn, silage

Plant date: 06/11/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 05/25/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 90.68 | 13.67 | 171.59 | 609.16 | 1,003,010.00 gal |
| Well 3 | Ground water | 3.28 | 0.00 | 0.00 | 175.85 | 5,057,297.00 gal |
| Application event totals | | 93.96 | 13.67 | 171.59 | 785.01 | |
| 06/29/2023 | 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 |
| Well 3 | Ground water | 3.54 | 0.00 | 0.00 | 189.52 | 5,450,549.00 gal |
| Application event totals | | 3.54 | 0.00 | 0.00 | 189.52 | |
| 07/14/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 98.61 | 14.87 | 186.60 | 662.45 | 1,090,760.00 gal |
| Well 3 | Ground water | 2.66 | 0.00 | 0.00 | 142.62 | 4,101,796.00 gal |
| Application event totals | | 101.27 | 14.87 | 186.60 | 805.07 | |
| 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 |
| Lagoon | Process wastewater | 83.85 | 12.64 | 158.67 | 563.30 | 927,508.00 gal |
| Well 3 | Ground water | 2.67 | 0.00 | 0.00 | 143.01 | 4,112,799.00 gal |
| Application event totals | | 86.52 | 12.64 | 158.67 | 706.31 | |
| 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 |
| Lagoon | Process wastewater | 70.70 | 10.66 | 133.78 | 474.94 | 782,006.00 gal |
| Well 3 | Ground water | 3.34 | 0.00 | 0.00 | 178.90 | 5,145,048.00 gal |
| Application event totals | | 74.04 | 10.66 | 133.78 | 653.83 | |

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

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

13 - 06/11/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 08/22/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.28 | 0.00 | 0.00 | 175.92 | 5,059,547.00 gal |
| Application event totals | | 3.28 | 0.00 | 0.00 | 175.92 | |
| 09/14/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.35 | 0.00 | 0.00 | 179.59 | 5,165,048.00 gal |
| Application event totals | | 3.35 | 0.00 | 0.00 | 179.59 | |
| 09/30/2023 | 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 |
| Well 3 | Ground water | 2.84 | 0.00 | 0.00 | 152.17 | 4,376,294.00 gal |
| Application event totals | | 2.84 | 0.00 | 0.00 | 152.17 | |

14 - 11/15/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 10/27/2022 | 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 | 94.14 | 13.78 | 147.93 | 1,422.02 | 977,508.00 gal |
| Well 3 | Ground water | 3.42 | 0.00 | 0.00 | 183.30 | 5,417,966.00 gal |
| Application event totals | | 97.56 | 13.78 | 147.93 | 1,605.31 | |

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

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

14 - 11/15/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|------------------|----------------------------------|------------------|
| 03/10/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 77.60 | 11.30 | 121.11 | 874.18 | 853,729.00 gal |
| Well 3 | Ground water | 2.53 | 0.00 | 0.00 | 135.58 | 4,007,500.00 gal |
| Application event totals | | 80.13 | 11.30 | 121.11 | 1,009.76 | |
| 04/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 88.38 | 12.87 | 137.94 | 995.62 | 972,330.00 gal |
| Well 3 | Ground water | 2.59 | 0.00 | 0.00 | 138.93 | 4,106,568.00 gal |
| Application event totals | | 90.97 | 12.87 | 137.94 | 1,134.55 | |

14 - 06/12/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/12/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|------------------|----------------------------------|------------------|
| 05/27/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 83.34 | 12.57 | 157.71 | 559.90 | 947,508.00 gal |
| Well 3 | Ground water | 3.81 | 0.00 | 0.00 | 203.93 | 6,027,966.00 gal |
| Application event totals | | 87.15 | 12.57 | 157.71 | 763.83 | |
| 06/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 60.19 | 9.07 | 113.89 | 404.34 | 684,255.00 gal |
| Well 3 | Ground water | 3.58 | 0.00 | 0.00 | 191.81 | 5,669,546.00 gal |
| Application event totals | | 63.77 | 9.07 | 113.89 | 596.14 | |

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

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

14 - 06/12/2023: 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 |
| Lagoon | Process wastewater | 80.70 | 12.17 | 152.72 | 542.17 | 917,508.00 gal |
| Well 3 | Ground water | 3.35 | 0.00 | 0.00 | 179.57 | 5,307,966.00 gal |
| Application event totals | | 84.06 | 12.17 | 152.72 | 721.74 | |
| 08/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 70.55 | 10.64 | 133.49 | 473.92 | 802,006.00 gal |
| Well 3 | Ground water | 3.71 | 0.00 | 0.00 | 198.49 | 5,867,034.00 gal |
| Application event totals | | 74.25 | 10.64 | 133.49 | 672.41 | |
| 08/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.35 | 0.00 | 0.00 | 179.56 | 5,307,500.00 gal |
| Application event totals | | 3.35 | 0.00 | 0.00 | 179.56 | |
| 09/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.45 | 0.00 | 0.00 | 184.60 | 5,456,568.00 gal |
| Application event totals | | 3.45 | 0.00 | 0.00 | 184.60 | |
| 09/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.58 | 0.00 | 0.00 | 191.81 | 5,669,546.00 gal |
| Application event totals | | 3.58 | 0.00 | 0.00 | 191.81 | |

15 - 11/09/2022: Wheat, silage, soft dough

Field name: 15

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022

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

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

15 - 11/09/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|------------------|----------------------------------|------------------|
| 10/21/2022 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 96.75 | 14.16 | 152.04 | 1,461.52 | 217,224.00 gal |
| Well 3 | Ground water | 2.95 | 0.00 | 0.00 | 158.02 | 1,009,899.00 gal |
| Application event totals | | 99.70 | 14.16 | 152.04 | 1,619.53 | |
| 03/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 100.45 | 14.63 | 156.78 | 1,131.60 | 238,946.00 gal |
| Well 3 | Ground water | 2.64 | 0.00 | 0.00 | 141.35 | 903,344.00 gal |
| Application event totals | | 103.09 | 14.63 | 156.78 | 1,272.94 | |
| 04/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 73.05 | 10.64 | 114.02 | 822.98 | 173,779.00 gal |
| Well 3 | Ground water | 2.84 | 0.00 | 0.00 | 107.65 | 938,177.00 gal |
| Application event totals | | 75.89 | 10.64 | 114.02 | 930.63 | |

15 - 06/13/2023: Corn, silage

| Field name: | 15 | Plant date: | 06/13/2023 | | | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| Crop: | Corn, silage | | | | | |
| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
| 05/23/2023 | 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 | 66.28 | 9.99 | 125.42 | 445.25 | 162,918.00 gal |
| Well 3 | Ground water | 3.49 | 0.00 | 0.00 | 186.94 | 1,194,732.00 gal |
| Application event totals | | 69.77 | 9.99 | 125.42 | 632.19 | |

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

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

15 - 06/13/2023: 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 |
| Lagoon | Process wastewater | 61.86 | 9.33 | 117.06 | 415.57 | 152,057.00 gal |
| Well 3 | Ground water | 3.55 | 0.00 | 0.00 | 190.34 | 1,216,454.00 gal |
| Application event totals | | 65.41 | 9.33 | 117.06 | 605.91 | |
| 07/14/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.68 | 0.00 | 0.00 | 197.13 | 1,259,899.00 gal |
| Application event totals | | 3.68 | 0.00 | 0.00 | 197.13 | |
| 07/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 70.70 | 10.66 | 133.78 | 474.94 | 173,779.00 gal |
| Well 3 | Ground water | 3.55 | 0.00 | 0.00 | 190.34 | 1,216,454.00 gal |
| Application event totals | | 74.25 | 10.66 | 133.78 | 665.27 | |
| 08/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 71.40 | 10.76 | 135.11 | 479.64 | 175,501.00 gal |
| Well 3 | Ground water | 3.74 | 0.00 | 0.00 | 200.53 | 1,281,622.00 gal |
| Application event totals | | 75.14 | 10.76 | 135.11 | 680.18 | |
| 09/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well 3 | Ground water | 3.81 | 0.00 | 0.00 | 203.93 | 1,303,344.00 gal |
| Application event totals | | 3.81 | 0.00 | 0.00 | 203.93 | |

16 - 11/09/2022: Wheat, silage, soft dough

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022

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

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

16 - 11/09/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|------------------|----------------------------------|------------------|
| 10/25/2022 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 87.30 | 12.78 | 137.19 | 1,318.73 | 882,006.00 gal |
| Well 3 | Ground water | 3.47 | 0.00 | 0.00 | 186.09 | 5,351,796.00 gal |
| Application event totals | | 90.78 | 12.78 | 137.19 | 1,504.81 | |
| 03/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 100.45 | 14.63 | 156.78 | 1,131.60 | 1,075,259.00 gal |
| Well 3 | Ground water | 2.82 | 0.00 | 0.00 | 150.81 | 4,337,297.00 gal |
| Application event totals | | 103.26 | 14.63 | 156.78 | 1,282.41 | |
| 04/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 68.49 | 9.98 | 106.89 | 771.55 | 733,131.00 gal |
| Well 3 | Ground water | 2.68 | 0.00 | 0.00 | 143.51 | 4,127,298.00 gal |
| Application event totals | | 71.17 | 9.98 | 106.89 | 915.05 | |

16 - 06/13/2023: Corn, silage

| Field name: | 16 | Plant date: | 06/13/2023 | | | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| Crop: | Corn, silage | | | | | |
| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
| 05/23/2023 | 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 | 79.53 | 11.99 | 150.50 | 534.30 | 879,757.00 gal |
| Well 3 | Ground water | 3.74 | 0.00 | 0.00 | 200.53 | 5,767,297.00 gal |
| Application event totals | | 83.28 | 11.99 | 150.50 | 734.84 | |

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

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

16 - 06/13/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | | Precipitation 24 hours following | |
|--------------------------|----------------------|------------------------------|----------------------------------|--------------|----------------------------------|------------------|
| 06/29/2023 | 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 |
| Well 3 | Ground water | 3.87 | 0.00 | 0.00 | 207.33 | 5,962,799.00 gal |
| Application event totals | | 3.87 | 0.00 | 0.00 | 207.33 | |
| 07/15/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 106.04 | 15.99 | 200.67 | 712.40 | 1,173,009.00 gal |
| Well 3 | Ground water | 3.74 | 0.00 | 0.00 | 200.53 | 5,767,297.00 gal |
| Application event totals | | 109.79 | 15.99 | 200.67 | 912.94 | |
| 07/31/2023 | Surface (irrigation) | No precipitation | No precipitation | | No precipitation | |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon | Process wastewater | 70.70 | 10.66 | 133.78 | 474.94 | 782,006.00 gal |
| Well 3 | Ground water | 3.68 | 0.00 | 0.00 | 197.13 | 5,669,546.00 gal |
| Application event totals | | 74.38 | 10.66 | 133.78 | 672.07 | |
| 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 |
| Well 3 | Ground water | 3.80 | 0.00 | 0.00 | 203.74 | 5,859,555.00 gal |
| Application event totals | | 3.80 | 0.00 | 0.00 | 203.74 | |
| 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 |
| Well 3 | Ground water | 3.74 | 0.00 | 0.00 | 200.53 | 5,767,297.00 gal |
| Application event totals | | 3.74 | 0.00 | 0.00 | 200.53 | |

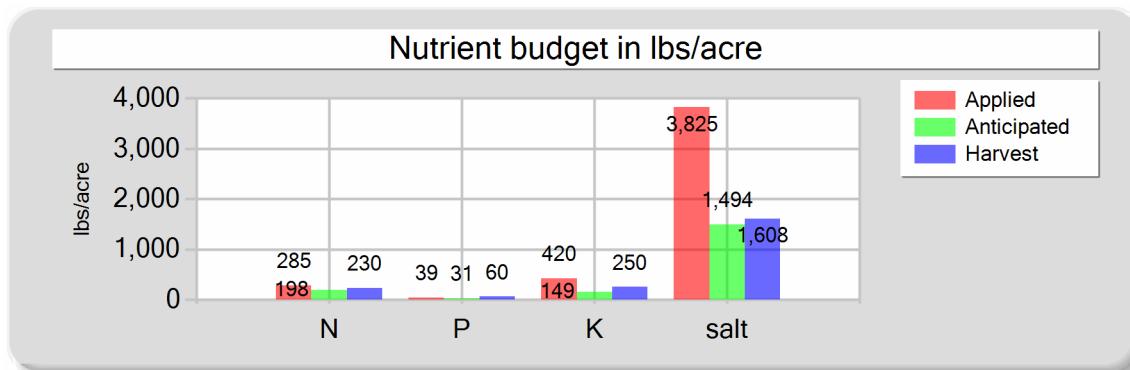
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

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

Field name: 11 Crop: Wheat, silage, soft dough Plant date: 11/14/2022



| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 268.52 | 39.17 | 419.94 | 3,326.18 |
| Fresh water | 9.31 | 0.00 | 0.00 | 498.54 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 284.83 | 39.17 | 419.94 | 3,824.71 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 229.90 | 59.54 | 249.75 | 1,607.65 |
| Nutrient balance | 54.92 | -20.37 | 170.19 | 2,217.06 |
| Applied to removed ratio | 1.24 | 0.66 | 1.68 | 2.38 |

| |
|-----------------------------|
| Fresh water applied |
| 22,303,202.00 gallons |
| 821.35 acre-inches |
| 14.67 inches/acre |
| Process wastewater applied |
| 4,397,875.00 gallons |
| 161.96 acre-inches |
| 2.89 inches/acre |
| Total harvests for the crop |
| 1 harvests |

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

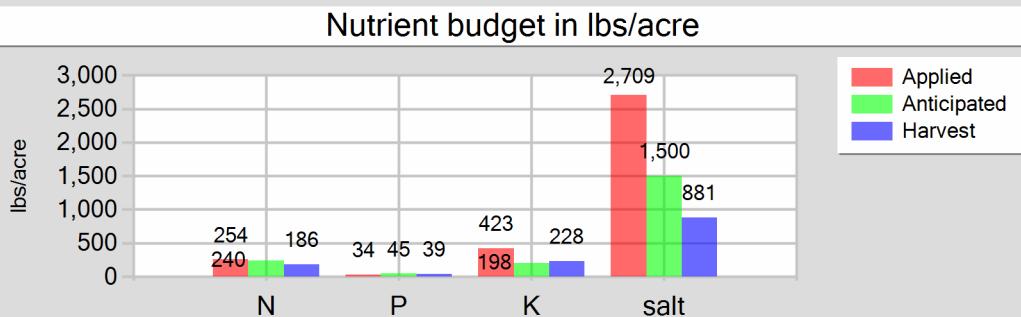
Reporting period 01/01/2023 to 12/31/2023.

11 - 06/10/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/10/2023



| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 224.41 | 33.70 | 423.00 | 1,501.69 |
| Fresh water | 22.54 | 0.00 | 0.00 | 1,207.31 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 253.94 | 33.70 | 423.00 | 2,709.00 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 186.39 | 38.56 | 228.16 | 880.51 |
| Nutrient balance | 67.56 | -4.86 | 194.83 | 1,828.50 |
| Applied to removed ratio | 1.36 | 0.87 | 1.85 | 3.08 |

Fresh water applied

54,012,079.00 gallons
1,989.08 acre-inches
35.52 inches/acre

Process wastewater applied

3,846,278.00 gallons
141.65 acre-inches
2.53 inches/acre

Total harvests for the crop

1 harvests

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

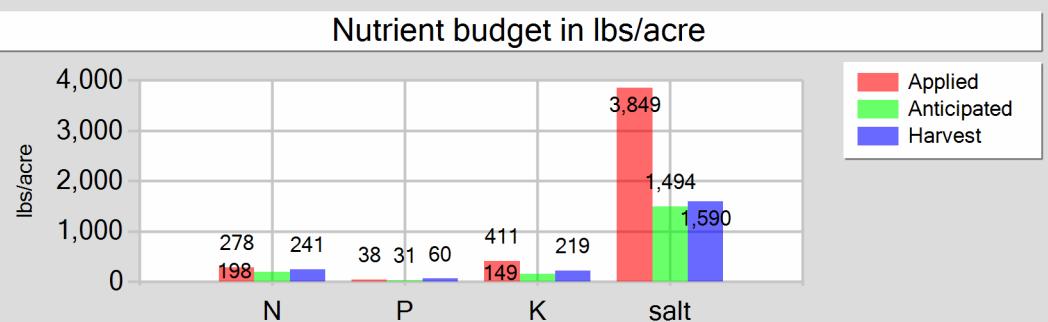
Reporting period 01/01/2023 to 12/31/2023.

12 - 11/14/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) | Fresh water applied |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|-----------------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 | 5,727,661.00 gallons |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 | 210.93 acre-inches |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 | 14.06 inches/acre |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 | |
| Process wastewater | 262.46 | 38.31 | 410.79 | 3,370.61 | Process wastewater applied |
| Fresh water | 8.92 | 0.00 | 0.00 | 477.97 | 1,143,602.00 gallons |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 | 42.11 acre-inches |
| Total nutrients applied | 278.38 | 38.31 | 410.79 | 3,848.59 | 2.81 inches/acre |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 | Total harvests for the crop |
| Actual crop nutrient removal | 240.75 | 59.76 | 218.56 | 1,589.65 | 1 harvests |
| Nutrient balance | 37.63 | -21.46 | 192.23 | 2,258.94 | |
| Applied to removed ratio | 1.16 | 0.64 | 1.88 | 2.42 | |

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

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

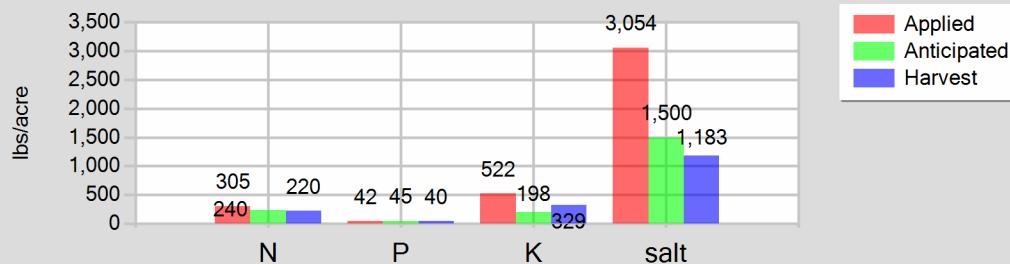
12 - 06/10/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 06/10/2023

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 | 275.92 | 41.55 | 521.54 | 1,851.53 |
| Fresh water | 22.45 | 0.00 | 0.00 | 1,202.48 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 305.37 | 41.55 | 521.54 | 3,054.01 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 220.49 | 40.09 | 329.07 | 1,182.64 |
| Nutrient balance | 84.87 | 1.46 | 192.47 | 1,871.37 |
| Applied to removed ratio | 1.38 | 1.04 | 1.58 | 2.58 |

Fresh water applied

14,409,640.00 gallons
530.66 acre-inches
35.38 inches/acre

Process wastewater applied

1,270,264.00 gallons
46.78 acre-inches
3.12 inches/acre

Total harvests for the crop

1 harvests

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

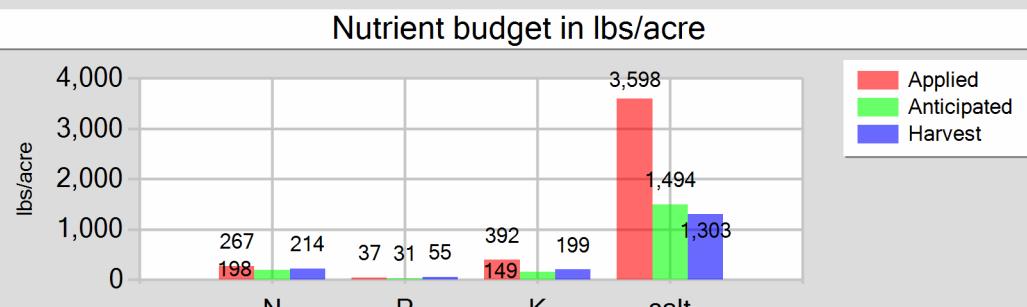
Reporting period 01/01/2023 to 12/31/2023.

13 - 11/16/2022: Wheat, silage, soft dough

Field name: 13

Crop: Wheat, silage, 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 | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 250.59 | 36.55 | 391.93 | 3,117.65 |
| Fresh water | 8.97 | 0.00 | 0.00 | 480.80 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 266.56 | 36.55 | 391.93 | 3,598.44 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 213.87 | 54.61 | 198.70 | 1,302.94 |
| Nutrient balance | 52.69 | -18.05 | 193.23 | 2,295.51 |
| Applied to removed ratio | 1.25 | 0.67 | 1.97 | 2.76 |

Fresh water applied

13,827,637.00 gallons
509.22 acre-inches
14.15 inches/acre

Process wastewater applied

2,636,269.00 gallons
97.08 acre-inches
2.70 inches/acre

Total harvests for the crop

1 harvests

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

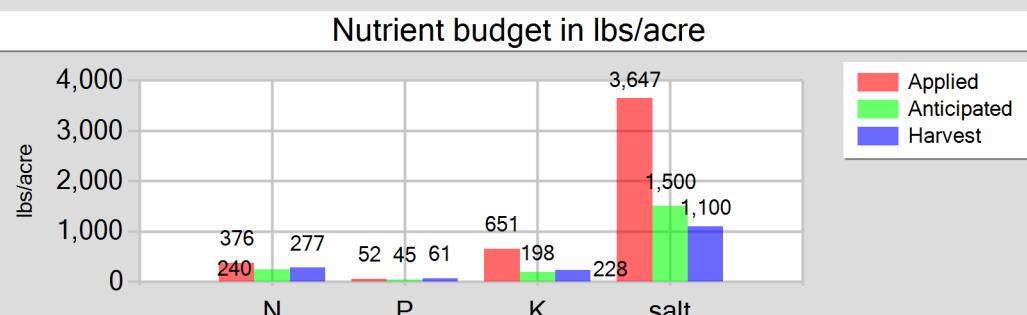
Reporting period 01/01/2023 to 12/31/2023.

13 - 06/11/2023: Corn, silage

Field name: 13

Crop: Corn, silage

Plant date: 06/11/2023



| | 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 | 343.83 | 51.84 | 650.64 | 2,309.85 |
| Fresh water | 24.97 | 0.00 | 0.00 | 1,337.58 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 375.80 | 51.84 | 650.64 | 3,647.43 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 277.47 | 61.23 | 227.71 | 1,100.29 |
| Nutrient balance | 98.34 | -9.39 | 422.92 | 2,547.13 |
| Applied to removed ratio | 1.35 | 0.85 | 2.86 | 3.31 |

Fresh water applied

38,468,378.00 gallons
1,416.66 acre-inches
39.35 inches/acre

Process wastewater applied

3,803,284.00 gallons
140.06 acre-inches
3.89 inches/acre

Total harvests for the crop

1 harvests

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

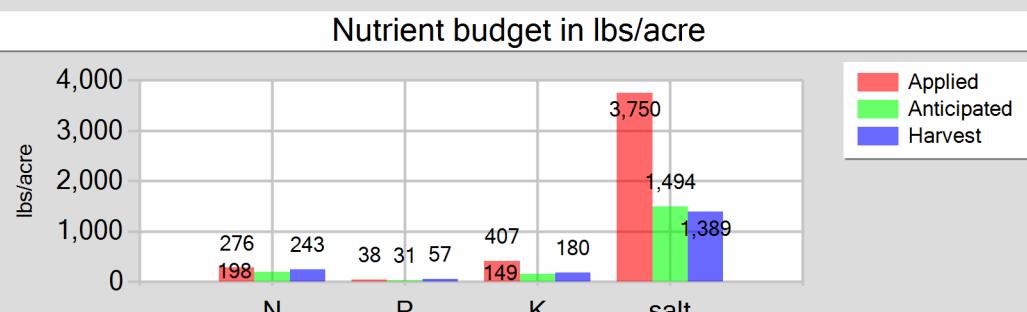
Reporting period 01/01/2023 to 12/31/2023.

14 - 11/15/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



| | 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 | 260.12 | 37.95 | 406.99 | 3,291.82 |
| Fresh water | 8.55 | 0.00 | 0.00 | 457.80 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 275.66 | 37.95 | 406.99 | 3,749.62 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 243.46 | 57.09 | 179.66 | 1,388.58 |
| Nutrient balance | 32.20 | -19.13 | 227.33 | 2,361.04 |
| Applied to removed ratio | 1.13 | 0.66 | 2.27 | 2.70 |

Fresh water applied

13,532,034.00 gallons
498.34 acre-inches
13.47 inches/acre

Process wastewater applied

2,803,567.00 gallons
103.25 acre-inches
2.79 inches/acre

Total harvests for the crop

1 harvests

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

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

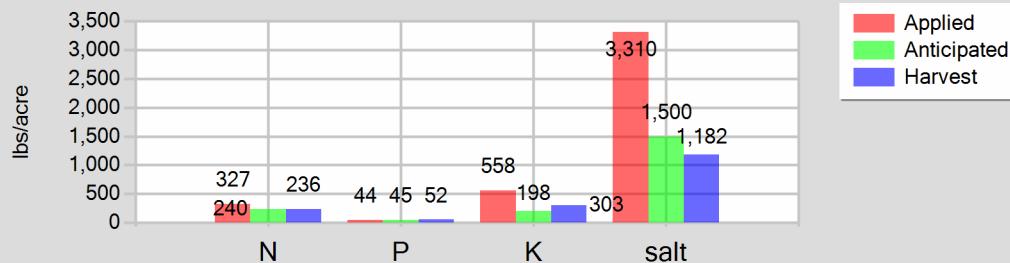
14 - 06/12/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/12/2023

Nutrient budget in lbs/acre



| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 294.78 | 44.44 | 557.82 | 1,980.32 |
| Fresh water | 24.82 | 0.00 | 0.00 | 1,329.77 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 326.60 | 44.44 | 557.82 | 3,310.09 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 236.05 | 51.82 | 303.22 | 1,182.19 |
| Nutrient balance | 90.55 | -7.37 | 254.59 | 2,127.91 |
| Applied to removed ratio | 1.38 | 0.86 | 1.84 | 2.80 |

Fresh water applied

39,306,126.00 gallons
1,447.51 acre-inches
39.12 inches/acre

Process wastewater applied

3,351,277.00 gallons
123.42 acre-inches
3.34 inches/acre

Total harvests for the crop

1 harvests

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

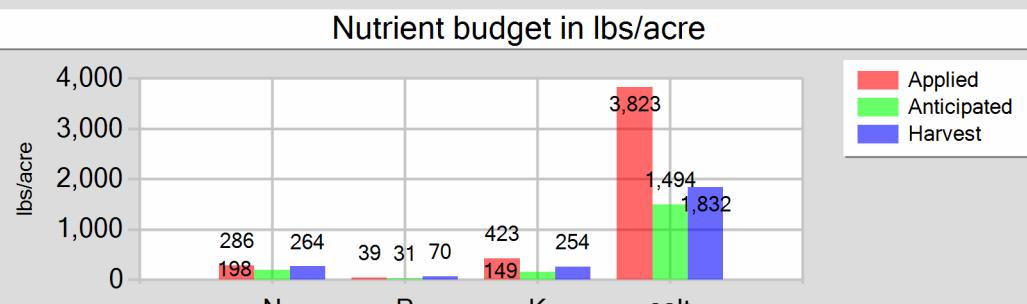
Reporting period 01/01/2023 to 12/31/2023.

15 - 11/09/2022: Wheat, silage, soft dough

Field name: 15

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022



| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) | Fresh water applied |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|-----------------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 | 2,851,420.00 gallons |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 | 105.01 acre-inches |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 | 13.13 inches/acre |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 | |
| Process wastewater | 270.26 | 39.43 | 422.84 | 3,416.09 | Process wastewater applied |
| Fresh water | 8.43 | 0.00 | 0.00 | 407.01 | 629,949.00 gallons |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 | 23.20 acre-inches |
| Total nutrients applied | 285.68 | 39.43 | 422.84 | 3,823.11 | 2.90 inches/acre |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 | Total harvests for the crop |
| Actual crop nutrient removal | 263.74 | 69.93 | 253.75 | 1,832.17 | 1 harvests |
| Nutrient balance | 21.95 | -30.50 | 169.10 | 1,990.94 | |
| Applied to removed ratio | 1.08 | 0.56 | 1.67 | 2.09 | |

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

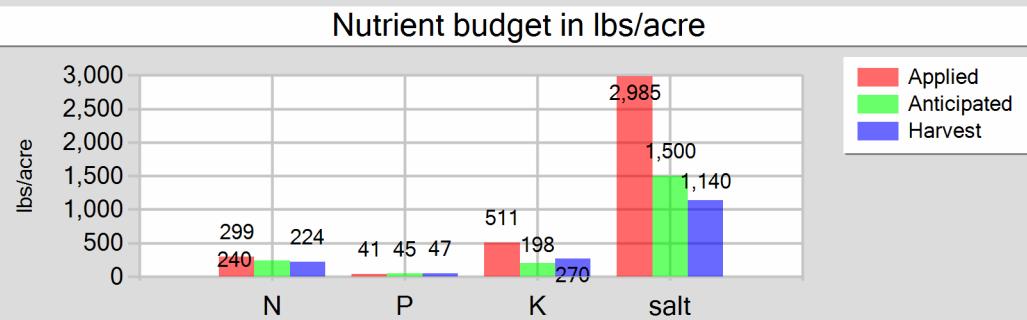
Reporting period 01/01/2023 to 12/31/2023.

15 - 06/13/2023: Corn, silage

Field name: 15

Crop: Corn, silage

Plant date: 06/13/2023



| | 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 | 270.23 | 40.74 | 511.36 | 1,815.40 |
| Fresh water | 21.83 | 0.00 | 0.00 | 1,169.21 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 299.06 | 40.74 | 511.36 | 2,984.61 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 223.79 | 46.55 | 270.34 | 1,140.44 |
| Nutrient balance | 75.27 | -5.81 | 241.02 | 1,844.18 |
| Applied to removed ratio | 1.34 | 0.88 | 1.89 | 2.62 |

Fresh water applied

7,472,505.00 gallons
275.19 acre-inches
34.40 inches/acre

Process wastewater applied

664,255.00 gallons
24.46 acre-inches
3.06 inches/acre

Total harvests for the crop

1 harvests

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

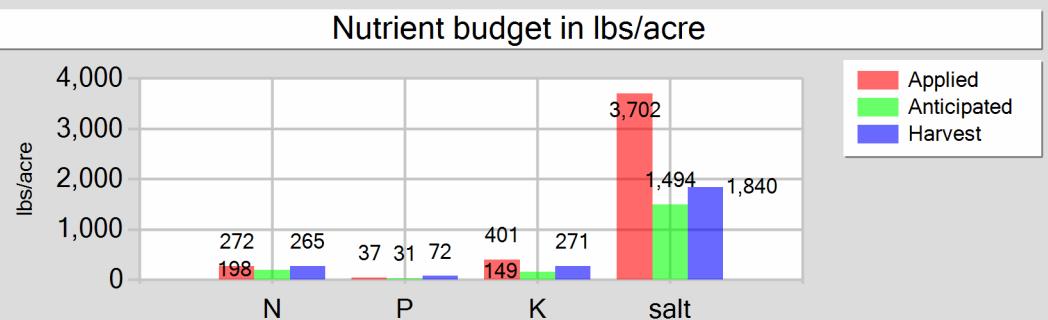
Reporting period 01/01/2023 to 12/31/2023.

16 - 11/09/2022: Wheat, silage, soft dough

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022



| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 256.24 | 37.39 | 400.86 | 3,221.87 |
| Fresh water | 8.97 | 0.00 | 0.00 | 480.41 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 272.20 | 37.39 | 400.86 | 3,702.28 |
| Anticipated crop nutrient removal | 198.00 | 30.60 | 149.40 | 1,494.00 |
| Actual crop nutrient removal | 265.36 | 71.83 | 271.35 | 1,839.57 |
| Nutrient balance | 6.84 | -34.44 | 129.51 | 1,862.71 |
| Applied to removed ratio | 1.03 | 0.52 | 1.48 | 2.01 |

Fresh water applied

| |
|-----------------------|
| 13,816,391.00 gallons |
| 508.81 acre-inches |
| 14.13 inches/acre |

Process wastewater applied

| |
|----------------------|
| 2,690,396.00 gallons |
| 99.08 acre-inches |
| 2.75 inches/acre |

Total harvests for the crop

| |
|------------|
| 1 harvests |
|------------|

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

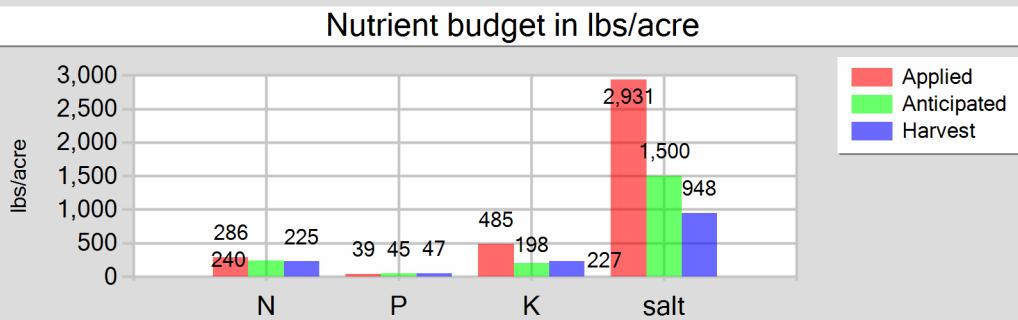
Reporting period 01/01/2023 to 12/31/2023.

16 - 06/13/2023: Corn, silage

Field name: 16

Crop: Corn, silage

Plant date: 06/13/2023



| | 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 | 256.28 | 38.64 | 484.95 | 1,721.64 |
| Fresh water | 22.58 | 0.00 | 0.00 | 1,209.81 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 285.86 | 38.64 | 484.95 | 2,931.45 |
| Anticipated crop nutrient removal | 240.00 | 45.00 | 198.00 | 1,500.00 |
| Actual crop nutrient removal | 225.41 | 46.75 | 227.08 | 948.41 |
| Nutrient balance | 60.44 | -8.11 | 257.87 | 1,983.04 |
| Applied to removed ratio | 1.27 | 0.83 | 2.14 | 3.09 |

Fresh water applied

34,793,791.00 gallons
1,281.34 acre-inches
35.59 inches/acre

Process wastewater applied

2,834,772.00 gallons
104.40 acre-inches
2.90 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: 05/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 33.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Calcium (mg/kg) | Magnesium (mg/kg) | Sodium (mg/kg) | Sulfur (mg/kg) | Chloride (mg/kg) | Total salt (mg/kg) | TFS (%) |
|-------|--------------------|--------------------|--------------------|--------------------|----------------------|-------------------|-------------------|---------------------|-----------------------|------------|
| Value | 22,900.00 | 5,800.00 | 12,400.00 | | | | | | | |
| DL | 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: 24.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Calcium (mg/kg) | Magnesium (mg/kg) | Sodium (mg/kg) | Sulfur (mg/kg) | Chloride (mg/kg) | Total salt (mg/kg) | TFS (%) |
|-------|--------------------|--------------------|--------------------|--------------------|----------------------|-------------------|-------------------|---------------------|-----------------------|------------|
| Value | 12,700.00 | 3,500.00 | 600.00 | | | | | | | |
| DL | 100.00 | 200.00 | 200.00 | | | | | | | |

B. PROCESS WASTEWATER ANALYSES**Lagoon**

Sample and source description: Lagoon

Sample date: 11/15/2022 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 | 427.00 | 333.00 | | | 62.50 | 671.00 | | | | | | | | 9,720.00 | 6,450 |
| DL | 10.00 | 2.00 | | | 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: 02/21/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.50

| | 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 | 403.00 | 283.00 | | | 58.70 | 629.00 | | | | | | | | 6,830.00 | 4,540 |
| DL | 10.00 | 2.00 | | | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

Sample date: 05/03/2023 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 | 390.00 | 370.00 | | | 58.80 | 738.00 | | | | | | | | 3,940.00 | 2,620 |
| DL | 10.00 | 2.00 | | | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

Sample date: 08/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

| | Kjeldahl-N (mg/L) | NH4-N (mg/L) | NH3-N (mg/L) | Nitrate-N (mg/L) | Total P (mg/L) | Total K (mg/L) | Calcium (mg/L) | Magnes. (mg/L) | Sodium (mg/L) | Bicarb. (mg/L) | Carb. (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|--------------|----------------------|-----------------|-----------------|---------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-----------------|-------------------|--------------------|------------------|---------------|
| Value | 281.00 | 273.00 | | | 53.90 | 373.00 | | | | | | | | 5,360.00 | 3,560 |
| DL | 10.00 | 2.00 | | | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

Lagoon

Sample and source description: Lagoon

Sample date: 11/10/2023 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 | 456.00 | 450.00 | | | 58.70 | 498.00 | | | | | | | | 6,850.00 | 4,550 |
| DL | 0.10 | 2.00 | | | 0.20 | 0.50 | | | | | | | | 100.00 | 10 |

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

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

C. FRESH WATER ANALYSES**Dairy Irr****Irrigation**Sample description: IrrigationSample date: 07/18/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|-------|-------------------|-----------------|---------------------|-------------------|---------------------|------------------|-----------------------|---------------------|-------------------|--------------------|------------------|---------------|
| Value | 46.20 | | 46.20 | | | | | | | | 1,120.00 | 910 |
| DL | 0.40 | | 0.40 | | | | | | | | 1.00 | 20 |

Dom 2**Domestic**Sample description: DomesticSample date: 08/23/2023 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) |
|-------|-------------------|-----------------|---------------------|-------------------|---------------------|------------------|-----------------------|---------------------|-------------------|--------------------|------------------|---------------|
| Value | | | 13.80 | | | | | | | | 484.00 | |
| DL | | | 0.20 | | | | | | | | 1.00 | |

House Dom**Domestic**Sample description: DomesticSample date: 08/23/2023 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) |
|-------|-------------------|-----------------|---------------------|-------------------|---------------------|------------------|-----------------------|---------------------|-------------------|--------------------|------------------|---------------|
| Value | | | 64.60 | | | | | | | | 1,690.00 | |
| DL | | | 0.20 | | | | | | | | 1.00 | |

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

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

House Dom 2**Domestic**

Sample description: Domestic

Sample date: 08/23/2023 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) |
|-------|-------------------|-----------------|---------------------|-------------------|---------------------|------------------|-----------------------|---------------------|-------------------|--------------------|------------------|---------------|
| Value | | | 41.30 | 136.00 | 4.00 | 76.00 | 150.00 | 0.00 | 41.50 | 93.00 | 1,110.00 | 880 |
| DL | | | 0.20 | 1.00 | 1.00 | 1.00 | 10.00 | 10.00 | 0.17 | 1.00 | 1.00 | 20 |

Well 3**Irrigation**

Sample description: Irrigation

Sample date: 07/18/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|-------|-------------------|-----------------|---------------------|-------------------|---------------------|------------------|-----------------------|---------------------|-------------------|--------------------|------------------|---------------|
| Value | 2.80 | | 2.80 | | | | | | | | 211.00 | 150 |
| DL | 0.50 | | 0.20 | | | | | | | | 1.00 | 20 |

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

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

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

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

11

Sample and source description: 11

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

Moisture: 64.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 13,900.00 | 3,600.00 | 15,100.00 | | 9.72 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

11 - 06/10/2023: Corn, silage

11

Sample and source description: 11

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 11,600.00 | 2,400.00 | 14,200.00 | | 5.48 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

12 - 11/14/2022: Wheat, silage, soft dough

12

Sample and source description: 12

Sample date: 05/19/2023 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 | 14,100.00 | 3,500.00 | 12,800.00 | | 9.31 |
| 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.

12 - 06/10/2023: Corn, silage

12

Sample and source description: 12

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 13,200.00 | 2,400.00 | 19,700.00 | | 7.08 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

13 - 11/16/2022: Wheat, silage, soft dough

13

Sample and source description: 13

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

Moisture: 66.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 14,100.00 | 3,600.00 | 13,100.00 | | 8.59 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

13 - 06/11/2023: Corn, silage

13

Sample and source description: 13

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 14,500.00 | 3,200.00 | 11,900.00 | | 5.75 |
| 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.

14 - 11/15/2022: Wheat, silage, soft dough

14

Sample and source description: 14

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

Moisture: 64.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 14,500.00 | 3,400.00 | 10,700.00 | | 8.27 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

14 - 06/12/2023: Corn, silage

14

Sample and source description: 14

Sample date: 10/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 12,300.00 | 2,700.00 | 15,800.00 | | 6.16 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

15 - 11/09/2022: Wheat, silage, soft dough

15

Sample and source description: 15

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

Moisture: 66.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 13,200.00 | 3,500.00 | 12,700.00 | | 9.17 |
| 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.

15 - 06/13/2023: Corn, silage

15

Sample and source description: 15

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 10,800.00 | 2,500.00 | 15,700.00 | | 5.94 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

16 - 11/09/2022: Wheat, silage, soft dough

16

Sample and source description: 16

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

Moisture: 65.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 13,300.00 | 3,600.00 | 13,600.00 | | 9.22 |
| DL | 500.00 | 200.00 | 200.00 | | 0.05 |

16 - 06/13/2023: Corn, silage

16

Sample and source description: 16

Sample date: 09/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|--------------|-----------------|-----------------|-----------------|--------------------|---------|
| Value | 10,800.00 | 2,500.00 | 15,700.00 | | 5.94 |
| 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.

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

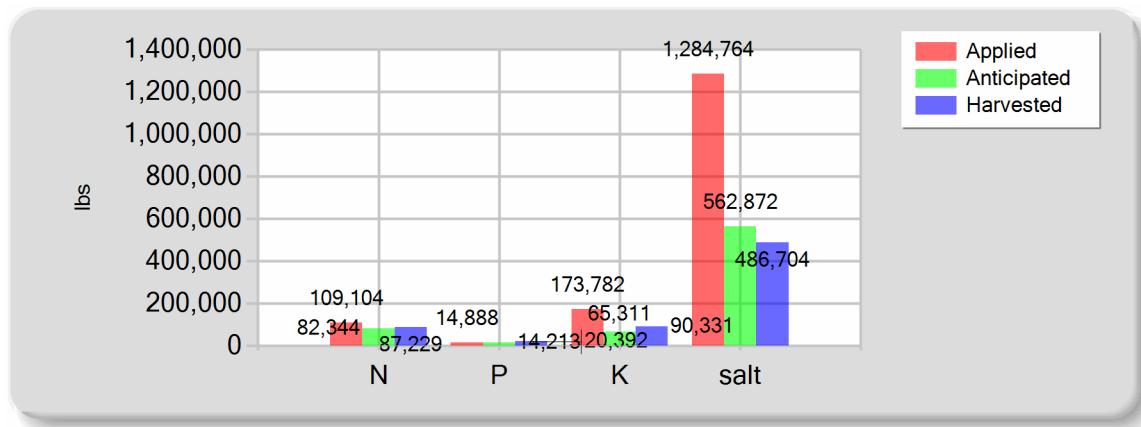
No subsurface (tile) drainage analyses entered.

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

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

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

| | Total N (lbs) | Total P (lbs) | Total K (lbs) | Total salt (lbs) |
|-----------------------------------|---------------|---------------|---------------|------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 100,384.24 | 14,887.79 | 173,782.21 | 958,970.35 |
| Fresh water | 6,088.11 | 0.00 | 0.00 | 325,793.83 |
| Atmospheric deposition | 2,632.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 109,104.36 | 14,887.79 | 173,782.21 | 1,284,764.18 |
| Anticipated crop nutrient removal | 82,344.00 | 14,212.80 | 65,311.20 | 562,872.00 |
| Actual crop nutrient removal | 87,229.04 | 20,392.02 | 90,331.10 | 486,704.42 |
| Nutrient balance | 21,875.32 | -5,504.23 | 83,451.11 | 798,059.76 |
| Applied to removed ratio | 1.25 | 0.73 | 1.92 | 2.64 |

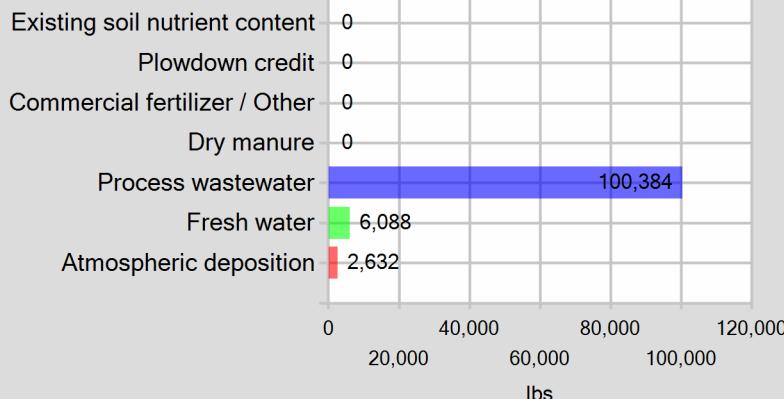
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

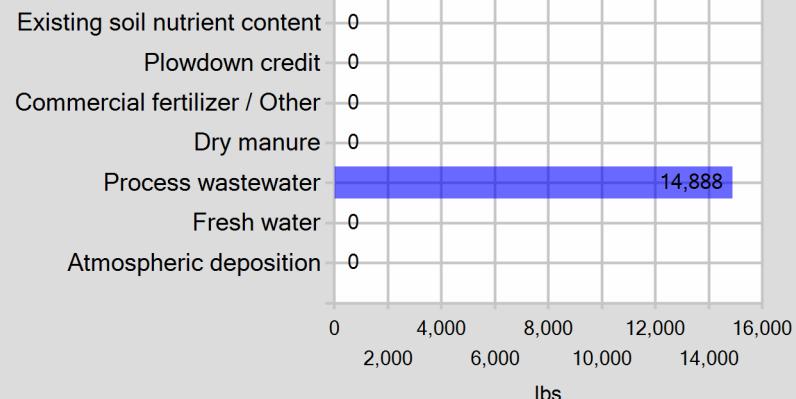
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

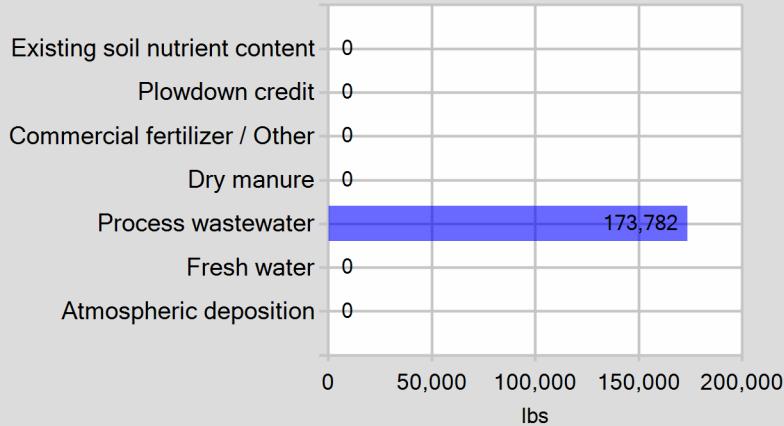
Pounds of nitrogen applied



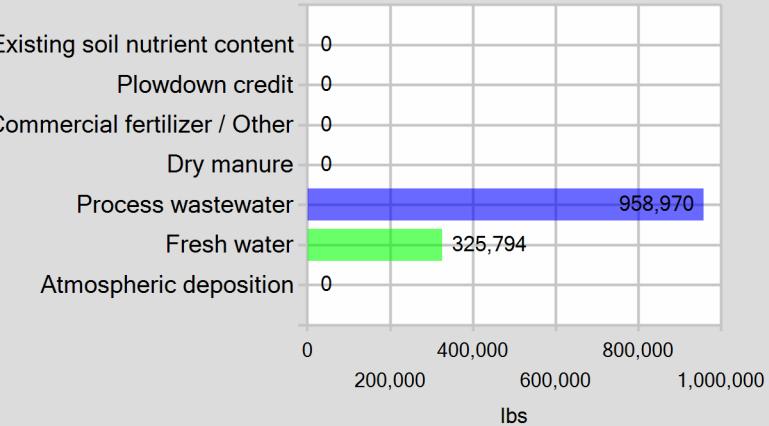
Pounds of phosphorus applied



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 14, Dom 1, House Dom 3, and Well 11 were out of service in 2023.

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

Bernard te Velde, Jr

PRINT OR TYPE NAME

6-13-2024

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

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.

September 8, 2023

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

Lab No. : VI 2345624
Customer No. : 4019696
Reference : 3134

Laboratory Report

Introduction: This report package contains a total of 7 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (3 pages) | : Results for each sample submitted. |
| Quality Control | (3 pages) | : 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 |
|--------------------|--------------|---------------|----------------|--------|
| Dom 2 | 08/23/2023 | 08/23/2023 | VI 2345624-001 | DW |
| House Dom | 08/23/2023 | 08/23/2023 | VI 2345624-002 | DW |
| House Dom 2 | 08/23/2023 | 08/23/2023 | VI 2345624-003 | DW |

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were 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 200.7 | Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573) |
| EPA 300.0 | 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: KEH

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-09-09

Section: Case Narrative

Page 1 of 7

Page 1 of 7

| 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 3442 Empresia Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775 | Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810 |
|---|---|---|--|---|
|---|---|---|--|---|

September 8, 2023

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

Description : Dom 2
 Project : Phoenix

Lab No. : VI 2345624-001
 Customer No. : 4019696
 Reference : 3134
 Sampled On : August 23, 2023 at 10:45
 Sampled By : Jeremy
 Received On : August 23, 2023 at 14:53
 Matrix : Drinking Water

Sample Results - Inorganic

| Constituent | Result | RL | Units | MCL/AL | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | |
|-----------------------|--------|-----|----------|-------------------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who |
| Dairy Analysis | | | | | | | | | | | | | |
| Nitrate Nitrogen | 13.8 | 0.4 | mg/L | 10 | 1 | | 08/24/2023 | 12:00 | lfs | SM 4500-NO3 F | 08/24/2023 | 14:24 | lfs |
| Conductivity | 484 | 1 | umhos/cm | 1600 ² | 1 | | 09/05/2023 | 09:15 | krh | SM 4500-H+B | 09/05/2023 | 13:11 | amm |

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.

September 8, 2023

Sentry Ag Services

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

Description : House Dom
Project : Phoenix

Lab No. : VI 2345624-002
Customer No. : 4019696
Reference : 3134
Sampled On : August 23, 2023 at 11:00
Sampled By : Jeremy
Received On : August 23, 2023 at 14:53
Matrix : Drinking Water

Sample Results - Inorganic

| Constituent | Result | RL | Units | MCL/AL | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | |
|-----------------------|--------|----|----------|-------------------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who |
| Dairy Analysis | | | | | | | | | | | | | |
| Nitrate Nitrogen | 64.6 | 2* | mg/L | 10 | 5 | | 08/24/2023 | 12:00 | lfs | SM 4500-NO3 F | 08/24/2023 | 16:14 | lfs |
| Conductivity | 1690 | 1 | umhos/cm | 1600 ² | 1 | | 09/05/2023 | 09:15 | krh | SM 4500-H+B | 09/05/2023 | 12:14 | amm |

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, 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
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

3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory

9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

September 8, 2023

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

Description : House Dom 2
 Project : Phoenix

Lab No. : VI 2345624-003
 Customer No. : 4019696
 Reference : 3134
 Sampled On : August 23, 2023 at 11:15
 Sampled By : Jeremy
 Received On : August 23, 2023 at 14:53
 Matrix : Drinking Water

Sample Results - Inorganic

| Constituent | Result | RL | Units | MCL/AL | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | | |
|------------------------------------|--------|------|----------|-------------------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|--|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who | |
| Dairy Analysis | | | | | | | | | | | | | | |
| Alkalinity (as CaCO ₃) | 130 | 10 | mg/L | | 1 | I | 08/28/2023 | 14:15 | amm | SM 4500-H+B | 08/29/2023 | 01:16 | amm | |
| Bicarbonate | 150 | 10 | mg/L | | 1 | I | 08/28/2023 | 14:15 | amm | SM 4500-H+B | 08/29/2023 | 01:16 | amm | |
| Carbonate | ND | 10 | mg/L | | 1 | U | 08/28/2023 | 14:15 | amm | SM 4500-H+B | 08/29/2023 | 01:16 | amm | |
| Hydroxide | ND | 10 | mg/L | | 1 | U | 08/28/2023 | 14:15 | amm | SM 4500-H+B | 08/29/2023 | 01:16 | amm | |
| Chloride | 93 | 1 | mg/L | 500 ² | 1 | | 08/24/2023 | 10:26 | ldm | EPA 300.0 | 08/24/2023 | 17:57 | ldm | |
| Nitrate Nitrogen | 41.3 | 0.5* | mg/L | 10 | 5 | | 08/24/2023 | 10:26 | ldm | EPA 300.0 | 08/25/2023 | 06:52 | ldm | |
| Conductivity | 1110 | 1 | umhos/cm | 1600 ² | 1 | I | 08/28/2023 | 14:15 | amm | SM 4500-H+B | 08/29/2023 | 01:16 | amm | |
| Sulfate Sulfur | 41.5 | 0.17 | mg/L | | 1 | | 08/24/2023 | 10:26 | ldm | EPA 300.0 | 08/24/2023 | 17:57 | ldm | |
| Solids, Total Dissolved (TDS) | 880 | 20 | mg/L | 1000 ² | 1 | | 08/25/2023 | 12:45 | ctl | SM 2540 C | 08/28/2023 | 10:45 | ctl | |
| Calcium | 136 | 1 | mg/L | | 1 | | 09/01/2023 | 07:35 | ejc | EPA 200.7 | 09/06/2023 | 19:08 | ac | |
| Magnesium | 4 | 1 | mg/L | | 1 | | 09/01/2023 | 07:35 | ejc | EPA 200.7 | 09/06/2023 | 19:08 | ac | |
| Potassium | ND | 1 | mg/L | | 1 | J | 09/01/2023 | 07:35 | ejc | EPA 200.7 | 09/06/2023 | 19:08 | ac | |
| Sodium | 76 | 1 | mg/L | | 1 | | 09/01/2023 | 07:35 | ejc | EPA 200.7 | 09/06/2023 | 19:08 | ac | |

DQF Flags Definition:

I The RPD for the laboratory duplicate exceeded laboratory criteria.

U Constituent results were non-detect.

J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

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

September 8, 2023
Sentry Ag Service

Lab No. : VI 2345624
Customer No. : 4019696

Quality Control - Metals

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|---------------|--------|--|--|--------------------------------------|---|-------------------------------------|---|------|
| Metals | | | | | | | | |
| Calcium | 200.7 | 09/01/2023:209819EJC (STK2351603-001) | Blank LCS MS MSD MSRPD (STK2351603-005) | mg/L mg/L mg/L mg/L mg/L | 12.00 12.00 12.00 12.00 12.00 | ND 96.3% 107% 109% 1.0% | <1 85-115 75-125 75-125 ≤20.0 | |
| Magnesium | 200.7 | 09/01/2023:209819EJC (STK2351603-001) | Blank LCS MS MSD MSRPD (STK2351603-005) | mg/L mg/L mg/L mg/L mg/L | 12.00 12.00 12.00 12.00 12.00 | ND 99.9% 115% 119% 0.7% | <1 85-115 75-125 75-125 ≤20 | |
| Potassium | 200.7 | 09/01/2023:209819EJC (STK2351603-001) | Blank LCS MS MSD MSRPD (STK2351603-005) | mg/L mg/L mg/L mg/L mg/L | 12.00 12.00 12.00 12.00 12.00 | ND 91.3% 112% 115% 1.4% | <1 85-115 75-125 75-125 ≤20.0 | |
| Sodium | 200.7 | 09/01/2023:209819EJC (STK2351603-001) | Blank LCS MS MSD MSRPD (STK2351603-005) | mg/L mg/L mg/L mg/L mg/L | 12.00 12.00 12.00 12.00 12.00 | ND 92.7% 184% 185% 0.0% | <1 85-115 <1/4 <1/4 ≤20.0 | |
| | | | | | | | | 406 |
| | | | | | | | | |

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.
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.

Explanation

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

Quality Control - Wet Chem

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|-------------------------|----------|--|--|--|---|--|--|------|
| Wet Chem | | | | | | | | |
| Alkalinity (as CaCO3) | 2320B | 08/28/2023:209654AMM | ND | mg/L | | 64.2% | 10 | 406 |
| Bicarbonate | 2320B | (VI 2345565-001) | Dup | mg/L | | 63.7% | 10 | 440 |
| E. C. | 2320B | (VI 2345565-001) | Dup | umhos/cm | | 50.0% | 5 | 440 |
| | 2320B | (VI 2345518-025) (VI 2345796-002) | Dup Dup | umhos/cm umhos/cm | | 0.5% 0.4% | 5 5 | |
| Solids, Total Dissolved | 2540CE | 08/25/2023:209549CTL (VI 2345629-003) (VI 2345629-003) | Blank LCS Dup Dup | mg/L mg/L mg/L mg/L | 991.5 | ND 98.3% 2.71% 1.38% | <20 90-110 5 5 | |
| Chloride | 300.0 | 08/24/2023:209576LDM (SP 2314123-005) (VI 2345581-004) | Blank LCS MS MSD MSRPD MS MSD MSRPD | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 25.00 50.00 50.00 10.00 50.00 50.00 10.00 | ND 98.8 % 92.3 % 92.3 % 0.06% 98.1 % 98.1 % 0.02% | <1 90-110 67-117 67-117 ≤7 67-117 67-117 ≤7 | |
| Nitrate Nitrogen | 300.0 | 08/24/2023:209576LDM (SP 2314123-005) (VI 2345581-004) | Blank LCS MS MSD MSRPD MS MSD MSRPD | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 20.00 40.00 40.00 10.00 40.00 40.00 10.00 | ND 99.1 % 100 % 100 % 0.2% 98.8 % 98.9 % 0.03% | <0.4 90-110 86-112 86-112 ≤7 86-112 86-112 ≤7 | |
| Sulfate Sulfur | 300.0 | 08/24/2023:209576LDM (SP 2314123-005) (VI 2345581-004) | Blank LCS MS MSD MSRPD MS MSD MSRPD | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 50.00 100.0 100.0 10.00 100.0 100.0 10.00 | ND 100 % 94.7 % 94.8 % 0.1% 100 % 101 % 0.05% | <0.5 90-110 18-165 18-165 ≤7 18-165 18-165 ≤7 | |
| Nitrate Nitrogen | 4500NO3F | 08/24/2023:209533LFS (SP 2314443-001) | Blank LCS MS MSD MSRPD | mg/L mg/L mg/L mg/L mg/L | 11.22 5.609 5.609 5.609 5.609 | ND 97.7% 92.4% 95.0% 1.3% | <0.4 80-120 66-125 66-125 ≤30.4 | |

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- 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.

Explanation

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.
- 440 : Sample nonhomogeneity may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

3134

SITE NAME: Phoenix

2345624

LABORATORY: FGL 4-19696Billing: 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, NO₃N (Dom)
 - W2 EC, NO₃N, TDS, TN (Irr)
 - W3 NH₄-N (Ammonium)
 - W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM) *2015.4 C*
 - W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM) *TD#*
 - W6 NO₃N, NO₂ (Dom ILRP, Annually)
 - W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 - W8 Other: _____
- T11407*

Plant Tissue

- P1 TN, NO₃N, PO₄P, 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, NH₄N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, 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, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
- S2 S1 + CEC, CaCO₃, OM, C:N, TN
- S3 NO₃N, NH₄N
- S4 Other: _____

| Sample ID | Description | Analysis | Date/Time | Sampled by | SAS USE ONLY: FIELD TESTS | | |
|---------------|---------------|----------|---------------|------------|---------------------------|----|------|
| | | | | | NH ₃ N * | pH | Temp |
| 1 Dom 2 | Domestic well | W1 | 8/23/23 10:45 | Gerry | O | | |
| 2 House Dom | | W1 | 8/23/23 11:00 | | O | | |
| 3 House Dom 2 | | W4 | 8/23/23 11:15 | | O | | |
| 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 st | <i>John D. P.</i> | SAS | 8/23/23 14:53 | |
| 2 nd | <i>A. D. P.</i> | Fed | 8/23/23 14:53 | |
| 3 rd | <i>A. D. P.</i> | | | 8/23/23 17:30 |
| 4 th | <i>GTS</i> | 1 | 8/23/23 17:30 | |

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory No.: _____

*8/23/23 17:30
JF 11:55*

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

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

2. Were samples received in a chilled condition? Temps: 61, 5.4, E, /, /

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.

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 N/A
9. Verify sample date, time and sampler name Yes No OTC

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

Sample Receipt Review completed by (initials) TDH TJH

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 61, /, /, /, /
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 50001444

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): LL

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: _____ (4019696)
Initiated By: _____
Problem:
Resolution:

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

cda 08/24/2023 09:36:45



UI 2345624

1

August 11, 2023

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

Lab No. : VI 2344654
Customer No. : 4019696
Reference : 3055

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : 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 |
|--------------------|--------------|---------------|----------------|--------|
| Dairy Irr | 07/18/2023 | 07/18/2023 | VI 2344654-001 | AGW |
| Well 3 | 07/18/2023 | 07/18/2023 | VI 2344654-002 | AGW |

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were 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: 2023-08-14

Section: Case Narrative

Page 1 of 4

Page 1 of 4

| Corporate Offices & Laboratory | Office & Laboratory | Office & Laboratory | Office & Laboratory | Office & 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 | 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563 | 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670 | 3442 Empresia Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775 | 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810 |

August 11, 2023

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

Description : Dairy Irr
 Project : Phoenix

Lab No. : VI 2344654-001
 Customer No. : 4019696
 Reference : 3055
 Sampled On : July 18, 2023 at 08:15
 Sampled By : Jeremy
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

| Constituent | Result | RL | Units | Note | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | |
|-------------------------------|--------|------|----------|------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who |
| Dairy Analysis | | | | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | ND | 0.5 | mg/L | | 1 | U | 08/08/2023 | 08:55 | sta | EPA 351.2 | 08/10/2023 | 17:25 | lcr |
| Nitrate Nitrogen | 46.2 | 0.8* | mg/L | | 2 | | 07/19/2023 | 12:15 | lfs | SM 4500-NO3 F | 07/19/2023 | 16:46 | lfs |
| Nitrogen, Total as Nitrogen | 46.2 | 0.8 | mg/L | | 1 | | 08/08/2023 | 08:55 | sta | Calc. | 08/10/2023 | 17:25 | lcr |
| Nitrate + Nitrite as N | 46.2 | 0.8* | mg/L | | 2 | | 07/19/2023 | 12:15 | lfs | SM 4500-NO3 F | 07/19/2023 | 16:46 | lfs |
| Kjeldahl Nitrogen | ND | 0.5 | mg/L | | 1 | U | 08/08/2023 | 08:55 | sta | EPA 351.2 | 08/10/2023 | 17:25 | lcr |
| Conductivity | 1120 | 1 | umhos/cm | | 1 | | 07/31/2023 | 17:05 | amm | SM 4500-H+B | 07/31/2023 | 20:45 | amm |
| Solids, Total Dissolved (TDS) | 910 | 20 | mg/L | | 1 | | 07/21/2023 | 09:30 | ctl | SM 2540 C | 07/24/2023 | 11:00 | ctl |

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

August 11, 2023

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

Description : Well 3
 Project : Phoenix

Lab No. : VI 2344654-002
 Customer No. : 4019696
 Reference : 3055
 Sampled On : July 18, 2023 at 08:20
 Sampled By : Jeremy
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

| Constituent | Result | RL | Units | Note | Dil. | DQF | Sample Preparation | | | Sample Analysis | | | |
|-------------------------------|--------|-----|----------|------|------|-----|--------------------|-------|-----|-----------------|------------|-------|-----|
| | | | | | | | Date | Time | Who | Method | Date | Time | Who |
| Dairy Analysis | | | | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | ND | 0.5 | mg/L | | 1 | U | 08/08/2023 | 08:55 | sta | EPA 351.2 | 08/10/2023 | 16:38 | lcr |
| Nitrate Nitrogen | 2.8 | 0.4 | mg/L | | 1 | | 07/19/2023 | 12:15 | lfs | SM 4500-NO3 F | 07/19/2023 | 14:31 | lfs |
| Nitrogen, Total as Nitrogen | 2.8 | 0.5 | mg/L | | 1 | | 08/08/2023 | 08:55 | sta | Calc. | 08/10/2023 | 16:38 | lcr |
| Nitrate + Nitrite as N | 2.8 | 0.4 | mg/L | | 1 | | 07/19/2023 | 12:15 | lfs | SM 4500-NO3 F | 07/19/2023 | 14:31 | lfs |
| Kjeldahl Nitrogen | ND | 0.5 | mg/L | | 1 | U | 08/08/2023 | 08:55 | sta | EPA 351.2 | 08/10/2023 | 16:38 | lcr |
| Conductivity | 211 | 1 | umhos/cm | | 1 | | 07/31/2023 | 21:43 | amm | SM 4500-H+B | 08/01/2023 | 01:16 | amm |
| Solids, Total Dissolved (TDS) | 150 | 20 | mg/L | | 1 | | 07/20/2023 | 16:15 | ctl | SM 2540 C | 07/21/2023 | 11:10 | ctl |

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

August 11, 2023

Sentry Ag Service

Lab No. : VI 2344654
Customer No. : 4019696

Quality Control - Wet Chem

| Constituent | Method | Date/ID | Type | Units | Conc. | QC Data | DQO | Note |
|--------------------------|----------|--|---|--|---|--|---|------|
| Wet Chem | | | | | | | | |
| E. C. | 2320B | (VI 2344710-008) (VI 2344724-001) | Dup Dup | umhos/cm umhos/cm | | 0.3% 0.1% | 5 5 | |
| Solids, Total Dissolved | 2540CE | 07/20/2023:207946CTL (STK2339578-001) (STK2339578-001) | Blank LCS Dup Dup | mg/L mg/L mg/L mg/L | 993.7 | ND 102% 0.4% 1.98% | <20 90-110 5 5 | |
| | 2540CE | 07/21/2023:207986CTL (SP 2312256-003) (SP 2312256-003) | Blank LCS Dup Dup | mg/L mg/L mg/L mg/L | 991.5 | ND 101% 0.2% 3.10% | <20 90-110 5 5 | |
| Nitrogen, Total Kjeldahl | 351.2 | 08/08/2023:208707STA (VI 2344654-002) (VI 2344644-003) | Blank LCS MS MSDP MS MSDP MSRPD | mg/L mg/L mg/L mg/L mg/L mg/L mg/L | 12.00 12.00 12.00 0.3% 12.00 12.00 0.3% | ND 91.3% 85.5% 85.3% 82.8% 82.5% ≤27 | <0.5 73-124 54-136 54-136 54-136 54-136 ≤27 | |
| Nitrate + Nitrite as N | 4500NO3F | 07/19/2023:207926LFS (STK2339515-001) | Blank LCS MS MSD MSRPD | mg/L mg/L mg/L mg/L mg/L | 11.22 5.609 5.609 5.609 5.609 | ND 97.8% 91.9% 94.5% 1.2% | <0.4 80-120 66-125 66-125 ≤30.4 | |
| Nitrate Nitrogen | 4500NO3F | 07/19/2023:207926LFS (STK2339515-001) | Blank LCS MS MSD MSRPD | mg/L mg/L mg/L mg/L mg/L | 11.22 5.609 5.609 5.609 5.609 | ND 97.8% 91.9% 94.5% 1.2% | <0.4 80-120 66-125 66-125 ≤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 analyted. 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.



2344654

Laboratory Analysis Work Order

3055

SITE NAME: PhoenixLABORATORY: VT | FGL 4-19696Billing: 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, NO₃N (Dom)
 W2 EC, NO₃N, TDS, TN (Irr)
 W3 NH₄-N (Ammonium)
 W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 W6 NO₃N, NO₂ (Dom ILRP, Annually)
 W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 W8 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
 L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
 L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, 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, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
 S2 S1 + CEC, CaCO₃, OM, C:N, TN
 S3 NO₃N, NH₄N
 S4 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, 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: _____

| Sample ID | Description | Analysis | Date/Time | Sampled by | SAS USE ONLY: FIELD TESTS | | |
|-----------|-------------|----------|-----------|--------------|---------------------------|----|------|
| | | | | | NH ₃ N * | pH | Temp |
| 1 | Dairy Irr | IW | W2 | 7/18/23 8:15 | Jeremy | — | |
| 2 | Golf 3 | IW | W2 | 7/18/23 8:20 | " | — | |
| 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 st | Sentry Ag Services | SAS | | 7/18/23 3:17pm |
| 2 nd | SRO | FGL | 7/18/23 1517 | |
| 3 rd | SRO | FGL | | 7/18/23 1730 |
| 4 th | GLS | GLS | 7/18/23 1730 | |

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: _____

R01
5.3°CGLS
MC
1100

7/19/23

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: 20° / 5.3° / _____ / _____ / _____

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.

- | | | | |
|---|---|----|-----|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="checkbox"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="checkbox"/> Yes | No | |
| 5. VOAs checked for Headspace? | <input checked="" type="checkbox"/> Yes | No | N/A |
| 6. Were sample custody seals intact? | <input checked="" type="checkbox"/> Yes | No | N/A |
| 7. If required, was sample split for pH analysis? | <input checked="" type="checkbox"/> Yes | No | |
| 8. Were all analyses within holding times at time of receipt? | <input checked="" type="checkbox"/> Yes | No | |
| 9. Verify sample date, time and sampler name | <input checked="" type="checkbox"/> Yes | No | N/A |

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): SRC

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3° / _____ / _____ / _____ / _____
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers: 59787246
6815

- | | | | |
|---|---|----|-----|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="checkbox"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="checkbox"/> Yes | No | |
| 5. Were sample custody seals intact? | <input checked="" type="checkbox"/> 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? | <input checked="" type="checkbox"/> Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | <input checked="" type="checkbox"/> Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved? <small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <input checked="" type="checkbox"/> Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | <input checked="" type="checkbox"/> Yes | No | N/A |
| 5. Have rush or project due dates been checked and accepted? | <input checked="" type="checkbox"/> Yes | No | N/A |
| 6. Were all analyses within holding times at time of receipt? | <input checked="" type="checkbox"/> 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): MDC

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: _____ | (4019696) |
| Initiated By: _____ | Sentry Ag Service |
| Problem: _____ | VI 2344654 |
| Resolution: _____ | |

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

