**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:** Vlot Calf Ranch

Physical address of dairy:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 10/01/2000

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

X020-X120-X003-XXXX

**B. OPERATORS**

Vlot, Case

Operator name: Vlot, Case

Telephone no.: (209) 665-6926 Landline; (209) 974-4300 Cellular

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Mailing Address Number and Street | City | State | Zip Code |

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

**C. OWNERS**

Vlot, Case

Legal owner name: Vlot, Case

Telephone no.: (209) 665-6926 Landline; (209) 974-4300 Cellular

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Mailing Address Number and Street | City | State | Zip Code |

**This owner is responsible for paying permit fees.**

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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 | 0 | 700 | 300 | 5,200 | 0 |
| Number under roof | 3,770 | 510 | 0 | 0 | 0 | 19,600 |
| Maximum number | 4,000 | 550 | 800 | 350 | 5,500 | 20,000 |
| Average number | 3,770 | 510 | 700 | 300 | 5,200 | 19,600 |
| Avg live weight (lbs) | 1,400 | 1,400 | 900 | 650 | | |

Predominant milk cow breed: Holstein

Average milk production: 70 *pounds per cow per day*

## B. MANURE GENERATED

Total manure excreted by the herd: 199,927.82 *tons per reporting period*

Total nitrogen from manure: 2,719,637.98 *lbs per reporting period*

After ammonia losses (30% loss applied): 1,903,746.59 *lbs per reporting period*

Total phosphorus from manure: 332,013.13 *lbs per reporting period*

Total potassium from manure: 721,989.78 *lbs per reporting period*

Total salt from manure: 1,892,379.00 *lbs per reporting period*

## C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 214,188,000 *gallons*

Total nitrogen generated: 749,436.46 *lbs*

Total phosphorus generated: 126,548.23 *lbs*

Total potassium generated: 874,121.36 *lbs*

Total salt generated: 4,808,304.72 *lbs*

| | | |
|---|---|---|
| | 181,350,000 | *gallons applied* |
| + | 32,838,000 | *gallons exported* |
| - | 0 | *gallons imported* |
| = | 214,188,000 | *gallons generated* |

## D. FRESH WATER SOURCES

| Source Description | Type |
|---|---|
| Bypass/Canal | Surface water |
| Canal | Surface water |
| CCF 11 | Ground water |
| CCF 16 | Ground water |
| CCF 18 | Ground water |

| Source Description | Type |
|---|---|
| CCF 19 | Ground water |
| CCF 2 | Ground water |
| CCF 20 | Ground water |
| CCF 21 | Ground water |
| CCF 3 | Ground water |
| CCF 8 | Ground water |
| CCF 9 | Ground water |
| CCF Canal | Ground water |
| VCR 1 | Ground water |
| VCR 10 | Ground water |
| VCR 11 | Ground water |
| VCR 12 | Ground water |
| VCR 18 | Ground water |
| VCR 2 | Ground water |
| VCR 21 | Ground water |
| VCR 22 | Ground water |
| VCR 23 | Ground water |
| VCR 24 | Ground water |
| VCR 25 | Ground water |
| VCR 26 | Ground water |
| VCR 28 | Ground water |
| VCR 3 | Ground water |
| VCR 30 | Ground water |
| VCR 31 | Ground water |
| VCR 32 | Ground water |
| VCR 33 | Ground water |
| VCR 34 | Ground water |
| VCR 4 | Ground water |
| VCR 6 | 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.*

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| Date | Material type / Description | Quantity | Reporting basis | Moisture (%) | N (%) | P (%) | K (%) | Salt (%) |
|---|---|---|---|---|---|---|---|---|
| 04/10/2023 | Solid commercial fertilizer<br>*UN 32* | 143.01 *ton* | As-is | 0.1 | 32.000000 | 0.000000 | 0.000000 | 0.000000 |
| 05/13/2023 | Solid commercial fertilizer<br>*10-34-0* | 29.42 *ton* | As-is | 0.1 | 10.000000 | 34.000000 | 0.000000 | 0.000000 |
| 07/03/2023 | Solid commercial fertilizer<br>*UN 32* | 66.96 *ton* | As-is | 0.1 | 32.000000 | 0.000000 | 0.000000 | 0.000000 |

| Material type | Total N (lbs) | Total P (lbs) | Total K (lbs) | Total salt (lbs) |
|---|---|---|---|---|
| Commercial fertilizer / Other | 140,264.80 | 20,005.60 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Total imports for all materials | 140,264.80 | 20,005.60 | 0.00 | 0.00 |

## G. NUTRIENT EXPORTS

| Date | Material type | Quantity | Reporting basis | Moisture (%) | Density (lbs/cu ft) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/31/2023 | Separator solids | 3,000.00 *ton* | Dry-weight | 56.2 | | 21,300.00 | 4,000.00 | 5,600.00 | | 49.40 |
| 06/21/2023 | Separator solids | 4,830.00 *ton* | Dry-weight | 56.2 | | 21,300.00 | 4,000.00 | 5,600.00 | | 49.40 |
| 11/03/2023 | Separator solids | 4,326.00 *ton* | Dry-weight | 77.2 | | 25,600.00 | 5,700.00 | 9,600.00 | | 0.00 |

| Date | Material type | Quantity | Kjeldahl-N (mg/L) | Ammonium-N (mg/L) | Ammonia-N (mg/L) | Nitrate-N (mg/L) | P (mg/L) | K (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 03/15/2023 | Process wastewater | 10,000,000.00 *gal* | 450.00 | 219.00 | 0.00 | 0.70 | 76.70 | 511.00 | | 2,970 |
| 03/15/2023 | Process wastewater | 1,700,000.00 *gal* | 450.00 | 219.00 | 0.00 | 0.70 | 76.70 | 511.00 | | 2,970 |
| 03/29/2023 | Process wastewater | 10,000,000.00 *gal* | 450.00 | 219.00 | 0.00 | 0.70 | 76.70 | 511.00 | | 2,970 |
| 03/29/2023 | Process wastewater | 10,000,000.00 *gal* | 450.00 | 219.00 | 0.00 | 0.70 | 76.70 | 511.00 | | 2,970 |
| 03/29/2023 | Process wastewater | 1,138,000.00 *gal* | 450.00 | 219.00 | 0.00 | 0.70 | 76.70 | 511.00 | | 2,970 |

| Material type | Total N (lbs) | Total P (lbs) | Total K (lbs) | Total salt (lbs) |
|---|---|---|---|---|
| Dry manure | 196,598.40 | 38,680.46 | 57,348.35 | 3,388,385.52 |
| Process wastewater | 123,506.72 | 21,018.34 | 140,030.92 | 813,878.34 |
| Total exports for all materials | 320,105.12 | 59,698.80 | 197,379.26 | 4,202,263.86 |

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APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

| Field name | Controlled acres | Cropable acres | Total harvests | Type of waste applied | Parcel number |
|---|---|---|---|---|---|
| Field 1 | 69 | 69 | 2 | process wastewater | X074-X016-X050-XXXX |
| Field 10 | 128 | 128 | 1 | process wastewater | X020-X120-X011-XXXX |
| Field 11 | 36 | 36 | 0 | none | X020-X120-X003-XXXX |
| Field 12 | 34 | 34 | 2 | process wastewater | X020-X120-X003-XXXX |
| Field 13 | 36 | 36 | 2 | process wastewater | X020-X120-X003-XXXX |
| Field 14 | 40 | 34 | 2 | process wastewater | X020-X120-X003-XXXX |
| Field 15 | 17 | 17 | 1 | process wastewater | X020-X120-X003-XXXX |
| Field 16 | 31 | 31 | 2 | process wastewater | X020-X120-X003-XXXX |
| Field 17E | 81 | 81 | 2 | process wastewater | X020-X120-X003-XXXX |
| Field 18W | 86 | 86 | 2 | process wastewater | X020-X120-X003-XXXX |
| Field 19 | 92 | 92 | 1 | none | X020-X150-X010-XXXX |
| Field 2 | 77 | 77 | 2 | process wastewater | X020-X090-X002-XXXX<br>X074-X016-X050-XXXX |
| Field 20 | 77 | 77 | 1 | none | X020-X150-X006-XXXX<br>X020-X150-X010-XXXX |
| Field 21 | 57 | 57 | 2 | process wastewater | X020-X150-X010-XXXX |
| Field 22 | 75 | 75 | 1 | process wastewater | X020-X150-X010-XXXX |
| Field 23W | 69 | 68 | 2 | process wastewater | X020-X160-X015-XXXX |
| Field 24E | 70 | 70 | 2 | process wastewater | X020-X150-X015-XXXX |
| Field 3 | 72 | 72 | 1 | none | X020-X090-X002-XXXX<br>X074-X016-X050-XXXX |
| Field 4 | 80 | 77 | 2 | process wastewater | X020-X090-X003-XXXX |
| Field 5 | 77 | 77 | 2 | process wastewater | X020-X090-X003-XXXX |
| Field 6 | 30 | 30 | 1 | none | X020-X120-X004-XXXX |
| Field 7 | 96 | 95 | 2 | process wastewater | X020-X120-X004-XXXX |
| Field 8 | 78 | 78 | 2 | process wastewater | X020-X120-X011-XXXX |
| Field 9 | 78 | 78 | 1 | process wastewater | X020-X120-X011-XXXX |
| Field CCF 1 | 76 | 76 | 2 | manure | X020-X181-X005-XXXX |
| Field CCF 10 | 80 | 80 | 1 | none | X020-X170-X008-XXXX |
| Field CCF 11 | 54 | 54 | 1 | none | X020-X170-X008-XXXX |
| Field CCF 12 | 32 | 32 | 1 | none | X020-X170-X010-XXXX |
| Field CCF 13 | 17 | 17 | 1 | none | X020-X170-X008-XXXX |
| Field CCF 14 | 107 | 107 | 1 | none | X020-X170-X008-XXXX |
| Field CCF 1-B | 75 | 73 | 2 | manure | X020-X020-X003-XXXX |

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| Field name | Controlled acres | Cropable acres | Total harvests | Type of waste applied | Parcel number |
|---|---|---|---|---|---|
| | | | | | X020-X181-X003-XXXX |
| Field CCF 2 | 77 | 76 | 2 | manure | X020-X181-X005-XXXX |
| Field CCF 3 | 76 | 76 | 2 | manure | X020-X181-X005-XXXX |
| Field CCF 4 | 75 | 75 | 2 | manure | X020-X181-X005-XXXX |
| Field CCF 5 | 49 | 49 | 1 | none | X020-X181-X005-XXXX |
| Field CCF 6 | 23 | 23 | 1 | none | X020-X181-X005-XXXX |
| Field CCF 7 | 70 | 70 | 1 | none | X020-X181-X005-XXXX |
| Field CCF 8 | 55 | 55 | 1 | none | X020-X200-X001-XXXX |
| Field CCF 9 | 63 | 63 | 1 | none | X020-X170-X008-XXXX<br>X020-X200-X001-XXXX |
| Field CCF Home 1 | 52 | 50 | 2 | manure | X020-X140-X003-XXXX |
| Field CCF Home 2 | 54 | 52 | 2 | manure | X020-X140-X003-XXXX |
| Field CCF Home 3 | 49 | 46 | 2 | manure | X020-X140-X003-XXXX |
| Field CCF Home 4 | 50 | 50 | 2 | manure | X020-X140-X003-XXXX |
| Totals for areas that were used for application | 1,863 | 1,842 | 52 | | |
| Totals for areas that were not used for application | 857 | 857 | 14 | | |
| Land application area totals | 2,720 | 2,699 | 66 | | |

## B. CROPS AND HARVESTS

Field 1

Field name: Field 1

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

Crop: Wheat, silage, soft dough Acres planted: 69 Plant date: 11/04/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/15/2023 | 1,559.00 *ton* | As-is | | 64.7 | 6,200.00 | 1,100.00 | 8,700.00 | | 11.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 22.59 | 280.17 | 49.71 | 393.14 | 1,770.62 |

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## Field 1

### 05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 69 Plant date: 05/31/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/19/2023 | 2,225.00 *ton* | As-is | | 73.8 | 4,200.00 | 700.00 | 4,900.00 | | 8.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 32.25 | 270.87 | 45.14 | 316.01 | 1,385.56 |

## Field 10

Field name: Field 10

### 10/28/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 128 Plant date: 10/28/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/15/2023 | 1,153.12 *ton* | As-is | | 8.3 | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 9.01 | 616.20 | 59.46 | 715.29 | 1,724.90 |

## Field 12

Field name: Field 12

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## Field 12

### 11/20/2022: Alfalfa/ Grass Mix

Crop: Alfalfa/ Grass Mix Acres planted: 34 Plant date: 11/20/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/17/2023 | 521.00 *ton* | As-is | | 70.3 | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 280.00 | 36.80 | 336.00 | 0.00 |
| Total actual harvest content | 15.32 | 171.62 | 30.65 | 226.79 | 1,192.39 |

### 06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 34 Plant date: 06/15/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/01/2023 | 757.00 *ton* | As-is | | 64.6 | 4,500.00 | 800.00 | 7,900.00 | | 6.80 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 22.26 | 200.38 | 35.62 | 351.78 | 1,071.91 |

## Field 13

Field name: Field 13

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

Crop: Wheat, silage, soft dough Acres planted: 36 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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 722.00 *ton* | As-is | | 44.5 | 7,300.00 | 1,600.00 | 10,000.00 | | 7.60 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 20.06 | 292.81 | 64.18 | 401.11 | 1,691.89 |

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## Field 13

### 06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/16/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/01/2023 | 1,264.00 *ton* | As-is | | 70.3 | 4,000.00 | 800.00 | 5,800.00 | | 7.80 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 35.11 | 280.89 | 56.18 | 407.29 | 1,626.77 |

## Field 14

Field name: Field 14

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

Crop: Wheat, silage, soft dough Acres planted: 34 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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 790.00 *ton* | As-is | | 55.0 | 7,000.00 | 1,700.00 | 11,100.00 | | 12.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 23.24 | 325.29 | 79.00 | 515.82 | 2,509.41 |

### 05/28/2023: Grass Blend (TEFT)

Crop: Grass Blend (TEFT) Acres planted: 34 Plant date: 05/28/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 08/16/2023 | 154.00 *ton* | As-is | | 3.2 | 9,800.00 | 3,800.00 | 40,500.00 | | 14.98 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 6.00 | 192.00 | 27.60 | 252.00 | 0.00 |
| Total actual harvest content | 4.53 | 88.78 | 34.42 | 366.88 | 1,313.59 |

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## Field 15

Field name: Field 15

### 11/21/2022: Alfalfa/ Grass Mix

Crop: Alfalfa/ Grass Mix  Acres planted: 17  Plant date: 11/21/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 216.00 *ton* | As-is | | 70.3 | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 280.00 | 36.80 | 336.00 | 0.00 |
| Total actual harvest content | 12.71 | 142.31 | 25.41 | 188.05 | 988.70 |

## Field 16

Field name: Field 16

### 10/01/2017: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 31  Plant date: 10/01/2017

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/18/2023 | 153.24 *ton* | As-is | | 8.7 | 34,500.00 | 2,700.00 | 31,600.00 | | 9.79 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 4.94 | 341.08 | 26.69 | 312.41 | 883.68 |

### 11/21/2022: Alfalfa/ Grass Mix

Crop: Alfalfa/ Grass Mix  Acres planted: 31  Plant date: 11/21/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/15/2023 | 395.00 *ton* | As-is | | 70.3 | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 280.00 | 36.80 | 336.00 | 0.00 |
| Total actual harvest content | 12.74 | 142.71 | 25.48 | 188.58 | 991.50 |

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## Field 17E

Field name: Field 17E

### 11/06/2022: Rye Grass

Crop: Rye Grass Acres planted: 81 Plant date: 11/06/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/13/2023 | 1,140.00 *ton* | As-is | | 53.2 | 11,400.00 | 1,800.00 | 18,900.00 | | 13.40 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 302.40 | 54.00 | 414.00 | 0.00 |
| Total actual harvest content | 14.07 | 320.89 | 50.67 | 532.00 | 1,765.23 |

### 06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 81 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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/01/2023 | 2,259.00 *ton* | As-is | | 65.9 | 4,400.00 | 700.00 | 4,600.00 | | 7.50 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 27.89 | 245.42 | 39.04 | 256.58 | 1,426.52 |

## Field 18W

Field name: Field 18W

### 11/23/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 86 Plant date: 11/23/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/01/2023 | 1,589.00 *ton* | As-is | | 72.5 | 6,400.00 | 1,200.00 | 1,100.00 | | 11.40 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 18.48 | 236.50 | 44.34 | 40.65 | 1,158.49 |

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## Field 18W

### 05/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 86 Plant date: 05/17/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 08/25/2023 | 2,573.00 *ton* | As-is | | 65.7 | 4,500.00 | 700.00 | 6,300.00 | | 7.30 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 29.92 | 269.27 | 41.89 | 376.97 | 1,498.26 |

## Field 19

Field name: Field 19

### 10/01/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 92 Plant date: 10/01/2020

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/10/2023 | 692.16 *ton* | As-is | | 8.7 | 34,500.00 | 2,700.00 | 31,600.00 | | 9.79 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 7.52 | 519.12 | 40.63 | 475.48 | 1,344.94 |

## Field 2

Field name: Field 2

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## Field 2

### 11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/05/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/10/2023 | 1,624.00 *ton* | As-is | | 55.4 | 7,600.00 | 1,300.00 | 8,600.00 | | 9.80 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 21.09 | 320.58 | 54.84 | 362.76 | 1,843.68 |

### 06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/08/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/19/2023 | 2,694.00 *ton* | As-is | | 66.3 | 4,800.00 | 900.00 | 5,900.00 | | 7.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 34.99 | 335.88 | 62.98 | 412.85 | 1,862.92 |

## Field 20

Field name: Field 20

### 10/01/2018: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 77 Plant date: 10/01/2018

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/02/2023 | 659.11 *ton* | As-is | | 8.7 | 34,500.00 | 2,700.00 | 31,600.00 | | 9.79 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 8.56 | 590.63 | 46.22 | 540.98 | 1,530.21 |

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## Field 21

Field name: Field 21

### 09/01/2016: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 57  Plant date: 09/01/2016

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/13/2023 | 363.68 *ton* | As-is | | 8.0 | 33,800.00 | 3,100.00 | 39,000.00 | | 11.12 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 6.38 | 431.31 | 39.56 | 497.67 | 1,305.47 |

### 11/29/2022: Alfalfa/ Grass Mix

Crop: Alfalfa/ Grass Mix  Acres planted: 57  Plant date: 11/29/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/18/2023 | 781.00 *ton* | As-is | | 70.3 | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 280.00 | 36.80 | 336.00 | 0.00 |
| Total actual harvest content | 13.70 | 153.46 | 27.40 | 202.79 | 1,066.19 |

## Field 22

Field name: Field 22

### 10/01/2019: Alfalfa, hay

Crop: Alfalfa, hay  Acres planted: 75  Plant date: 10/01/2019

| 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 | 650.02 *ton* | As-is | | 8.0 | 33,800.00 | 3,100.00 | 39,000.00 | | 11.12 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 8.67 | 585.88 | 53.73 | 676.02 | 1,773.32 |

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## Field 23W

Field name: Field 23W

### 11/06/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 68  Plant date: 11/06/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/12/2023 | 1,433.00 *ton* | As-is | | 66.5 | 3,400.00 | 800.00 | 5,400.00 | | 10.60 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 21.07 | 143.30 | 33.72 | 227.59 | 1,496.64 |

### 06/12/2023: Corn, silage

Crop: Corn, silage  Acres planted: 68  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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/01/2023 | 2,153.00 *ton* | As-is | | 63.9 | 3,700.00 | 800.00 | 4,200.00 | | 6.70 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 31.66 | 234.30 | 50.66 | 265.96 | 1,531.61 |

## Field 24E

Field name: Field 24E

### 11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 70  Plant date: 11/07/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/12/2023 | 1,369.00 *ton* | As-is | | 58.5 | 4,600.00 | 900.00 | 5,900.00 | | 10.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 19.56 | 179.93 | 35.20 | 230.77 | 1,769.33 |

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## Field 24E

### 06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 Plant date: 06/01/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/02/2023 | 2,648.00 *ton* | As-is | | 58.8 | 4,700.00 | 800.00 | 4,900.00 | | 6.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 37.83 | 355.59 | 60.53 | 370.72 | 1,870.24 |

## Field 3

Field name: Field 3

### 10/05/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 72 Plant date: 10/05/2021

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/30/2023 | 692.37 *ton* | As-is | | 8.3 | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 9.62 | 657.75 | 63.47 | 763.53 | 1,841.22 |

## Field 4

Field name: Field 4

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## Field 4

### 11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/03/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/15/2023 | 1,127.00 *ton* | As-is | | 65.1 | 7,200.00 | 1,200.00 | 7,500.00 | | 13.80 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 14.64 | 210.76 | 35.13 | 219.55 | 1,409.83 |

### 05/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 05/10/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 08/24/2023 | 2,210.00 *ton* | As-is | | 62.9 | 4,900.00 | 1,100.00 | 8,300.00 | | 8.60 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 28.70 | 281.27 | 63.14 | 476.44 | 1,831.49 |

## Field 5

Field name: Field 5

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

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

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/01/2023 | 1,702.00 *ton* | As-is | | 74.7 | 7,000.00 | 1,400.00 | 11,400.00 | | 12.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 22.10 | 309.45 | 61.89 | 503.97 | 1,353.33 |

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## Field 5

### 05/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 05/24/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/12/2023 | 2,242.00 *ton* | As-is | | 65.2 | 5,000.00 | 1,000.00 | 6,500.00 | | 6.70 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 29.12 | 291.17 | 58.23 | 378.52 | 1,357.78 |

## Field 6

Field name: Field 6

### 10/01/2018: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 30 Plant date: 10/01/2018

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/17/2023 | 306.87 *ton* | As-is | | 8.3 | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 10.23 | 699.66 | 67.51 | 812.18 | 1,958.54 |

## Field 7

Field name: Field 7

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## Field 7

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

Crop: Wheat, silage, soft dough Acres planted: 95 Plant date: 11/14/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/17/2023 | 1,815.00 *ton* | As-is | | 55.0 | 8,500.00 | 2,100.00 | 13,400.00 | | 10.30 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 19.11 | 324.79 | 80.24 | 512.02 | 1,771.06 |

### 06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 95 Plant date: 06/21/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/01/2023 | 2,969.00 *ton* | As-is | | 69.0 | 4,500.00 | 900.00 | 6,500.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 31.25 | 281.27 | 56.25 | 406.28 | 1,375.74 |

## Field 8

Field name: Field 8

### 11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/08/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/14/2023 | 1,342.00 *ton* | As-is | | 75.0 | 8,700.00 | 1,400.00 | 11,000.00 | | 14.30 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 17.21 | 299.37 | 48.17 | 378.51 | 1,230.17 |

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## Field 8

### 05/05/2023: Corn, silage

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

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 08/24/2023 | 2,308.00 *ton* | As-is | | 67.2 | 5,000.00 | 700.00 | 6,400.00 | | 8.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 29.59 | 295.90 | 41.43 | 378.75 | 1,591.69 |

## Field 9

Field name: Field 9

### 10/01/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 10/01/2020

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/29/2023 | 655.15 *ton* | As-is | | 8.3 | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 8.00 | 497.60 | 41.60 | 347.20 | 0.00 |
| Total actual harvest content | 8.40 | 574.52 | 55.44 | 666.91 | 1,608.22 |

## Field CCF 1

Field name: Field CCF 1

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## Field CCF 1

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

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 10/29/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/14/2023 | 1,281.00 *ton* | As-is | | 61.4 | 3,700.00 | 700.00 | 5,000.00 | | 9.30 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 16.86 | 124.73 | 23.60 | 168.55 | 1,210.14 |

### 05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 05/30/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/05/2023 | 1,704.00 *ton* | As-is | | 68.2 | 3,600.00 | 800.00 | 3,100.00 | | 7.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 22.42 | 161.43 | 35.87 | 139.01 | 998.19 |

## Field CCF 10

Field name: Field CCF 10

### 12/01/2008: Almond, in shell

Crop: Almond, in shell Acres planted: 80 Plant date: 12/01/2008

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/14/2023 | 281.30 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 3.52 | 95.64 | 9.14 | 94.24 | 452.87 |

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## Field CCF 11

Field name: Field CCF 11

### 12/01/2008: Almond, in shell

Crop: Almond, in shell Acres planted: 54 Plant date: 12/01/2008

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/13/2023 | 222.74 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 4.12 | 112.19 | 10.72 | 110.55 | 531.25 |

## Field CCF 12

Field name: Field CCF 12

### 12/01/2008: Almond, in shell

Crop: Almond, in shell Acres planted: 32 Plant date: 12/01/2008

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/13/2023 | 132.00 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 4.13 | 112.20 | 10.73 | 110.55 | 531.28 |

## Field CCF 13

Field name: Field CCF 13

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## Field CCF 13

### 12/01/2008: Almond, in shell

Crop: Almond, in shell Acres planted: 17 Plant date: 12/01/2008

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/16/2023 | 64.20 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 3.78 | 102.72 | 9.82 | 101.21 | 486.39 |

## Field CCF 14

Field name: Field CCF 14

### 12/01/2016: Almond, in shell

Crop: Almond, in shell Acres planted: 107 Plant date: 12/01/2016

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/06/2023 | 507.64 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 4.74 | 129.04 | 12.34 | 127.15 | 611.04 |

## Field CCF 1-B

Field name: Field CCF 1-B

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## Field CCF 1-B

### 10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 73 Plant date: 10/31/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/30/2023 | 1,143.00 *ton* | As-is | | 66.7 | 6,000.00 | 600.00 | 6,800.00 | | 11.50 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 15.66 | 187.89 | 18.79 | 212.94 | 1,199.21 |

### 05/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 05/20/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/12/2023 | 1,811.00 *ton* | As-is | | 65.4 | 3,900.00 | 900.00 | 3,600.00 | | 7.70 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 24.81 | 193.50 | 44.65 | 178.62 | 1,321.88 |

## Field CCF 2

Field name: Field CCF 2

### 10/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 10/27/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/15/2023 | 1,317.00 *ton* | As-is | | 64.1 | 3,100.00 | 700.00 | 4,300.00 | | 11.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 17.33 | 107.44 | 24.26 | 149.03 | 1,368.64 |

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## Field CCF 2

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

Crop: Corn, silage Acres planted: 76 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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/02/2023 | 1,699.00 *ton* | As-is | | 63.6 | 4,400.00 | 1,000.00 | 3,400.00 | | 4.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 22.36 | 196.73 | 44.71 | 152.02 | 683.53 |

## Field CCF 3

Field name: Field CCF 3

### 10/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 10/27/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/16/2023 | 1,247.00 *ton* | As-is | | 65.4 | 2,900.00 | 600.00 | 4,300.00 | | 10.60 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 16.41 | 95.17 | 19.69 | 141.11 | 1,203.55 |

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

Crop: Corn, silage Acres planted: 76 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 (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/02/2023 | 1,712.00 *ton* | As-is | | 65.0 | 4,200.00 | 800.00 | 2,600.00 | | 4.80 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 22.53 | 189.22 | 36.04 | 117.14 | 756.88 |

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## Field CCF 4

Field name: Field CCF 4

### 10/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 75  Plant date: 10/25/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/30/2023 | 1,133.00 *ton* | As-is | | 73.2 | 8,200.00 | 1,300.00 | 11,800.00 | | 11.30 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 15.11 | 247.75 | 39.28 | 356.52 | 914.98 |

### 05/18/2023: Corn, silage

Crop: Corn, silage  Acres planted: 75  Plant date: 05/18/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 08/24/2023 | 2,131.00 *ton* | As-is | | 62.8 | 4,700.00 | 1,400.00 | 5,100.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 28.41 | 267.09 | 79.56 | 289.82 | 1,500.91 |

## Field CCF 5

Field name: Field CCF 5

### 12/01/2020: Almond, in shell

Crop: Almond, in shell  Acres planted: 49  Plant date: 12/01/2020

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 10/14/2023 | 212.65 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 145.00 | 0.00 |
| Total actual harvest content | 4.34 | 118.04 | 11.28 | 116.31 | 558.94 |

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## Field CCF 6

Field name: Field CCF 6

### 12/01/2020: Almond, in shell

Crop: Almond, in shell  Acres planted: 23  Plant date: 12/01/2020

| 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 | 89.61 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 3.90 | 105.97 | 10.13 | 104.42 | 501.79 |

## Field CCF 7

Field name: Field CCF 7

### 12/01/2014: Almond, in shell

Crop: Almond, in shell  Acres planted: 70  Plant date: 12/01/2014

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/09/2023 | 316.57 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 4.52 | 123.01 | 11.76 | 121.20 | 582.46 |

## Field CCF 8

Field name: Field CCF 8

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## Field CCF 8

### 12/01/2007: Almond, in shell

Crop: Almond, in shell Acres planted: 55 Plant date: 12/01/2007

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/16/2023 | 172.13 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 3.13 | 85.13 | 8.14 | 83.87 | 403.08 |

## Field CCF 9

Field name: Field CCF 9

### 12/01/2007: Almond, in shell

Crop: Almond, in shell Acres planted: 63 Plant date: 12/01/2007

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 11/12/2023 | 189.33 *ton* | As-is | | 9.3 | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 5.00 | 195.00 | 30.00 | 148.50 | 0.00 |
| Total actual harvest content | 3.01 | 81.74 | 7.81 | 80.54 | 387.06 |

## Field CCF Home 1

Field name: Field CCF Home 1

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## Field CCF Home 1

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

Crop: Wheat, silage, soft dough  Acres planted: 50  Plant date: 11/11/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/17/2023 | 798.00 *ton* | As-is | | 69.6 | 5,300.00 | 1,000.00 | 9,100.00 | | 12.70 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 15.96 | 169.18 | 31.92 | 290.47 | 1,232.37 |

### 05/13/2023: Corn, silage

Crop: Corn, silage  Acres planted: 50  Plant date: 05/13/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 08/24/2023 | 1,089.00 *ton* | As-is | | 64.8 | 4,100.00 | 1,000.00 | 5,100.00 | | 7.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 21.78 | 178.60 | 43.56 | 222.16 | 1,211.32 |

## Field CCF Home 2

Field name: Field CCF Home 2

### 11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 52  Plant date: 11/08/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 04/30/2023 | 689.00 *ton* | As-is | | 64.9 | 6,100.00 | 3,000.00 | 18,400.00 | | 12.20 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 13.25 | 161.65 | 79.50 | 487.60 | 1,134.78 |

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## Field CCF Home 2

### 05/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 52 Plant date: 05/22/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/18/2023 | 1,384.00 *ton* | As-is | | 62.6 | 5,300.00 | 1,100.00 | 4,700.00 | | 9.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 26.62 | 282.12 | 58.55 | 250.18 | 1,791.75 |

## Field CCF Home 3

Field name: Field CCF Home 3

### 11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 46 Plant date: 11/02/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/15/2023 | 712.00 *ton* | As-is | | 64.0 | 3,500.00 | 900.00 | 5,200.00 | | 10.10 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 15.48 | 108.35 | 27.86 | 160.97 | 1,125.58 |

### 05/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 46 Plant date: 05/29/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/18/2023 | 1,416.00 *ton* | As-is | | 62.6 | 5,300.00 | 1,100.00 | 4,700.00 | | 9.00 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 30.78 | 326.30 | 67.72 | 289.36 | 2,072.29 |

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## Field CCF Home 4

Field name: Field CCF Home 4

### 11/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough  Acres planted: 50  Plant date: 11/01/2022

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 05/15/2023 | 680.00 *ton* | As-is | | 57.8 | 3,800.00 | 1,000.00 | 5,900.00 | | 9.90 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 18.00 | 243.00 | 41.40 | 149.40 | 0.00 |
| Total actual harvest content | 13.60 | 103.36 | 27.20 | 160.48 | 1,136.36 |

### 06/05/2023: Corn, silage

Crop: Corn, silage  Acres planted: 50  Plant date: 06/05/2023

| Harvest date | Yield | Reporting basis | Density (lbs/cu ft) | Moisture (%) | N (mg/kg) | P (mg/kg) | K (mg/kg) | Salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|
| 09/23/2023 | 1,323.00 *ton* | As-is | | 57.6 | 4,800.00 | 1,200.00 | 5,100.00 | | 7.60 |

| | Yield (tons/acre) | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Salt (lbs/acre) |
|---|---|---|---|---|---|
| Anticipated harvest content | 28.00 | 285.60 | 50.40 | 184.80 | 0.00 |
| Total actual harvest content | 26.46 | 254.02 | 63.50 | 269.89 | 1,705.29 |

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NUTRIENT BUDGET

## A. LAND APPLICATIONS

Field 1 - 11/04/2022: Wheat, silage, soft dough

Field name: Field 1

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/21/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 112.51 | 22.24 | 168.36 | 820.95 | 2,301,000.00 *gal* |
| VCR 4 | Ground water | 21.07 | 0.00 | 0.00 | 840.85 | 8,583,300.00 *gal* |
| Application event totals | | 133.58 | 22.24 | 168.36 | 1,661.79 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/02/2023 | Surface (irrigation) | No precipitation | Light rain | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 10 | Ground water | 1.07 | 0.00 | 0.00 | 57.43 | 1,187,220.00 *gal* |
| VCR 33 | Ground water | 0.92 | 0.00 | 0.00 | 152.38 | 4,980,120.00 *gal* |
| Application event totals | | 1.99 | 0.00 | 0.00 | 209.82 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 102.04 | 17.37 | 115.69 | 672.42 | 1,872,000.00 *gal* |
| VCR 10 | Ground water | 1.43 | 0.00 | 0.00 | 76.99 | 1,591,380.00 *gal* |
| VCR 33 | Ground water | 1.24 | 0.00 | 0.00 | 204.26 | 6,675,480.00 *gal* |
| Application event totals | | 104.71 | 17.37 | 115.69 | 953.66 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 0.90 | 0.00 | 0.00 | 149.14 | 4,874,160.00 *gal* |
| Application event totals | | 0.90 | 0.00 | 0.00 | 149.14 | |

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## Field 1 - 11/04/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/05/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 114.80 | 19.54 | 130.15 | 756.47 | 2,106,000.00 *gal* |
| VCR 33 | Ground water | 1.06 | 0.00 | 0.00 | 175.08 | 5,721,840.00 *gal* |
| Application event totals | | 115.85 | 19.54 | 130.15 | 931.55 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 0.78 | 0.00 | 0.00 | 140.41 | 6,450,000.00 *gal* |
| Application event totals | | 0.78 | 0.00 | 0.00 | 140.41 | |

## Field 1 - 05/31/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 05/31/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 99.33 | 20.55 | 120.90 | 624.87 | 2,808,000.00 *gal* |
| Bypass/Canal | Surface water | 1.31 | 0.00 | 0.00 | 235.11 | 10,800,000.00 *gal* |
| Application event totals | | 100.64 | 20.55 | 120.90 | 859.98 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/31/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

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Field 1 - 05/31/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.54 | 0.00 | 0.00 | 277.56 | 12,750,000.00 *gal* |
| Application event totals | | 1.54 | 0.00 | 0.00 | 277.56 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.29 | 0.00 | 0.00 | 231.85 | 10,650,000.00 *gal* |
| Application event totals | | 1.29 | 0.00 | 0.00 | 231.85 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 152.70 | 21.89 | 160.79 | 907.97 | 2,730,000.00 *gal* |
| Bypass/Canal | Surface water | 1.27 | 0.00 | 0.00 | 228.58 | 10,500,000.00 *gal* |
| Application event totals | | 153.97 | 21.89 | 160.79 | 1,136.55 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 2 | Ground water | 22.70 | 0.00 | 0.00 | 712.57 | 5,214,000.00 *gal* |
| Application event totals | | 22.70 | 0.00 | 0.00 | 712.57 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 10.43 | 0.00 | 0.00 | 416.18 | 4,248,300.00 *gal* |
| VCR 33 | Ground water | 0.96 | 0.00 | 0.00 | 158.87 | 5,192,040.00 *gal* |
| Application event totals | | 11.39 | 0.00 | 0.00 | 575.04 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/23/2023 | 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 |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 18.09 | 0.00 | 0.00 | 721.94 | 7,369,500.00 *gal* |
| Application event totals | | 18.09 | 0.00 | 0.00 | 721.94 | |

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## Field 1 - 05/31/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 0.98 | 0.00 | 0.00 | 162.11 | 5,298,000.00 *gal* |
| Application event totals | | 0.98 | 0.00 | 0.00 | 162.11 | |

## Field 10 - 10/28/2022: Alfalfa, hay

Field name: Field 10

Crop: Alfalfa, hay

Plant date: 10/28/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 175.33 | 29.84 | 198.79 | 1,155.39 | 5,967,000.00 *gal* |
| Application event totals | | 175.33 | 29.84 | 198.79 | 1,155.39 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/23/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.74 | 0.00 | 0.00 | 313.33 | 26,700,000.00 *gal* |
| Application event totals | | 1.74 | 0.00 | 0.00 | 313.33 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.21 | 0.00 | 0.00 | 218.27 | 18,600,000.00 *gal* |
| Application event totals | | 1.21 | 0.00 | 0.00 | 218.27 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.65 | 0.00 | 0.00 | 297.49 | 25,350,000.00 *gal* |
| Application event totals | | 1.65 | 0.00 | 0.00 | 297.49 | |

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## Field 10 - 10/28/2022: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.74 | 0.00 | 0.00 | 313.33 | 26,700,000.00 *gal* |
| Application event totals | | 1.74 | 0.00 | 0.00 | 313.33 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 18 | Ground water | 0.64 | 0.00 | 0.00 | 166.35 | 9,813,600.00 *gal* |
| VCR 22 | Ground water | 7.47 | 0.00 | 0.00 | 291.18 | 6,472,800.00 *gal* |
| Application event totals | | 8.11 | 0.00 | 0.00 | 457.53 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/26/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 246.95 | 35.40 | 260.03 | 1,468.36 | 8,190,000.00 *gal* |
| VCR 21 | Ground water | 5.78 | 0.00 | 0.00 | 234.61 | 6,426,000.00 *gal* |
| VCR 22 | Ground water | 9.01 | 0.00 | 0.00 | 351.42 | 7,812,000.00 *gal* |
| Application event totals | | 261.75 | 35.40 | 260.03 | 2,054.39 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/09/2023 | 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 |
|---|---|---|---|---|---|---|
| VCR 26 | Ground water | 2.19 | 0.00 | 0.00 | 91.06 | 2,182,500.00 *gal* |
| VCR 33 | Ground water | 1.03 | 0.00 | 0.00 | 169.53 | 10,278,120.00 *gal* |
| Application event totals | | 3.22 | 0.00 | 0.00 | 260.60 | |

## Field 12 - 11/20/2022: Alfalfa/ Grass Mix

Field name: Field 12

Crop: Alfalfa/ Grass Mix

Plant date: 11/20/2022

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

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## Field 12 - 11/20/2022: Alfalfa/ Grass Mix

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/03/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 2.06 | 0.00 | 0.00 | 195.10 | 3,271,200.00 *gal* |
| Application event totals | | 2.06 | 0.00 | 0.00 | 195.10 | |

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 185.51 | 31.57 | 210.33 | 1,222.47 | 1,677,000.00 *gal* |
| VCR 28 | Ground water | 5.30 | 0.00 | 0.00 | 501.21 | 8,403,600.00 *gal* |
| Application event totals | | 190.81 | 31.57 | 210.33 | 1,723.68 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/13/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.47 | 0.00 | 0.00 | 265.08 | 6,000,000.00 *gal* |
| Application event totals | | 1.47 | 0.00 | 0.00 | 265.08 | |

## Field 12 - 06/15/2023: Corn, silage

Field name: Field 12

Crop: Corn, silage

Plant date: 06/15/2023

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 92.40 | 19.11 | 112.45 | 581.22 | 1,287,000.00 *gal* |
| VCR 28 | Ground water | 2.35 | 0.00 | 0.00 | 222.01 | 3,722,400.00 *gal* |
| Application event totals | | 94.74 | 19.11 | 112.45 | 803.24 | |

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## Field 12 - 06/15/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/15/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 2.60 | 0.00 | 0.00 | 245.56 | 4,117,200.00 *gal* |
| Application event totals | | 2.60 | 0.00 | 0.00 | 245.56 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/28/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 115.11 | 16.50 | 121.20 | 684.41 | 1,014,000.00 *gal* |
| VCR 11 | Ground water | 34.81 | 0.00 | 0.00 | 709.19 | 2,948,400.00 *gal* |
| Application event totals | | 149.91 | 16.50 | 121.20 | 1,393.60 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/06/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 5.01 | 0.00 | 0.00 | 426.96 | 4,460,400.00 *gal* |
| VCR 28 | Ground water | 2.99 | 0.00 | 0.00 | 282.56 | 4,737,600.00 *gal* |
| Application event totals | | 8.00 | 0.00 | 0.00 | 709.52 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 1.78 | 0.00 | 0.00 | 168.19 | 2,820,000.00 *gal* |
| Application event totals | | 1.78 | 0.00 | 0.00 | 168.19 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 2.38 | 0.00 | 0.00 | 225.38 | 3,778,800.00 *gal* |
| Application event totals | | 2.38 | 0.00 | 0.00 | 225.38 | |

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## Field 12 - 06/15/2023: 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 |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 4.30 | 0.00 | 0.00 | 365.96 | 3,823,200.00 *gal* |
| VCR 28 | Ground water | 2.56 | 0.00 | 0.00 | 242.20 | 4,060,800.00 *gal* |
| Application event totals | | 6.86 | 0.00 | 0.00 | 608.16 | |

## Field 13 - 11/15/2022: Wheat, silage, soft dough

Field name: Field 13

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 |
|---|---|---|---|---|
| 12/13/2022 | Surface (irrigation) | Light rain | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 116.96 | 23.11 | 175.02 | 853.42 | 1,248,000.00 *gal* |
| VCR 28 | Ground water | 2.15 | 0.00 | 0.00 | 203.32 | 3,609,600.00 *gal* |
| Application event totals | | 119.11 | 23.11 | 175.02 | 1,056.74 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/05/2023 | Surface (irrigation) | Light rain | Light rain | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 2.42 | 0.00 | 0.00 | 228.74 | 4,060,800.00 *gal* |
| Application event totals | | 2.42 | 0.00 | 0.00 | 228.74 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| PO | Process wastewater | 110.01 | 18.72 | 124.73 | 724.95 | 1,053,000.00 *gal* |
| VCR 28 | Ground water | 2.12 | 0.00 | 0.00 | 200.15 | 3,553,200.00 *gal* |
| Application event totals | | 112.13 | 18.72 | 124.73 | 925.10 | |

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## Field 13 - 11/15/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/08/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.50 | 0.00 | 0.00 | 269.13 | 6,450,000.00 *gal* |
| Application event totals | | 1.50 | 0.00 | 0.00 | 269.13 | |

| | | | | |
|---|---|---|---|---|
| 04/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 92.55 | 19.14 | 112.64 | 582.20 | 1,365,000.00 *gal* |
| VCR 28 | Ground water | 2.32 | 0.00 | 0.00 | 219.21 | 3,891,600.00 *gal* |
| Application event totals | | 94.87 | 19.14 | 112.64 | 801.41 | |

## Field 13 - 06/16/2023: Corn, silage

Field name: Field 13

Crop: Corn, silage

Plant date: 06/16/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 140.15 | 28.99 | 170.57 | 881.62 | 2,067,000.00 *gal* |
| VCR 28 | Ground water | 2.65 | 0.00 | 0.00 | 250.98 | 4,455,600.00 *gal* |
| Application event totals | | 142.80 | 28.99 | 170.57 | 1,132.60 | |

| | | | | |
|---|---|---|---|---|
| 06/16/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

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Field 13 - 06/16/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 3.33 | 0.00 | 0.00 | 314.52 | 5,583,600.00 *gal* |
| Application event totals | | 3.33 | 0.00 | 0.00 | 314.52 | |

| | | | | |
|---|---|---|---|---|
| 07/23/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 2.54 | 0.00 | 0.00 | 216.02 | 2,389,500.00 *gal* |
| VCR 28 | Ground water | 1.51 | 0.00 | 0.00 | 142.96 | 2,538,000.00 *gal* |
| Application event totals | | 4.05 | 0.00 | 0.00 | 358.98 | |

| | | | | |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 2.89 | 0.00 | 0.00 | 273.22 | 4,850,400.00 *gal* |
| Application event totals | | 2.89 | 0.00 | 0.00 | 273.22 | |

| | | | | |
|---|---|---|---|---|
| 08/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 2.88 | 0.00 | 0.00 | 244.82 | 2,708,100.00 *gal* |
| VCR 28 | Ground water | 1.71 | 0.00 | 0.00 | 162.02 | 2,876,400.00 *gal* |
| Application event totals | | 4.59 | 0.00 | 0.00 | 406.85 | |

| | | | | |
|---|---|---|---|---|
| 08/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 163.07 | 23.38 | 171.70 | 969.58 | 1,521,000.00 *gal* |
| VCR 28 | Ground water | 3.29 | 0.00 | 0.00 | 311.34 | 5,527,200.00 *gal* |
| Application event totals | | 166.36 | 23.38 | 171.70 | 1,280.92 | |

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## Field 13 - 06/16/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 3.21 | 0.00 | 0.00 | 273.63 | 3,026,700.00 *gal* |
| VCR 28 | Ground water | 1.92 | 0.00 | 0.00 | 181.09 | 3,214,800.00 *gal* |
| Application event totals | | 5.13 | 0.00 | 0.00 | 454.71 | |

## Field 14 - 11/16/2022: Wheat, silage, soft dough

Field name: Field 14

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 |
|---|---|---|---|---|
| 09/19/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 26 | Ground water | 4.93 | 0.00 | 0.00 | 204.99 | 1,305,000.00 *gal* |
| VCR 28 | Ground water | 2.06 | 0.00 | 0.00 | 195.10 | 3,271,200.00 *gal* |
| Application event totals | | 7.00 | 0.00 | 0.00 | 400.09 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/17/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 112.23 | 22.18 | 167.94 | 818.90 | 1,131,000.00 *gal* |
| VCR 28 | Ground water | 3.49 | 0.00 | 0.00 | 329.65 | 5,527,200.00 *gal* |
| Application event totals | | 115.72 | 22.18 | 167.94 | 1,148.56 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 133.74 | 22.76 | 151.63 | 881.31 | 1,209,000.00 *gal* |
| VCR 28 | Ground water | 3.63 | 0.00 | 0.00 | 343.11 | 5,752,800.00 *gal* |
| Application event totals | | 137.37 | 22.76 | 151.63 | 1,224.42 | |

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## Field 14 - 11/16/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 90.60 | 15.42 | 102.72 | 597.02 | 819,000.00 *gal* |
| VCR 28 | Ground water | 2.06 | 0.00 | 0.00 | 195.10 | 3,271,200.00 *gal* |
| Application event totals | | 92.66 | 15.42 | 102.72 | 792.12 | |

## Field 14 - 05/28/2023: Grass Blend (TEFT)

Field name: Field 14

Crop: Grass Blend (TEFT) Plant date: 05/28/2023

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 3.34 | 0.00 | 0.00 | 284.64 | 2,973,600.00 *gal* |
| VCR 28 | Ground water | 1.99 | 0.00 | 0.00 | 188.37 | 3,158,400.00 *gal* |
| Application event totals | | 5.33 | 0.00 | 0.00 | 473.01 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 92.40 | 19.11 | 112.45 | 581.22 | 1,287,000.00 *gal* |
| VCR 24 | Ground water | 4.24 | 0.00 | 0.00 | 360.88 | 3,770,100.00 *gal* |
| VCR 28 | Ground water | 2.53 | 0.00 | 0.00 | 238.83 | 4,004,400.00 *gal* |
| Application event totals | | 99.16 | 19.11 | 112.45 | 1,180.94 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 5.01 | 0.00 | 0.00 | 426.96 | 4,460,400.00 *gal* |
| VCR 28 | Ground water | 2.99 | 0.00 | 0.00 | 282.56 | 4,737,600.00 *gal* |
| Application event totals | | 8.00 | 0.00 | 0.00 | 709.52 | |

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## Field 15 - 11/21/2022: Alfalfa/ Grass Mix

Field name: Field 15

Crop: Alfalfa/ Grass Mix

Plant date: 11/21/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/03/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 26 | Ground water | 5.95 | 0.00 | 0.00 | 247.40 | 787,500.00 *gal* |
| VCR 28 | Ground water | 2.49 | 0.00 | 0.00 | 235.47 | 1,974,000.00 *gal* |
| Application event totals | | 8.44 | 0.00 | 0.00 | 482.87 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 155.31 | 26.43 | 176.09 | 1,023.46 | 702,000.00 *gal* |
| VCR 28 | Ground water | 2.99 | 0.00 | 0.00 | 282.56 | 2,368,800.00 *gal* |
| Application event totals | | 158.30 | 26.43 | 176.09 | 1,306.02 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.55 | 0.00 | 0.00 | 278.33 | 3,150,000.00 *gal* |
| Application event totals | | 1.55 | 0.00 | 0.00 | 278.33 | |

## Field 16 - 10/01/2017: Alfalfa, hay

Field name: Field 16

Crop: Alfalfa, hay

Plant date: 10/01/2017

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.57 | 0.00 | 0.00 | 283.46 | 5,850,000.00 *gal* |
| Application event totals | | 1.57 | 0.00 | 0.00 | 283.46 | |

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## Field 16 - 10/01/2017: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 1.09 | 0.00 | 0.00 | 103.30 | 1,579,200.00 *gal* |
| Bypass/Canal | Surface water | 1.13 | 0.00 | 0.00 | 203.51 | 4,200,000.00 *gal* |
| Application event totals | | 2.22 | 0.00 | 0.00 | 306.81 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 3.14 | 0.00 | 0.00 | 267.59 | 2,548,800.00 *gal* |
| VCR 28 | Ground water | 1.87 | 0.00 | 0.00 | 177.09 | 2,707,200.00 *gal* |
| Application event totals | | 5.02 | 0.00 | 0.00 | 444.68 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 4.12 | 0.00 | 0.00 | 351.21 | 3,345,300.00 *gal* |
| VCR 26 | Ground water | 5.88 | 0.00 | 0.00 | 244.21 | 1,417,500.00 *gal* |
| Application event totals | | 10.00 | 0.00 | 0.00 | 595.42 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 291.33 | 41.76 | 306.77 | 1,732.26 | 2,340,000.00 *gal* |
| VCR 24 | Ground water | 3.93 | 0.00 | 0.00 | 334.48 | 3,186,000.00 *gal* |
| VCR 28 | Ground water | 2.34 | 0.00 | 0.00 | 221.36 | 3,384,000.00 *gal* |
| Application event totals | | 297.60 | 41.76 | 306.77 | 2,288.11 | |

## Field 16 - 11/21/2022: Alfalfa/ Grass Mix

Field name: Field 16

Crop: Alfalfa/ Grass Mix

Plant date: 11/21/2022

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

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## Field 16 - 11/21/2022: Alfalfa/ Grass Mix

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/29/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 26 | Ground water | 9.42 | 0.00 | 0.00 | 391.52 | 2,272,500.00 *gal* |
| VCR 28 | Ground water | 3.94 | 0.00 | 0.00 | 372.62 | 5,696,400.00 *gal* |
| Application event totals | | 13.36 | 0.00 | 0.00 | 764.14 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/02/2023 | 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 |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 160.88 | 27.38 | 182.40 | 1,060.14 | 1,326,000.00 *gal* |
| Bypass/Canal | Surface water | 2.06 | 0.00 | 0.00 | 370.68 | 7,650,000.00 *gal* |
| Application event totals | | 162.94 | 27.38 | 182.40 | 1,430.82 | |

## Field 17E - 11/06/2022: Rye Grass

Field name: Field 17E

Crop: Rye Grass

Plant date: 11/06/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/19/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 160.10 | 16.17 | 174.72 | 880.13 | 2,535,000.00 *gal* |
| VCR 26 | Ground water | 2.89 | 0.00 | 0.00 | 120.17 | 1,822,500.00 *gal* |
| Application event totals | | 162.99 | 16.17 | 174.72 | 1,000.30 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/29/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 155.95 | 30.82 | 233.36 | 1,137.89 | 3,744,000.00 *gal* |
| Application event totals | | 155.95 | 30.82 | 233.36 | 1,137.89 | |

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## Field 17E - 11/06/2022: Rye Grass

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/23/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 2.81 | 0.00 | 0.00 | 265.45 | 10,603,200.00 *gal* |
| Application event totals | | 2.81 | 0.00 | 0.00 | 265.45 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/28/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.25 | 0.00 | 0.00 | 225.32 | 12,150,000.00 *gal* |
| Application event totals | | 1.25 | 0.00 | 0.00 | 225.32 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/14/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.67 | 0.00 | 0.00 | 300.42 | 16,200,000.00 *gal* |
| Application event totals | | 1.67 | 0.00 | 0.00 | 300.42 | |

## Field 17E - 06/13/2023: Corn, silage

Field name: Field 17E

Crop: Corn, silage

Plant date: 06/13/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 22 | Ground water | 7.26 | 0.00 | 0.00 | 282.95 | 3,980,400.00 *gal* |
| Bypass/Canal | Surface water | 1.65 | 0.00 | 0.00 | 297.64 | 16,050,000.00 *gal* |
| Application event totals | | 8.91 | 0.00 | 0.00 | 580.59 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/13/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

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Field 17E - 06/13/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 95.20 | 19.69 | 115.86 | 598.84 | 3,159,000.00 *gal* |
| VCR 26 | Ground water | 2.89 | 0.00 | 0.00 | 120.17 | 1,822,500.00 *gal* |
| Bypass/Canal | Surface water | 1.25 | 0.00 | 0.00 | 225.32 | 12,150,000.00 *gal* |
| Application event totals | | 99.34 | 19.69 | 115.86 | 944.32 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 28 | Ground water | 1.24 | 0.00 | 0.00 | 117.19 | 4,681,200.00 *gal* |
| Bypass/Canal | Surface water | 1.28 | 0.00 | 0.00 | 230.88 | 12,450,000.00 *gal* |
| Application event totals | | 2.52 | 0.00 | 0.00 | 348.07 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 3.61 | 0.00 | 0.00 | 307.23 | 7,646,400.00 *gal* |
| VCR 26 | Ground water | 5.14 | 0.00 | 0.00 | 213.63 | 3,240,000.00 *gal* |
| Application event totals | | 8.75 | 0.00 | 0.00 | 520.86 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/28/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 146.81 | 21.04 | 154.58 | 872.90 | 3,081,000.00 *gal* |
| VCR 18 | Ground water | 0.46 | 0.00 | 0.00 | 119.35 | 4,455,600.00 *gal* |
| VCR 24 | Ground water | 1.98 | 0.00 | 0.00 | 168.55 | 4,194,900.00 *gal* |
| VCR 26 | Ground water | 2.82 | 0.00 | 0.00 | 117.20 | 1,777,500.00 *gal* |
| Application event totals | | 152.06 | 21.04 | 154.58 | 1,278.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 24 | Ground water | 3.48 | 0.00 | 0.00 | 296.56 | 7,380,900.00 *gal* |
| VCR 26 | Ground water | 4.96 | 0.00 | 0.00 | 206.21 | 3,127,500.00 *gal* |
| Application event totals | | 8.44 | 0.00 | 0.00 | 502.78 | |

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## Field 18W - 11/23/2022: Wheat, silage, soft dough

Field name: Field 18W

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/07/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 108.63 | 21.47 | 162.56 | 792.63 | 2,769,000.00 *gal* |
| VCR 21 | Ground water | 9.71 | 0.00 | 0.00 | 394.08 | 7,252,200.00 *gal* |
| Application event totals | | 118.34 | 21.47 | 162.56 | 1,186.72 | |

| | | | | |
|---|---|---|---|---|
| 12/15/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 11 | Ground water | 35.39 | 0.00 | 0.00 | 720.97 | 7,581,600.00 *gal* |
| VCR 26 | Ground water | 2.42 | 0.00 | 0.00 | 100.61 | 1,620,000.00 *gal* |
| Application event totals | | 37.81 | 0.00 | 0.00 | 821.57 | |

| | | | | |
|---|---|---|---|---|
| 01/14/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 18 | Ground water | 1.05 | 0.00 | 0.00 | 273.20 | 10,828,800.00 *gal* |
| Application event totals | | 1.05 | 0.00 | 0.00 | 273.20 | |

| | | | | |
|---|---|---|---|---|
| 01/28/2023 | 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 |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 122.80 | 20.90 | 139.23 | 809.25 | 2,808,000.00 *gal* |
| Bypass/Canal | Surface water | 1.27 | 0.00 | 0.00 | 227.93 | 13,050,000.00 *gal* |
| Application event totals | | 124.07 | 20.90 | 139.23 | 1,037.18 | |

| | | | | |
|---|---|---|---|---|
| 02/27/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.09 | 0.00 | 0.00 | 196.50 | 11,250,000.00 *gal* |
| Application event totals | | 1.09 | 0.00 | 0.00 | 196.50 | |

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## Field 18W - 05/17/2023: Corn, silage

Field name: Field 18W

Crop: Corn, silage

Plant date: 05/17/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/06/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 91.87 | 19.00 | 111.82 | 577.95 | 3,237,000.00 *gal* |
| Bypass/Canal | Surface water | 1.80 | 0.00 | 0.00 | 324.87 | 18,600,000.00 *gal* |
| Application event totals | | 93.68 | 19.00 | 111.82 | 902.82 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/17/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/14/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 65.31 | 13.51 | 79.49 | 410.83 | 2,301,000.00 *gal* |
| VCR 26 | Ground water | 2.99 | 0.00 | 0.00 | 124.36 | 2,002,500.00 *gal* |
| Bypass/Canal | Surface water | 1.30 | 0.00 | 0.00 | 233.17 | 13,350,000.00 *gal* |
| Application event totals | | 69.60 | 13.51 | 79.49 | 768.36 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.24 | 0.00 | 0.00 | 222.70 | 12,750,000.00 *gal* |
| Application event totals | | 1.24 | 0.00 | 0.00 | 222.70 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 124.27 | 17.81 | 130.85 | 738.90 | 2,769,000.00 *gal* |
| VCR 18 | Ground water | 0.39 | 0.00 | 0.00 | 101.03 | 4,004,400.00 *gal* |
| Bypass/Canal | Surface water | 1.03 | 0.00 | 0.00 | 186.02 | 10,650,000.00 *gal* |
| Application event totals | | 125.69 | 17.81 | 130.85 | 1,025.94 | |

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## Field 18W - 05/17/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 18 | Ground water | 0.90 | 0.00 | 0.00 | 234.78 | 9,306,000.00 *gal* |
| VCR 26 | Ground water | 5.55 | 0.00 | 0.00 | 230.55 | 3,712,500.00 *gal* |
| Application event totals | | 6.45 | 0.00 | 0.00 | 465.34 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 21 | Ground water | 5.94 | 0.00 | 0.00 | 241.10 | 4,437,000.00 *gal* |
| VCR 26 | Ground water | 4.88 | 0.00 | 0.00 | 202.61 | 3,262,500.00 *gal* |
| Application event totals | | 10.82 | 0.00 | 0.00 | 443.71 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 18 | Ground water | 0.67 | 0.00 | 0.00 | 175.02 | 6,937,200.00 *gal* |
| VCR 21 | Ground water | 5.04 | 0.00 | 0.00 | 204.52 | 3,763,800.00 *gal* |
| Application event totals | | 5.71 | 0.00 | 0.00 | 379.54 | |

## Field 19 - 10/01/2020: Alfalfa, hay

Field name: Field 19

Crop: Alfalfa, hay

Plant date: 10/01/2020

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 6.68 | 0.00 | 0.00 | 1,202.50 | 73,650,000.00 *gal* |
| Application event totals | | 6.68 | 0.00 | 0.00 | 1,202.50 | |

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## Field 19 - 10/01/2020: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 21 | Ground water | 7.12 | 0.00 | 0.00 | 289.11 | 5,691,600.00 *gal* |
| VCR 34 | Ground water | 1.89 | 0.00 | 0.00 | 439.76 | 20,456,280.00 *gal* |
| Application event totals | | 9.02 | 0.00 | 0.00 | 728.87 | |

## Field 2 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 2

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/28/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.70 | 0.00 | 0.00 | 281.82 | 10,278,120.00 *gal* |
| Application event totals | | 1.70 | 0.00 | 0.00 | 281.82 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/20/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 140.13 | 27.69 | 209.69 | 1,022.44 | 3,198,000.00 *gal* |
| VCR 33 | Ground water | 1.81 | 0.00 | 0.00 | 299.25 | 10,913,880.00 *gal* |
| Application event totals | | 141.94 | 27.69 | 209.69 | 1,321.69 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/16/2023 | Surface (irrigation) | Light rain | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 13.92 | 0.00 | 0.00 | 555.60 | 6,329,100.00 *gal* |
| Application event totals | | 13.92 | 0.00 | 0.00 | 555.60 | |

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## Field 2 - 11/05/2022: Wheat, silage, soft dough

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

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 97.15 | 16.53 | 110.15 | 640.22 | 1,989,000.00 *gal* |
| VCR 11 | Ground water | 27.99 | 0.00 | 0.00 | 570.37 | 5,370,300.00 *gal* |
| Application event totals | | 125.15 | 16.53 | 110.15 | 1,210.59 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/28/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.41 | 0.00 | 0.00 | 232.43 | 8,476,800.00 *gal* |
| Application event totals | | 1.41 | 0.00 | 0.00 | 232.43 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/29/2023 | Surface (irrigation) | Light rain | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 106.68 | 18.15 | 120.95 | 702.98 | 2,184,000.00 *gal* |
| Bypass/Canal | Surface water | 0.91 | 0.00 | 0.00 | 163.87 | 8,400,000.00 *gal* |
| Application event totals | | 107.59 | 18.15 | 120.95 | 866.85 | |

## Field 2 - 06/08/2023: Corn, silage

Field name: Field 2

Crop: Corn, silage

Plant date: 06/08/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 119.92 | 24.80 | 145.96 | 754.38 | 3,783,000.00 *gal* |
| Bypass/Canal | Surface water | 1.58 | 0.00 | 0.00 | 283.84 | 14,550,000.00 *gal* |
| Application event totals | | 121.50 | 24.80 | 145.96 | 1,038.22 | |

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## Field 2 - 06/08/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/08/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.67 | 0.00 | 0.00 | 301.40 | 15,450,000.00 *gal* |
| Application event totals | | 1.67 | 0.00 | 0.00 | 301.40 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.85 | 0.00 | 0.00 | 333.58 | 17,100,000.00 *gal* |
| Application event totals | | 1.85 | 0.00 | 0.00 | 333.58 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 9.35 | 0.00 | 0.00 | 372.94 | 4,248,300.00 *gal* |
| Application event totals | | 9.35 | 0.00 | 0.00 | 372.94 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 0.91 | 0.00 | 0.00 | 151.08 | 5,509,920.00 *gal* |
| Application event totals | | 0.91 | 0.00 | 0.00 | 151.08 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/24/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 168.12 | 24.10 | 177.02 | 999.61 | 3,354,000.00 *gal* |
| VCR 2 | Ground water | 31.81 | 0.00 | 0.00 | 998.44 | 8,152,800.00 *gal* |
| Application event totals | | 199.93 | 24.10 | 177.02 | 1,998.05 | |

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## Field 2 - 06/08/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 2.28 | 0.00 | 0.00 | 377.70 | 13,774,800.00 *gal* |
| Application event totals | | 2.28 | 0.00 | 0.00 | 377.70 | |

## Field 20 - 10/01/2018: Alfalfa, hay

Field name: Field 20

Crop: Alfalfa, hay

Plant date: 10/01/2018

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/13/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 6.29 | 0.00 | 0.00 | 1,132.43 | 58,050,000.00 *gal* |
| Application event totals | | 6.29 | 0.00 | 0.00 | 1,132.43 | |

| | | | | |
|---|---|---|---|---|
| 08/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 0.90 | 0.00 | 0.00 | 209.04 | 8,138,520.00 *gal* |
| VCR 24 | Ground water | 5.40 | 0.00 | 0.00 | 460.10 | 10,885,500.00 *gal* |
| VCR 22 | Ground water | 14.63 | 0.00 | 0.00 | 570.27 | 7,626,000.00 *gal* |
| Application event totals | | 20.93 | 0.00 | 0.00 | 1,239.41 | |

| | | | | |
|---|---|---|---|---|
| 08/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 21 | Ground water | 8.33 | 0.00 | 0.00 | 338.00 | 5,569,200.00 *gal* |
| Application event totals | | 8.33 | 0.00 | 0.00 | 338.00 | |

## Field 21 - 09/01/2016: Alfalfa, hay

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## Field 21 - 09/01/2016: Alfalfa, hay

Field name: Field 21

Crop: Alfalfa, hay

Plant date: 09/01/2016

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.56 | 0.00 | 0.00 | 362.52 | 10,448,100.00 *gal* |
| Application event totals | | 1.56 | 0.00 | 0.00 | 362.52 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.64 | 0.00 | 0.00 | 381.60 | 10,998,000.00 *gal* |
| Application event totals | | 1.64 | 0.00 | 0.00 | 381.60 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.69 | 0.00 | 0.00 | 393.05 | 11,327,940.00 *gal* |
| Application event totals | | 1.69 | 0.00 | 0.00 | 393.05 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 264.08 | 37.86 | 278.06 | 1,570.18 | 3,900,000.00 *gal* |
| VCR 34 | Ground water | 1.64 | 0.00 | 0.00 | 381.60 | 10,998,000.00 *gal* |
| Application event totals | | 265.72 | 37.86 | 278.06 | 1,951.78 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/05/2023 | 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 |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 2.10 | 0.00 | 0.00 | 488.45 | 14,077,440.00 *gal* |
| Application event totals | | 2.10 | 0.00 | 0.00 | 488.45 | |

## Field 21 - 11/29/2022: Alfalfa/ Grass Mix

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

## Field 21 - 11/29/2022: Alfalfa/ Grass Mix

Field name: Field 21

Crop: Alfalfa/ Grass Mix

Plant date: 11/29/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/11/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.25 | 0.00 | 0.00 | 290.02 | 8,358,480.00 *gal* |
| Application event totals | | 1.25 | 0.00 | 0.00 | 290.02 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/27/2022 | Surface (irrigation) | No precipitation | Steady rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 182.37 | 36.04 | 272.90 | 1,330.65 | 3,081,000.00 *gal* |
| VCR 21 | Ground water | 10.39 | 0.00 | 0.00 | 421.47 | 5,140,800.00 *gal* |
| Application event totals | | 192.75 | 36.04 | 272.90 | 1,752.13 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/16/2023 | Surface (irrigation) | Light rain | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.25 | 0.00 | 0.00 | 225.32 | 8,550,000.00 *gal* |
| Application event totals | | 1.25 | 0.00 | 0.00 | 225.32 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/17/2023 | Surface (irrigation) | No precipitation | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.43 | 0.00 | 0.00 | 256.94 | 9,750,000.00 *gal* |
| Application event totals | | 1.43 | 0.00 | 0.00 | 256.94 | |

## Field 22 - 10/01/2019: Alfalfa, hay

Field name: Field 22

Crop: Alfalfa, hay

Plant date: 10/01/2019

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

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

Field 22 - 10/01/2019: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/03/2022 | Surface (irrigation) | No precipitation | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.27 | 0.00 | 0.00 | 295.82 | 11,217,960.00 *gal* |
| Application event totals | | 1.27 | 0.00 | 0.00 | 295.82 | |

| | | | | |
|---|---|---|---|---|
| 01/13/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 144.73 | 24.63 | 164.09 | 953.71 | 2,886,000.00 *gal* |
| Bypass/Canal | Surface water | 1.24 | 0.00 | 0.00 | 222.31 | 11,100,000.00 *gal* |
| Application event totals | | 145.96 | 24.63 | 164.09 | 1,176.02 | |

| | | | | |
|---|---|---|---|---|
| 05/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 2.04 | 0.00 | 0.00 | 366.51 | 18,300,000.00 *gal* |
| Application event totals | | 2.04 | 0.00 | 0.00 | 366.51 | |

| | | | | |
|---|---|---|---|---|
| 06/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.05 | 0.00 | 0.00 | 243.62 | 9,238,320.00 *gal* |
| Application event totals | | 1.05 | 0.00 | 0.00 | 243.62 | |

| | | | | |
|---|---|---|---|---|
| 07/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 0.94 | 0.00 | 0.00 | 217.51 | 8,248,500.00 *gal* |
| Application event totals | | 0.94 | 0.00 | 0.00 | 217.51 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 0.66 | 0.00 | 0.00 | 153.71 | 5,828,940.00 *gal* |
| Application event totals | | 0.66 | 0.00 | 0.00 | 153.71 | |

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## Field 22 - 10/01/2019: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 34 | Ground water | 1.12 | 0.00 | 0.00 | 261.02 | 9,898,200.00 *gal* |
| Application event totals | | 1.12 | 0.00 | 0.00 | 261.02 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/13/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 202.70 | 29.06 | 213.44 | 1,205.27 | 3,939,000.00 *gal* |
| VCR 34 | Ground water | 1.26 | 0.00 | 0.00 | 292.92 | 11,107,980.00 *gal* |
| Application event totals | | 203.96 | 29.06 | 213.44 | 1,498.19 | |

## Field 23W - 11/06/2022: Wheat, silage, soft dough

Field name: Field 23W

Crop: Wheat, silage, soft dough Plant date: 11/06/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/14/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 32 | Ground water | 10.38 | 0.00 | 0.00 | 690.81 | 11,606,400.00 *gal* |
| Application event totals | | 10.38 | 0.00 | 0.00 | 690.81 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 155.31 | 26.43 | 176.09 | 1,023.46 | 2,808,000.00 *gal* |
| VCR 22 | Ground water | 23.11 | 0.00 | 0.00 | 900.90 | 10,639,200.00 *gal* |
| Application event totals | | 178.42 | 26.43 | 176.09 | 1,924.36 | |

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## Field 23W - 11/06/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/04/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.44 | 0.00 | 0.00 | 258.45 | 11,700,000.00 *gal* |
| Application event totals | | 1.44 | 0.00 | 0.00 | 258.45 | |

## Field 23W - 06/12/2023: Corn, silage

Field name: Field 23W

Crop: Corn, silage

Plant date: 06/12/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.49 | 0.00 | 0.00 | 268.39 | 12,150,000.00 *gal* |
| Application event totals | | 1.49 | 0.00 | 0.00 | 268.39 | |

| | | | | |
|---|---|---|---|---|
| 06/12/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 3.29 | 0.00 | 0.00 | 212.25 | 3,202,800.00 *gal* |
| VCR 32 | Ground water | 6.79 | 0.00 | 0.00 | 451.68 | 7,588,800.00 *gal* |
| Application event totals | | 10.08 | 0.00 | 0.00 | 663.93 | |

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Field 23W - 06/12/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 123.96 | 17.77 | 130.53 | 737.06 | 2,184,000.00 *gal* |
| VCR 31 | Ground water | 2.71 | 0.00 | 0.00 | 174.79 | 2,637,600.00 *gal* |
| VCR 32 | Ground water | 5.59 | 0.00 | 0.00 | 371.97 | 6,249,600.00 *gal* |
| Application event totals | | 132.26 | 17.77 | 130.53 | 1,283.82 | |

| | | | | |
|---|---|---|---|---|
| 07/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.62 | 0.00 | 0.00 | 168.55 | 2,543,400.00 *gal* |
| VCR 32 | Ground water | 5.39 | 0.00 | 0.00 | 358.69 | 6,026,400.00 *gal* |
| Application event totals | | 8.01 | 0.00 | 0.00 | 527.24 | |

| | | | | |
|---|---|---|---|---|
| 08/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.57 | 0.00 | 0.00 | 165.43 | 2,496,300.00 *gal* |
| VCR 32 | Ground water | 5.29 | 0.00 | 0.00 | 352.05 | 5,914,800.00 *gal* |
| Application event totals | | 7.86 | 0.00 | 0.00 | 517.47 | |

| | | | | |
|---|---|---|---|---|
| 08/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 106.25 | 15.23 | 111.88 | 631.77 | 1,872,000.00 *gal* |
| VCR 31 | Ground water | 2.33 | 0.00 | 0.00 | 149.82 | 2,260,800.00 *gal* |
| VCR 32 | Ground water | 4.79 | 0.00 | 0.00 | 318.83 | 5,356,800.00 *gal* |
| Application event totals | | 113.37 | 15.23 | 111.88 | 1,100.42 | |

| | | | | |
|---|---|---|---|---|
| 08/26/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 1.99 | 0.00 | 0.00 | 127.97 | 1,931,100.00 *gal* |
| VCR 32 | Ground water | 4.09 | 0.00 | 0.00 | 272.34 | 4,575,600.00 *gal* |
| Application event totals | | 6.08 | 0.00 | 0.00 | 400.31 | |

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## Field 23W - 06/12/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.37 | 0.00 | 0.00 | 152.94 | 2,307,900.00 *gal* |
| VCR 32 | Ground water | 4.89 | 0.00 | 0.00 | 325.48 | 5,468,400.00 *gal* |
| Application event totals | | 7.27 | 0.00 | 0.00 | 478.42 | |

## Field 24E - 11/07/2022: Wheat, silage, soft dough

Field name: Field 24E

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/01/2022 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 101.51 | 20.06 | 151.89 | 740.64 | 2,106,000.00 *gal* |
| VCR 32 | Ground water | 10.38 | 0.00 | 0.00 | 690.43 | 11,941,200.00 *gal* |
| Application event totals | | 111.88 | 20.06 | 151.89 | 1,431.07 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/09/2023 | Surface (irrigation) | Light rain | Steady rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 117.35 | 19.97 | 133.05 | 773.28 | 2,184,000.00 *gal* |
| VCR 22 | Ground water | 13.27 | 0.00 | 0.00 | 517.14 | 6,286,800.00 *gal* |
| Application event totals | | 130.61 | 19.97 | 133.05 | 1,290.42 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/21/2023 | Surface (irrigation) | No precipitation | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.61 | 0.00 | 0.00 | 289.69 | 13,500,000.00 *gal* |
| Application event totals | | 1.61 | 0.00 | 0.00 | 289.69 | |

## Field 24E - 06/01/2023: Corn, silage

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

## Field 24E - 06/01/2023: Corn, silage

Field name: Field 24E

Crop: Corn, silage

Plant date: 06/01/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 85.68 | 17.72 | 104.28 | 538.95 | 2,457,000.00 *gal* |
| Bypass/Canal | Surface water | 1.13 | 0.00 | 0.00 | 202.78 | 9,450,000.00 *gal* |
| Application event totals | | 86.80 | 17.72 | 104.28 | 741.74 | |

| | | | | |
|---|---|---|---|---|
| 06/01/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 06/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.20 | 0.00 | 0.00 | 215.66 | 10,050,000.00 *gal* |
| Application event totals | | 1.20 | 0.00 | 0.00 | 215.66 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 91.52 | 0.00 | 0.00 | 0.00 | |
| VCR 31 | Ground water | 2.54 | 0.00 | 0.00 | 163.73 | 2,543,400.00 *gal* |
| VCR 32 | Ground water | 5.24 | 0.00 | 0.00 | 348.44 | 6,026,400.00 *gal* |
| Application event totals | | 99.30 | 0.00 | 0.00 | 512.17 | |

| | | | | |
|---|---|---|---|---|
| 07/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.87 | 0.00 | 0.00 | 184.96 | 2,873,100.00 *gal* |
| VCR 32 | Ground water | 5.92 | 0.00 | 0.00 | 393.61 | 6,807,600.00 *gal* |
| Application event totals | | 8.79 | 0.00 | 0.00 | 578.57 | |

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## Field 24E - 06/01/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.64 | 0.00 | 0.00 | 169.80 | 2,637,600.00 *gal* |
| VCR 32 | Ground water | 5.43 | 0.00 | 0.00 | 361.35 | 6,249,600.00 *gal* |
| Application event totals | | 8.07 | 0.00 | 0.00 | 531.14 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.87 | 0.00 | 0.00 | 184.96 | 2,873,100.00 *gal* |
| VCR 32 | Ground water | 5.92 | 0.00 | 0.00 | 393.61 | 6,807,600.00 *gal* |
| Application event totals | | 8.79 | 0.00 | 0.00 | 578.57 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 133.32 | 19.11 | 140.38 | 792.72 | 2,418,000.00 *gal* |
| VCR 31 | Ground water | 2.92 | 0.00 | 0.00 | 187.99 | 2,920,200.00 *gal* |
| VCR 32 | Ground water | 6.01 | 0.00 | 0.00 | 400.06 | 6,919,200.00 *gal* |
| Application event totals | | 142.25 | 19.11 | 140.38 | 1,380.77 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 31 | Ground water | 2.31 | 0.00 | 0.00 | 148.57 | 2,307,900.00 *gal* |
| VCR 32 | Ground water | 4.75 | 0.00 | 0.00 | 316.18 | 5,468,400.00 *gal* |
| Application event totals | | 7.06 | 0.00 | 0.00 | 464.75 | |

## Field 3 - 10/05/2021: Alfalfa, hay

Field name: Field 3

Crop: Alfalfa, hay

Plant date: 10/05/2021

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

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## Field 3 - 10/05/2021: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 6.57 | 0.00 | 0.00 | 1,182.90 | 56,700,000.00 *gal* |
| Application event totals | | 6.57 | 0.00 | 0.00 | 1,182.90 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 32.84 | 0.00 | 0.00 | 1,310.46 | 13,958,700.00 *gal* |
| VCR 33 | Ground water | 3.03 | 0.00 | 0.00 | 500.24 | 17,059,560.00 *gal* |
| Application event totals | | 35.87 | 0.00 | 0.00 | 1,810.70 | |

## Field 4 - 11/03/2022: Wheat, silage, soft dough

Field name: Field 4

Crop: Wheat, silage, soft dough

Plant date: 11/03/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 11/07/2022 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 119.62 | 23.64 | 179.00 | 872.81 | 2,730,000.00 *gal* |
| VCR 33 | Ground water | 2.92 | 0.00 | 0.00 | 482.29 | 17,589,360.00 *gal* |
| Application event totals | | 122.54 | 23.64 | 179.00 | 1,355.10 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/15/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 15.45 | 0.00 | 0.00 | 616.49 | 7,022,700.00 *gal* |
| Application event totals | | 15.45 | 0.00 | 0.00 | 616.49 | |

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## Field 4 - 11/03/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/09/2023 | Surface (irrigation) | Light rain | Steady rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 127.63 | 21.72 | 144.71 | 841.07 | 2,613,000.00 *gal* |
| VCR 4 | Ground water | 12.78 | 0.00 | 0.00 | 509.93 | 5,808,900.00 *gal* |
| Application event totals | | 140.41 | 21.72 | 144.71 | 1,351.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 10 | Ground water | 2.10 | 0.00 | 0.00 | 112.79 | 2,601,780.00 *gal* |
| VCR 33 | Ground water | 1.81 | 0.00 | 0.00 | 299.25 | 10,913,880.00 *gal* |
| Application event totals | | 3.90 | 0.00 | 0.00 | 412.04 | |

## Field 4 - 05/10/2023: Corn, silage

Field name: Field 4

Crop: Corn, silage

Plant date: 05/10/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 117.45 | 24.29 | 142.95 | 738.83 | 3,705,000.00 *gal* |
| Bypass/Canal | Surface water | 1.54 | 0.00 | 0.00 | 277.99 | 14,250,000.00 *gal* |
| Application event totals | | 118.99 | 24.29 | 142.95 | 1,016.81 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.50 | 0.00 | 0.00 | 269.21 | 13,800,000.00 *gal* |
| Application event totals | | 1.50 | 0.00 | 0.00 | 269.21 | |

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## Field 4 - 05/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.07 | 0.00 | 0.00 | 193.13 | 9,900,000.00 *gal* |
| Application event totals | | 1.07 | 0.00 | 0.00 | 193.13 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 162.25 | 23.26 | 170.85 | 964.74 | 3,237,000.00 *gal* |
| Bypass/Canal | Surface water | 1.35 | 0.00 | 0.00 | 242.87 | 12,450,000.00 *gal* |
| Application event totals | | 163.60 | 23.26 | 170.85 | 1,207.61 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 1 | Ground water | 21.86 | 0.00 | 0.00 | 528.40 | 7,387,200.00 *gal* |
| VCR 2 | Ground water | 28.11 | 0.00 | 0.00 | 882.34 | 7,204,800.00 *gal* |
| Application event totals | | 49.97 | 0.00 | 0.00 | 1,410.74 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.46 | 0.00 | 0.00 | 241.14 | 8,794,680.00 *gal* |
| Application event totals | | 1.46 | 0.00 | 0.00 | 241.14 | |

## Field 5 - 11/19/2022: Wheat, silage, soft dough

Field name: Field 5

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

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

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## Field 5 - 11/19/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/28/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 129.55 | 13.08 | 141.38 | 712.20 | 1,950,000.00 *gal* |
| VCR 1 | Ground water | 32.21 | 0.00 | 0.00 | 778.69 | 10,886,400.00 *gal* |
| Application event totals | | 161.76 | 13.08 | 141.38 | 1,490.89 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/16/2022 | 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 |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.74 | 0.00 | 0.00 | 287.63 | 10,490,040.00 *gal* |
| Application event totals | | 1.74 | 0.00 | 0.00 | 287.63 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/09/2023 | Surface (irrigation) | Light rain | Steady rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 10 | Ground water | 1.95 | 0.00 | 0.00 | 105.12 | 2,424,960.00 *gal* |
| VCR 33 | Ground water | 1.69 | 0.00 | 0.00 | 278.91 | 10,172,160.00 *gal* |
| Application event totals | | 3.64 | 0.00 | 0.00 | 384.04 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/15/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 110.49 | 18.80 | 125.27 | 728.09 | 2,262,000.00 *gal* |
| Application event totals | | 110.49 | 18.80 | 125.27 | 728.09 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 99.06 | 16.86 | 112.31 | 652.77 | 2,028,000.00 *gal* |
| VCR 11 | Ground water | 38.42 | 0.00 | 0.00 | 782.87 | 7,371,000.00 *gal* |
| Application event totals | | 137.48 | 16.86 | 112.31 | 1,435.64 | |

## Field 5 - 05/24/2023: Corn, silage

Field name: Field 5

Crop: Corn, silage

Plant date: 05/24/2023

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Field 5 - 05/24/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 117.45 | 24.29 | 142.95 | 738.83 | 3,705,000.00 *gal* |
| Bypass/Canal | Surface water | 1.54 | 0.00 | 0.00 | 277.99 | 14,250,000.00 *gal* |
| Application event totals | | 118.99 | 24.29 | 142.95 | 1,016.81 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/24/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.37 | 0.00 | 0.00 | 245.80 | 12,600,000.00 *gal* |
| Application event totals | | 1.37 | 0.00 | 0.00 | 245.80 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 97.74 | 14.01 | 102.92 | 581.17 | 1,950,000.00 *gal* |
| Bypass/Canal | Surface water | 0.86 | 0.00 | 0.00 | 155.09 | 7,950,000.00 *gal* |
| Application event totals | | 98.60 | 14.01 | 102.92 | 736.26 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.17 | 0.00 | 0.00 | 210.68 | 10,800,000.00 *gal* |
| Application event totals | | 1.17 | 0.00 | 0.00 | 210.68 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 1 | Ground water | 25.02 | 0.00 | 0.00 | 604.87 | 8,456,400.00 *gal* |
| Application event totals | | 25.02 | 0.00 | 0.00 | 604.87 | |

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## Field 5 - 05/24/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 1 | Ground water | 20.42 | 0.00 | 0.00 | 493.63 | 6,901,200.00 *gal* |
| VCR 18 | Ground water | 0.43 | 0.00 | 0.00 | 112.84 | 4,004,400.00 *gal* |
| Application event totals | | 20.85 | 0.00 | 0.00 | 606.47 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| VCR 1 | Ground water | 18.98 | 0.00 | 0.00 | 458.87 | 6,415,200.00 *gal* |
| VCR 18 | Ground water | 0.40 | 0.00 | 0.00 | 104.89 | 3,722,400.00 *gal* |
| Application event totals | | 19.38 | 0.00 | 0.00 | 563.76 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.35 | 0.00 | 0.00 | 223.71 | 8,158,920.00 *gal* |
| Application event totals | | 1.35 | 0.00 | 0.00 | 223.71 | |

## Field 6 - 10/01/2018: Alfalfa, hay

Field name: Field 6

Crop: Alfalfa, hay

Plant date: 10/01/2018

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 7.76 | 0.00 | 0.00 | 1,396.95 | 27,900,000.00 *gal* |
| Application event totals | | 7.76 | 0.00 | 0.00 | 1,396.95 | |

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## Field 6 - 10/01/2018: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 51.41 | 0.00 | 0.00 | 2,051.16 | 9,103,500.00 *gal* |
| Application event totals | | 51.41 | 0.00 | 0.00 | 2,051.16 | |

## Field 7 - 11/14/2022: Wheat, silage, soft dough

Field name: Field 7

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 |
|---|---|---|---|---|
| 12/06/2022 | Surface (irrigation) | No precipitation | Light rain | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 112.19 | 22.17 | 167.88 | 818.60 | 3,159,000.00 *gal* |
| VCR 4 | Ground water | 20.87 | 0.00 | 0.00 | 832.80 | 11,704,500.00 *gal* |
| Application event totals | | 133.06 | 22.17 | 167.88 | 1,651.40 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/05/2023 | Surface (irrigation) | Light rain | Light rain | Steady rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 16.85 | 0.00 | 0.00 | 672.41 | 9,450,300.00 *gal* |
| VCR 10 | Ground water | 1.80 | 0.00 | 0.00 | 96.74 | 2,753,340.00 *gal* |
| Application event totals | | 18.65 | 0.00 | 0.00 | 769.15 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/31/2023 | 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 |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 108.08 | 18.39 | 122.54 | 712.23 | 2,730,000.00 *gal* |
| VCR 11 | Ground water | 41.38 | 0.00 | 0.00 | 843.02 | 9,792,900.00 *gal* |
| Application event totals | | 149.46 | 18.39 | 122.54 | 1,555.26 | |

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## Field 7 - 11/14/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/22/2023 | Surface (irrigation) | No precipitation | Light rain | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.28 | 0.00 | 0.00 | 211.94 | 9,536,400.00 *gal* |
| Application event totals | | 1.28 | 0.00 | 0.00 | 211.94 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 96.20 | 19.90 | 117.08 | 605.14 | 3,744,000.00 *gal* |
| VCR 33 | Ground water | 1.59 | 0.00 | 0.00 | 263.74 | 11,867,520.00 *gal* |
| Application event totals | | 97.79 | 19.90 | 117.08 | 868.89 | |

## Field 7 - 06/21/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/21/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 128.26 | 26.53 | 156.11 | 806.85 | 4,992,000.00 *gal* |
| Bypass/Canal | Surface water | 1.90 | 0.00 | 0.00 | 341.53 | 21,600,000.00 *gal* |
| Application event totals | | 130.16 | 26.53 | 156.11 | 1,148.38 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/21/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

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

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.33 | 0.00 | 0.00 | 239.55 | 15,150,000.00 *gal* |
| Application event totals | | 1.33 | 0.00 | 0.00 | 239.55 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/28/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 10.05 | 0.00 | 0.00 | 400.98 | 5,635,500.00 *gal* |
| VCR 33 | Ground water | 0.93 | 0.00 | 0.00 | 153.07 | 6,887,400.00 *gal* |
| Application event totals | | 10.97 | 0.00 | 0.00 | 554.04 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 164.78 | 23.62 | 173.51 | 979.79 | 4,056,000.00 *gal* |
| VCR 33 | Ground water | 1.48 | 0.00 | 0.00 | 244.91 | 11,019,840.00 *gal* |
| Application event totals | | 166.26 | 23.62 | 173.51 | 1,224.70 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.62 | 0.00 | 0.00 | 268.45 | 12,079,440.00 *gal* |
| Application event totals | | 1.62 | 0.00 | 0.00 | 268.45 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/27/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 2.24 | 0.00 | 0.00 | 369.71 | 16,635,720.00 *gal* |
| Application event totals | | 2.24 | 0.00 | 0.00 | 369.71 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 33 | Ground water | 1.64 | 0.00 | 0.00 | 270.81 | 12,185,400.00 *gal* |
| Application event totals | | 1.64 | 0.00 | 0.00 | 270.81 | |

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## Field 8 - 11/08/2022: Wheat, silage, soft dough

Field name: Field 8

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/10/2022 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 109.65 | 21.67 | 164.08 | 800.08 | 2,535,000.00 *gal* |
| VCR 4 | Ground water | 23.16 | 0.00 | 0.00 | 924.15 | 10,664,100.00 *gal* |
| Application event totals | | 132.81 | 21.67 | 164.08 | 1,724.22 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/13/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 10 | Ground water | 2.33 | 0.00 | 0.00 | 125.40 | 2,930,160.00 *gal* |
| Application event totals | | 2.33 | 0.00 | 0.00 | 125.40 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 109.07 | 18.56 | 123.66 | 718.75 | 2,262,000.00 *gal* |
| VCR 10 | Ground water | 2.89 | 0.00 | 0.00 | 155.66 | 3,637,440.00 *gal* |
| Application event totals | | 111.96 | 18.56 | 123.66 | 874.42 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 114.71 | 19.52 | 130.06 | 755.93 | 2,379,000.00 *gal* |
| VCR 11 | Ground water | 41.72 | 0.00 | 0.00 | 850.11 | 8,108,100.00 *gal* |
| Application event totals | | 156.44 | 19.52 | 130.06 | 1,606.05 | |

## Field 8 - 05/05/2023: Corn, silage

Field name: Field 8

Crop: Corn, silage

Plant date: 05/05/2023

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

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Field 8 - 05/05/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 101.30 | 20.95 | 123.29 | 637.22 | 3,237,000.00 *gal* |
| Bypass/Canal | Surface water | 1.33 | 0.00 | 0.00 | 239.76 | 12,450,000.00 *gal* |
| Application event totals | | 102.63 | 20.95 | 123.29 | 876.98 | |

| | | | | |
|---|---|---|---|---|
| 06/09/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.56 | 0.00 | 0.00 | 280.20 | 14,550,000.00 *gal* |
| Application event totals | | 1.56 | 0.00 | 0.00 | 280.20 | |

| | | | | |
|---|---|---|---|---|
| 06/23/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.93 | 0.00 | 0.00 | 346.64 | 18,000,000.00 *gal* |
| Application event totals | | 1.93 | 0.00 | 0.00 | 346.64 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 189.12 | 27.11 | 199.14 | 1,124.49 | 3,822,000.00 *gal* |
| Bypass/Canal | Surface water | 1.57 | 0.00 | 0.00 | 283.09 | 14,700,000.00 *gal* |
| Application event totals | | 190.69 | 27.11 | 199.14 | 1,407.58 | |

| | | | | |
|---|---|---|---|---|
| 07/24/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 0.93 | 0.00 | 0.00 | 167.54 | 8,700,000.00 *gal* |
| Application event totals | | 0.93 | 0.00 | 0.00 | 167.54 | |

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## Field 8 - 05/05/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 4 | Ground water | 13.93 | 0.00 | 0.00 | 555.99 | 6,415,800.00 *gal* |
| VCR 33 | Ground water | 1.28 | 0.00 | 0.00 | 212.24 | 7,841,040.00 *gal* |
| Application event totals | | 15.22 | 0.00 | 0.00 | 768.23 | |

## Field 9 - 10/01/2020: Alfalfa, hay

Field name: Field 9

Crop: Alfalfa, hay

Plant date: 10/01/2020

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 159.85 | 27.20 | 181.23 | 1,053.35 | 3,315,000.00 *gal* |
| Application event totals | | 159.85 | 27.20 | 181.23 | 1,053.35 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/30/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.85 | 0.00 | 0.00 | 332.20 | 17,250,000.00 *gal* |
| Application event totals | | 1.85 | 0.00 | 0.00 | 332.20 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/09/2023 | 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 |
|---|---|---|---|---|---|---|
| VCR 11 | Ground water | 32.51 | 0.00 | 0.00 | 662.43 | 6,318,000.00 *gal* |
| Bypass/Canal | Surface water | 0.96 | 0.00 | 0.00 | 173.32 | 9,000,000.00 *gal* |
| Application event totals | | 33.48 | 0.00 | 0.00 | 835.75 | |

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## Field 9 - 10/01/2020: Alfalfa, hay

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 11 | Ground water | 52.02 | 0.00 | 0.00 | 1,059.88 | 10,108,800.00 *gal* |
| Bypass/Canal | Surface water | 1.54 | 0.00 | 0.00 | 277.31 | 14,400,000.00 *gal* |
| Application event totals | | 53.56 | 0.00 | 0.00 | 1,337.19 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| VCR 18 | Ground water | 0.87 | 0.00 | 0.00 | 225.92 | 8,121,600.00 *gal* |
| VCR 21 | Ground water | 6.51 | 0.00 | 0.00 | 264.00 | 4,406,400.00 *gal* |
| Application event totals | | 7.37 | 0.00 | 0.00 | 489.92 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Wastewater | Process wastewater | 206.49 | 29.60 | 217.42 | 1,227.76 | 4,173,000.00 *gal* |
| VCR 18 | Ground water | 0.65 | 0.00 | 0.00 | 167.87 | 6,034,800.00 *gal* |
| VCR 26 | Ground water | 3.97 | 0.00 | 0.00 | 164.85 | 2,407,500.00 *gal* |
| Application event totals | | 211.10 | 29.60 | 217.42 | 1,560.47 | |

## Field CCF 1 - 10/29/2022: Wheat, silage, soft dough

Field name: Field CCF 1

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/13/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solds | Separator solids | 120.00 | 20.66 | 43.31 | 0.00 | 883.00 *ton* |
| Application event totals | | 120.00 | 20.66 | 43.31 | 0.00 | |

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## Field CCF 1 - 10/29/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.86 | 0.00 | 0.00 | 335.01 | 16,950,000.00 *gal* |
| Application event totals | | 1.86 | 0.00 | 0.00 | 335.01 | |

| | | | | |
|---|---|---|---|---|
| 03/01/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 2.08 | 0.00 | 0.00 | 373.55 | 18,900,000.00 *gal* |
| Application event totals | | 2.08 | 0.00 | 0.00 | 373.55 | |

## Field CCF 1 - 05/30/2023: Corn, silage

Field name: Field CCF 1

Crop: Corn, silage

Plant date: 05/30/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/16/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 130.69 | 44.77 | 189.98 | 0.00 | 636.00 *ton* |
| Application event totals | | 130.69 | 44.77 | 189.98 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 06/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.66 | 0.00 | 0.00 | 299.43 | 15,150,000.00 *gal* |
| Application event totals | | 1.66 | 0.00 | 0.00 | 299.43 | |

| | | | | |
|---|---|---|---|---|
| 05/30/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

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## Field CCF 1 - 05/30/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.83 | 0.00 | 0.00 | 329.08 | 16,650,000.00 *gal* |
| Application event totals | | 1.83 | 0.00 | 0.00 | 329.08 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 52.80 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.40 | 0.00 | 0.00 | 252.00 | 12,750,000.00 *gal* |
| Application event totals | | 54.20 | 0.00 | 0.00 | 252.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 8.54 | 0.00 | 0.00 | 1,224.55 | 10,621,260.00 *gal* |
| Application event totals | | 8.54 | 0.00 | 0.00 | 1,224.55 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 7.77 | 0.00 | 0.00 | 1,114.48 | 9,666,540.00 *gal* |
| Application event totals | | 7.77 | 0.00 | 0.00 | 1,114.48 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 7.10 | 0.00 | 0.00 | 1,018.17 | 8,831,160.00 *gal* |
| Application event totals | | 7.10 | 0.00 | 0.00 | 1,018.17 | |

## Field CCF 10 - 12/01/2008: Almond, in shell

Field name: Field CCF 10

Crop: Almond, in shell

Plant date: 12/01/2008

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

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## Field CCF 10 - 12/01/2008: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 40.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.93 | 0.00 | 0.00 | 1,247.68 | 66,450,000.00 *gal* |
| Application event totals | | 46.93 | 0.00 | 0.00 | 1,247.68 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/20/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 60.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 60.00 | 0.00 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/24/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 11 | Ground water | 11.72 | 0.00 | 0.00 | 1,700.67 | 17,721,360.00 *gal* |
| Application event totals | | 11.72 | 0.00 | 0.00 | 1,700.67 | |

## Field CCF 11 - 12/01/2008: Almond, in shell

Field name: Field CCF 11

Crop: Almond, in shell

Plant date: 12/01/2008

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.63 | 0.00 | 0.00 | 1,193.34 | 42,900,000.00 *gal* |
| Application event totals | | 56.63 | 0.00 | 0.00 | 1,193.34 | |

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## Field CCF 11 - 12/01/2008: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/15/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 08/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 8 | Ground water | 4.12 | 0.00 | 0.00 | 872.42 | 8,820,900.00 *gal* |
| CCF 9 | Ground water | 5.27 | 0.00 | 0.00 | 1,047.20 | 5,841,720.00 *gal* |
| Application event totals | | 9.39 | 0.00 | 0.00 | 1,919.62 | |

## Field CCF 12 - 12/01/2008: Almond, in shell

Field name: Field CCF 12

Crop: Almond, in shell

Plant date: 12/01/2008

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.06 | 0.00 | 0.00 | 1,091.37 | 23,250,000.00 *gal* |
| Application event totals | | 56.06 | 0.00 | 0.00 | 1,091.37 | |

| | | | | |
|---|---|---|---|---|
| 05/16/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

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## Field CCF 12 - 12/01/2008: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/23/2023 | 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 |
|---|---|---|---|---|---|---|
| CCF 8 | Ground water | 4.46 | 0.00 | 0.00 | 945.12 | 5,662,800.00 *gal* |
| CCF 9 | Ground water | 5.71 | 0.00 | 0.00 | 1,134.47 | 3,750,240.00 *gal* |
| Application event totals | | 10.17 | 0.00 | 0.00 | 2,079.59 | |

## Field CCF 13 - 12/01/2008: Almond, in shell

Field name: Field CCF 13

Crop: Almond, in shell

Plant date: 12/01/2008

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.63 | 0.00 | 0.00 | 1,192.84 | 13,500,000.00 *gal* |
| Application event totals | | 56.63 | 0.00 | 0.00 | 1,192.84 | |

| | | | | |
|---|---|---|---|---|
| 05/17/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 08/24/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 8 | Ground water | 4.20 | 0.00 | 0.00 | 889.53 | 2,831,400.00 *gal* |
| CCF 9 | Ground water | 5.38 | 0.00 | 0.00 | 1,067.74 | 1,875,120.00 *gal* |
| Application event totals | | 9.57 | 0.00 | 0.00 | 1,957.26 | |

## Field CCF 14 - 12/01/2016: Almond, in shell

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## Field CCF 14 - 12/01/2016: Almond, in shell

Field name: Field CCF 14

Crop: Almond, in shell

Plant date: 12/01/2016

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/13/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.61 | 0.00 | 0.00 | 1,189.75 | 84,750,000.00 *gal* |
| Application event totals | | 56.61 | 0.00 | 0.00 | 1,189.75 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/18/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 8 | Ground water | 4.23 | 0.00 | 0.00 | 896.88 | 17,968,500.00 *gal* |
| CCF 9 | Ground water | 5.42 | 0.00 | 0.00 | 1,076.56 | 11,899,800.00 *gal* |
| Application event totals | | 9.65 | 0.00 | 0.00 | 1,973.44 | |

## Field CCF 1-B - 10/31/2022: Wheat, silage, soft dough

Field name: Field CCF 1-B

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/11/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 247.90 | 78.23 | 315.11 | 0.00 | 525.00 *ton* |
| Application event totals | | 247.90 | 78.23 | 315.11 | 0.00 | |

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## Field CCF 1-B - 10/31/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/03/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.73 | 0.00 | 0.00 | 311.74 | 15,150,000.00 *gal* |
| Application event totals | | 1.73 | 0.00 | 0.00 | 311.74 | |

| | | | | |
|---|---|---|---|---|
| 03/08/2023 | Surface (irrigation) | No precipitation | Light rain | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.90 | 0.00 | 0.00 | 342.60 | 16,650,000.00 *gal* |
| Application event totals | | 1.90 | 0.00 | 0.00 | 342.60 | |

## Field CCF 1-B - 05/20/2023: Corn, silage

Field name: Field CCF 1-B

Crop: Corn, silage

Plant date: 05/20/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/02/2023 | Broadcast/incorporate | No precipitation | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 152.75 | 52.33 | 222.05 | 0.00 | 714.00 *ton* |
| Application event totals | | 152.75 | 52.33 | 222.05 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 05/20/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.39 | 0.00 | 0.00 | 250.01 | 12,150,000.00 *gal* |
| Application event totals | | 1.39 | 0.00 | 0.00 | 250.01 | |

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Field CCF 1-B - 05/20/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.56 | 0.00 | 0.00 | 280.87 | 13,650,000.00 *gal* |
| Application event totals | | 1.56 | 0.00 | 0.00 | 280.87 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/25/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.27 | 0.00 | 0.00 | 228.40 | 11,100,000.00 *gal* |
| Application event totals | | 1.27 | 0.00 | 0.00 | 228.40 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/09/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 52.80 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.20 | 0.00 | 0.00 | 216.06 | 10,500,000.00 *gal* |
| Application event totals | | 54.00 | 0.00 | 0.00 | 216.06 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 6.59 | 0.00 | 0.00 | 945.42 | 7,876,440.00 *gal* |
| Application event totals | | 6.59 | 0.00 | 0.00 | 945.42 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/05/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 6.09 | 0.00 | 0.00 | 873.79 | 7,279,740.00 *gal* |
| Application event totals | | 6.09 | 0.00 | 0.00 | 873.79 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 5.59 | 0.00 | 0.00 | 802.17 | 6,683,040.00 *gal* |
| Application event totals | | 5.59 | 0.00 | 0.00 | 802.17 | |

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## Field CCF 1-B - 05/20/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 6.79 | 0.00 | 0.00 | 974.06 | 8,115,120.00 *gal* |
| Application event totals | | 6.79 | 0.00 | 0.00 | 974.06 | |

## Field CCF 2 - 10/27/2022: Wheat, silage, soft dough

Field name: Field CCF 2

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/18/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solids | Separator solids | 110.49 | 19.02 | 39.88 | 0.00 | 813.00 *ton* |
| Application event totals | | 110.49 | 19.02 | 39.88 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 12/29/2022 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.50 | 0.00 | 0.00 | 269.79 | 13,650,000.00 *gal* |
| Application event totals | | 1.50 | 0.00 | 0.00 | 269.79 | |

| | | | | |
|---|---|---|---|---|
| 02/26/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 2.16 | 0.00 | 0.00 | 388.37 | 19,650,000.00 *gal* |
| Application event totals | | 2.16 | 0.00 | 0.00 | 388.37 | |

## Field CCF 2 - 06/10/2023: Corn, silage

Field name: Field CCF 2

Crop: Corn, silage

Plant date: 06/10/2023

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Field CCF 2 - 06/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/18/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 145.48 | 49.84 | 211.49 | 0.00 | 708.00 *ton* |
| Application event totals | | 145.48 | 49.84 | 211.49 | 0.00 | |

| 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.61 | 0.00 | 0.00 | 290.54 | 14,700,000.00 *gal* |
| Application event totals | | 1.61 | 0.00 | 0.00 | 290.54 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/10/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.96 | 0.00 | 0.00 | 352.80 | 17,850,000.00 *gal* |
| Application event totals | | 1.96 | 0.00 | 0.00 | 352.80 | |

| 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 |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 52.80 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.56 | 0.00 | 0.00 | 281.64 | 14,250,000.00 *gal* |
| Application event totals | | 54.36 | 0.00 | 0.00 | 281.64 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 7.00 | 0.00 | 0.00 | 1,004.41 | 8,711,820.00 *gal* |
| Application event totals | | 7.00 | 0.00 | 0.00 | 1,004.41 | |

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## Field CCF 2 - 06/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 8.54 | 0.00 | 0.00 | 1,224.55 | 10,621,260.00 *gal* |
| Application event totals | | 8.54 | 0.00 | 0.00 | 1,224.55 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 7.00 | 0.00 | 0.00 | 1,004.41 | 8,711,820.00 *gal* |
| Application event totals | | 7.00 | 0.00 | 0.00 | 1,004.41 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 20 | Ground water | 6.43 | 0.00 | 0.00 | 921.86 | 7,995,780.00 *gal* |
| Application event totals | | 6.43 | 0.00 | 0.00 | 921.86 | |

## Field CCF 3 - 10/27/2022: Wheat, silage, soft dough

Field name: Field CCF 3

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/09/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solids | Separator solids | 108.58 | 18.70 | 39.19 | 0.00 | 799.00 *ton* |
| Application event totals | | 108.58 | 18.70 | 39.19 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/23/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.17 | 0.00 | 0.00 | 210.49 | 10,650,000.00 *gal* |
| Application event totals | | 1.17 | 0.00 | 0.00 | 210.49 | |

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## Field CCF 3 - 10/27/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/22/2023 | Surface (irrigation) | Light rain | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.76 | 0.00 | 0.00 | 317.22 | 16,050,000.00 *gal* |
| Application event totals | | 1.76 | 0.00 | 0.00 | 317.22 | |

## Field CCF 3 - 06/10/2023: Corn, silage

Field name: Field CCF 3

Crop: Corn, silage

Plant date: 06/10/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/20/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 155.96 | 53.43 | 226.72 | 0.00 | 759.00 *ton* |
| Application event totals | | 155.96 | 53.43 | 226.72 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 05/28/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.65 | 0.00 | 0.00 | 296.47 | 15,000,000.00 *gal* |
| Application event totals | | 1.65 | 0.00 | 0.00 | 296.47 | |

| | | | | |
|---|---|---|---|---|
| 06/10/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 07/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.76 | 0.00 | 0.00 | 317.22 | 16,050,000.00 *gal* |
| Application event totals | | 1.76 | 0.00 | 0.00 | 317.22 | |

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## Field CCF 3 - 06/10/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 52.80 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.56 | 0.00 | 0.00 | 281.64 | 14,250,000.00 *gal* |
| Application event totals | | 54.36 | 0.00 | 0.00 | 281.64 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 5.84 | 0.00 | 0.00 | 855.87 | 8,381,340.00 *gal* |
| Application event totals | | 5.84 | 0.00 | 0.00 | 855.87 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 6.97 | 0.00 | 0.00 | 1,020.86 | 9,997,020.00 *gal* |
| Application event totals | | 6.97 | 0.00 | 0.00 | 1,020.86 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 6.27 | 0.00 | 0.00 | 917.74 | 8,987,220.00 *gal* |
| Application event totals | | 6.27 | 0.00 | 0.00 | 917.74 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 4.93 | 0.00 | 0.00 | 721.82 | 7,068,600.00 *gal* |
| Application event totals | | 4.93 | 0.00 | 0.00 | 721.82 | |

## Field CCF 4 - 10/25/2022: Wheat, silage, soft dough

Field name: Field CCF 4

Crop: Wheat, silage, soft dough

Plant date: 10/25/2022

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

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## Field CCF 4 - 10/25/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/06/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 260.59 | 82.23 | 331.24 | 0.00 | 567.00 *ton* |
| Application event totals | | 260.59 | 82.23 | 331.24 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/18/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.27 | 0.00 | 0.00 | 228.32 | 11,400,000.00 *gal* |
| Application event totals | | 1.27 | 0.00 | 0.00 | 228.32 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.18 | 0.00 | 0.00 | 213.30 | 10,650,000.00 *gal* |
| Application event totals | | 1.18 | 0.00 | 0.00 | 213.30 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/28/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.57 | 0.00 | 0.00 | 282.39 | 14,100,000.00 *gal* |
| Application event totals | | 1.57 | 0.00 | 0.00 | 282.39 | |

## Field CCF 4 - 05/18/2023: Corn, silage

Field name: Field CCF 4

Crop: Corn, silage

Plant date: 05/18/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/02/2023 | Broadcast/incorporate | No precipitation | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 184.90 | 63.35 | 268.79 | 0.00 | 888.00 *ton* |
| Application event totals | | 184.90 | 63.35 | 268.79 | 0.00 | |

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Field CCF 4 - 05/18/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/20/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.52 | 0.00 | 0.00 | 273.38 | 13,650,000.00 *gal* |
| Application event totals | | 1.52 | 0.00 | 0.00 | 273.38 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/18/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.72 | 0.00 | 0.00 | 309.43 | 15,450,000.00 *gal* |
| Application event totals | | 1.72 | 0.00 | 0.00 | 309.43 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/28/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.65 | 0.00 | 0.00 | 297.42 | 14,850,000.00 *gal* |
| Application event totals | | 1.65 | 0.00 | 0.00 | 297.42 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 52.80 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.20 | 0.00 | 0.00 | 216.30 | 10,800,000.00 *gal* |
| Application event totals | | 54.00 | 0.00 | 0.00 | 216.30 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/24/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 6.49 | 0.00 | 0.00 | 950.88 | 9,189,180.00 *gal* |
| Application event totals | | 6.49 | 0.00 | 0.00 | 950.88 | |

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## Field CCF 4 - 05/18/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 5.99 | 0.00 | 0.00 | 877.73 | 8,482,320.00 *gal* |
| Application event totals | | 5.99 | 0.00 | 0.00 | 877.73 | |

| | | | | |
|---|---|---|---|---|
| 08/23/2023 | 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 |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 5.42 | 0.00 | 0.00 | 794.14 | 7,674,480.00 *gal* |
| Application event totals | | 5.42 | 0.00 | 0.00 | 794.14 | |

## Field CCF 5 - 12/01/2020: Almond, in shell

Field name: Field CCF 5

Crop: Almond, in shell

Plant date: 12/01/2020

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.97 | 0.00 | 0.00 | 1,255.33 | 40,950,000.00 *gal* |
| Application event totals | | 56.97 | 0.00 | 0.00 | 1,255.33 | |

| | | | | |
|---|---|---|---|---|
| 05/15/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 08/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 11.25 | 0.00 | 0.00 | 1,647.35 | 10,400,940.00 *gal* |
| Application event totals | | 11.25 | 0.00 | 0.00 | 1,647.35 | |

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## Field CCF 6 - 12/01/2020: Almond, in shell

Field name: Field CCF 6

Crop: Almond, in shell

Plant date: 12/01/2020

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.91 | 0.00 | 0.00 | 1,244.13 | 19,050,000.00 *gal* |
| Application event totals | | 56.91 | 0.00 | 0.00 | 1,244.13 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/16/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

| 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 |
|---|---|---|---|---|---|---|
| CCF 18 | Ground water | 14.19 | 0.00 | 0.00 | 2,078.48 | 6,159,780.00 *gal* |
| Application event totals | | 14.19 | 0.00 | 0.00 | 2,078.48 | |

## Field CCF 7 - 12/01/2014: Almond, in shell

Field name: Field CCF 7

Crop: Almond, in shell

Plant date: 12/01/2014

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/12/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 50.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.37 | 0.00 | 0.00 | 1,145.89 | 53,400,000.00 *gal* |
| Application event totals | | 56.37 | 0.00 | 0.00 | 1,145.89 | |

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## Field CCF 7 - 12/01/2014: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/17/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 70.00 | 0.00 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 08/23/2023 | 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 |
|---|---|---|---|---|---|---|
| CCF 16 | Ground water | 6.72 | 0.00 | 0.00 | 1,143.76 | 11,559,240.00 *gal* |
| CCF 21 | Ground water | 1.12 | 0.00 | 0.00 | 341.45 | 9,390,840.00 *gal* |
| Application event totals | | 7.84 | 0.00 | 0.00 | 1,485.22 | |

## Field CCF 8 - 12/01/2007: Almond, in shell

Field name: Field CCF 8

Crop: Almond, in shell

Plant date: 12/01/2007

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/13/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 40.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 6.76 | 0.00 | 0.00 | 1,216.70 | 44,550,000.00 *gal* |
| Application event totals | | 46.76 | 0.00 | 0.00 | 1,216.70 | |

| | | | | |
|---|---|---|---|---|
| 05/18/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 60.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 60.00 | 0.00 | 0.00 | 0.00 | |

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## Field CCF 8 - 12/01/2007: Almond, in shell

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/23/2023 | 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 |
|---|---|---|---|---|---|---|
| CCF 16 | Ground water | 6.22 | 0.00 | 0.00 | 1,057.74 | 8,399,160.00 *gal* |
| CCF 21 | Ground water | 1.04 | 0.00 | 0.00 | 315.77 | 6,823,560.00 *gal* |
| Application event totals | | 7.25 | 0.00 | 0.00 | 1,373.51 | |

## Field CCF 9 - 12/01/2007: Almond, in shell

Field name: Field CCF 9

Crop: Almond, in shell

Plant date: 12/01/2007

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/14/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 40.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 7.43 | 0.00 | 0.00 | 1,337.58 | 56,100,000.00 *gal* |
| Application event totals | | 47.43 | 0.00 | 0.00 | 1,337.58 | |

| | | | | |
|---|---|---|---|---|
| 05/19/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 60.00 | 0.00 | 0.00 | 0.00 | |
| Application event totals | | 60.00 | 0.00 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| CCF 11 | Ground water | 9.95 | 0.00 | 0.00 | 1,444.49 | 11,853,360.00 *gal* |
| Application event totals | | 9.95 | 0.00 | 0.00 | 1,444.49 | |

## Field CCF Home 1 - 11/11/2022: Wheat, silage, soft dough

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## Field CCF Home 1 - 11/11/2022: Wheat, silage, soft dough

Field name: Field CCF Home 1

Crop: Wheat, silage, soft dough

Plant date: 11/11/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 10/08/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solids | Separator solids | 154.51 | 26.60 | 55.77 | 0.00 | 748.00 *ton* |
| Application event totals | | 154.51 | 26.60 | 55.77 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 01/11/2023 | Surface (irrigation) | Light rain | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.55 | 0.00 | 0.00 | 279.39 | 9,300,000.00 *gal* |
| Application event totals | | 1.55 | 0.00 | 0.00 | 279.39 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 03/04/2023 | Surface (irrigation) | No precipitation | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.98 | 0.00 | 0.00 | 356.00 | 11,850,000.00 *gal* |
| Application event totals | | 1.98 | 0.00 | 0.00 | 356.00 | |

## Field CCF Home 1 - 05/13/2023: Corn, silage

Field name: Field CCF Home 1

Crop: Corn, silage

Plant date: 05/13/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/19/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 142.74 | 48.90 | 207.50 | 0.00 | 457.00 *ton* |
| Application event totals | | 142.74 | 48.90 | 207.50 | 0.00 | |

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## Field CCF Home 1 - 05/13/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/01/2023 | Surface (irrigation) | No precipitation | No precipitation | Light rain |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.48 | 0.00 | 0.00 | 265.87 | 8,850,000.00 *gal* |
| Application event totals | | 1.48 | 0.00 | 0.00 | 265.87 | |

| | | | | |
|---|---|---|---|---|
| 05/13/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 06/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.30 | 0.00 | 0.00 | 234.33 | 7,800,000.00 *gal* |
| Application event totals | | 1.30 | 0.00 | 0.00 | 234.33 | |

| | | | | |
|---|---|---|---|---|
| 06/16/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.20 | 0.00 | 0.00 | 216.30 | 7,200,000.00 *gal* |
| Application event totals | | 1.20 | 0.00 | 0.00 | 216.30 | |

| | | | | |
|---|---|---|---|---|
| 07/03/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 70.40 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.55 | 0.00 | 0.00 | 279.39 | 9,300,000.00 *gal* |
| Application event totals | | 71.95 | 0.00 | 0.00 | 279.39 | |

| | | | | |
|---|---|---|---|---|
| 07/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.51 | 0.00 | 0.00 | 217.35 | 3,064,160.00 *gal* |
| CCF 3 | Ground water | 8.87 | 0.00 | 0.00 | 3,395.59 | 3,362,820.00 *gal* |
| Application event totals | | 9.38 | 0.00 | 0.00 | 3,612.94 | |

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## Field CCF Home 1 - 05/13/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/02/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 1.27 | 0.00 | 0.00 | 540.90 | 7,625,520.00 *gal* |
| Application event totals | | 1.27 | 0.00 | 0.00 | 540.90 | |

| | | | | |
|---|---|---|---|---|
| 08/15/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 1.11 | 0.00 | 0.00 | 471.96 | 6,653,640.00 *gal* |
| Application event totals | | 1.11 | 0.00 | 0.00 | 471.96 | |

## Field CCF Home 2 - 11/08/2022: Wheat, silage, soft dough

Field name: Field CCF Home 2

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/29/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solids | Separator solids | 159.89 | 27.53 | 57.71 | 0.00 | 805.00 *ton* |
| Application event totals | | 159.89 | 27.53 | 57.71 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 01/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.59 | 0.00 | 0.00 | 285.98 | 9,900,000.00 *gal* |
| Application event totals | | 1.59 | 0.00 | 0.00 | 285.98 | |

| | | | | |
|---|---|---|---|---|
| 03/11/2023 | Surface (irrigation) | Light rain | Light rain | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 2.00 | 0.00 | 0.00 | 359.64 | 12,450,000.00 *gal* |
| Application event totals | | 2.00 | 0.00 | 0.00 | 359.64 | |

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## Field CCF Home 2 - 05/22/2023: Corn, silage

Field name: Field CCF Home 2

Crop: Corn, silage

Plant date: 05/22/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/01/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 158.87 | 54.43 | 230.95 | 0.00 | 529.00 *ton* |
| Application event totals | | 158.87 | 54.43 | 230.95 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/08/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.66 | 0.00 | 0.00 | 298.98 | 10,350,000.00 *gal* |
| Application event totals | | 1.66 | 0.00 | 0.00 | 298.98 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/22/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/11/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.40 | 0.00 | 0.00 | 251.31 | 8,700,000.00 *gal* |
| Application event totals | | 1.40 | 0.00 | 0.00 | 251.31 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/23/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.23 | 0.00 | 0.00 | 220.98 | 7,650,000.00 *gal* |
| Application event totals | | 1.23 | 0.00 | 0.00 | 220.98 | |

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## Field CCF Home 2 - 05/22/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/07/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 88.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.30 | 0.00 | 0.00 | 233.98 | 8,100,000.00 *gal* |
| Application event totals | | 89.30 | 0.00 | 0.00 | 233.98 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/22/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 1.07 | 0.00 | 0.00 | 453.81 | 6,653,640.00 *gal* |
| Application event totals | | 1.07 | 0.00 | 0.00 | 453.81 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/06/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.47 | 0.00 | 0.00 | 198.86 | 2,915,640.00 *gal* |
| CCF 3 | Ground water | 8.11 | 0.00 | 0.00 | 3,105.72 | 3,198,780.00 *gal* |
| Application event totals | | 8.58 | 0.00 | 0.00 | 3,304.58 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/23/2023 | 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 |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.53 | 0.00 | 0.00 | 224.35 | 3,289,440.00 *gal* |
| CCF 3 | Ground water | 9.15 | 0.00 | 0.00 | 3,503.89 | 3,608,880.00 *gal* |
| Application event totals | | 9.68 | 0.00 | 0.00 | 3,728.25 | |

## Field CCF Home 3 - 11/02/2022: Wheat, silage, soft dough

Field name: Field CCF Home 3

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

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

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## Field CCF Home 3 - 11/02/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/20/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solids | Separator solids | 122.14 | 21.03 | 44.09 | 0.00 | 544.00 *ton* |
| Application event totals | | 122.14 | 21.03 | 44.09 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 12/18/2022 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.14 | 0.00 | 0.00 | 205.72 | 6,300,000.00 *gal* |
| Application event totals | | 1.14 | 0.00 | 0.00 | 205.72 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 02/15/2023 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.39 | 0.00 | 0.00 | 249.81 | 7,650,000.00 *gal* |
| Application event totals | | 1.39 | 0.00 | 0.00 | 249.81 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/01/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.20 | 0.00 | 0.00 | 215.52 | 6,600,000.00 *gal* |
| Application event totals | | 1.20 | 0.00 | 0.00 | 215.52 | |

## Field CCF Home 3 - 05/29/2023: Corn, silage

Field name: Field CCF Home 3

Crop: Corn, silage

Plant date: 05/29/2023

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/19/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.28 | 0.00 | 0.00 | 230.21 | 7,050,000.00 *gal* |
| Application event totals | | 1.28 | 0.00 | 0.00 | 230.21 | |

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## Field CCF Home 3 - 05/29/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/17/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 193.17 | 66.18 | 280.82 | 0.00 | 569.00 *ton* |
| Application event totals | | 193.17 | 66.18 | 280.82 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 05/29/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.63 | 0.00 | 0.00 | 293.89 | 9,000,000.00 *gal* |
| Application event totals | | 1.63 | 0.00 | 0.00 | 293.89 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 06/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.39 | 0.00 | 0.00 | 249.81 | 7,650,000.00 *gal* |
| Application event totals | | 1.39 | 0.00 | 0.00 | 249.81 | |

| 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 |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 88.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.44 | 0.00 | 0.00 | 259.60 | 7,950,000.00 *gal* |
| Application event totals | | 89.44 | 0.00 | 0.00 | 259.60 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.45 | 0.00 | 0.00 | 190.21 | 2,467,080.00 *gal* |
| CCF 3 | Ground water | 7.76 | 0.00 | 0.00 | 2,970.69 | 2,706,660.00 *gal* |
| Application event totals | | 8.21 | 0.00 | 0.00 | 3,160.90 | |

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## Field CCF Home 3 - 05/29/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/10/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 1.11 | 0.00 | 0.00 | 472.65 | 6,130,320.00 *gal* |
| Application event totals | | 1.11 | 0.00 | 0.00 | 472.65 | |

| | | | | |
|---|---|---|---|---|
| 08/25/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.50 | 0.00 | 0.00 | 213.27 | 2,766,120.00 *gal* |
| CCF 3 | Ground water | 8.70 | 0.00 | 0.00 | 3,330.78 | 3,034,740.00 *gal* |
| Application event totals | | 9.20 | 0.00 | 0.00 | 3,544.04 | |

## Field CCF Home 4 - 11/01/2022: Wheat, silage, soft dough

Field name: Field CCF Home 4

Crop: Wheat, silage, soft dough  Plant date: 11/01/2022

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 09/22/2022 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Separator Solids | Separator solids | 116.09 | 19.99 | 41.90 | 0.00 | 562.00 *ton* |
| Application event totals | | 116.09 | 19.99 | 41.90 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 12/22/2022 | 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.28 | 0.00 | 0.00 | 229.82 | 7,650,000.00 *gal* |
| Application event totals | | 1.28 | 0.00 | 0.00 | 229.82 | |

| | | | | |
|---|---|---|---|---|
| 02/18/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.38 | 0.00 | 0.00 | 247.85 | 8,250,000.00 *gal* |
| Application event totals | | 1.38 | 0.00 | 0.00 | 247.85 | |

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## Field CCF Home 4 - 11/01/2022: Wheat, silage, soft dough

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 04/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.03 | 0.00 | 0.00 | 184.76 | 6,150,000.00 *gal* |
| Application event totals | | 1.03 | 0.00 | 0.00 | 184.76 | |

## Field CCF Home 4 - 06/05/2023: Corn, silage

Field name: Field CCF Home 4

Crop: Corn, silage

Plant date: 06/05/2023

| 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 |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.50 | 0.00 | 0.00 | 270.38 | 9,000,000.00 *gal* |
| Application event totals | | 1.50 | 0.00 | 0.00 | 270.38 | |

| | | | | |
|---|---|---|---|---|
| 05/21/2023 | Broadcast/incorporate | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Corral Solids | Corral solids | 177.09 | 60.67 | 257.44 | 0.00 | 567.00 *ton* |
| Application event totals | | 177.09 | 60.67 | 257.44 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 06/05/2023 | Sidedress | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| 10-34-0 | Solid commercial fertilizer | 4.64 | 15.78 | 0.00 | 0.00 | |
| Application event totals | | 4.64 | 15.78 | 0.00 | 0.00 | |

| | | | | |
|---|---|---|---|---|
| 06/21/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.55 | 0.00 | 0.00 | 279.39 | 9,300,000.00 *gal* |
| Application event totals | | 1.55 | 0.00 | 0.00 | 279.39 | |

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Field CCF Home 4 - 06/05/2023: Corn, silage

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/04/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| Bypass/Canal | Surface water | 1.10 | 0.00 | 0.00 | 198.28 | 6,600,000.00 *gal* |
| Application event totals | | 1.10 | 0.00 | 0.00 | 198.28 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/17/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| UN 32 | Solid commercial fertilizer | 88.00 | 0.00 | 0.00 | 0.00 | |
| Bypass/Canal | Surface water | 1.43 | 0.00 | 0.00 | 256.86 | 8,550,000.00 *gal* |
| Application event totals | | 89.43 | 0.00 | 0.00 | 256.86 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 07/30/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.64 | 0.00 | 0.00 | 270.45 | 3,812,760.00 *gal* |
| CCF 3 | Ground water | 11.03 | 0.00 | 0.00 | 4,223.78 | 4,183,020.00 *gal* |
| Application event totals | | 11.67 | 0.00 | 0.00 | 4,494.23 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.55 | 0.00 | 0.00 | 233.33 | 3,289,440.00 *gal* |
| CCF 3 | Ground water | 9.52 | 0.00 | 0.00 | 3,644.05 | 3,608,880.00 *gal* |
| Application event totals | | 10.07 | 0.00 | 0.00 | 3,877.38 | |

| Application date | Application method | Precipitation 24 hours prior | Precipitation during application | Precipitation 24 hours following |
|---|---|---|---|---|
| 08/29/2023 | Surface (irrigation) | No precipitation | No precipitation | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|---|---|---|---|---|---|---|
| CCF 2 | Ground water | 0.91 | 0.00 | 0.00 | 387.11 | 5,457,480.00 *gal* |
| Application event totals | | 0.91 | 0.00 | 0.00 | 387.11 | |

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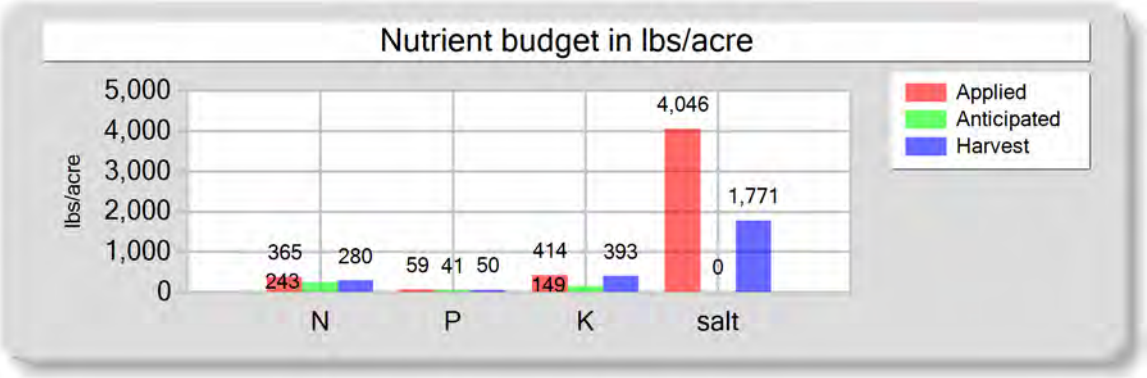
## B. NUTRIENT BUDGET

Field 1 - 11/04/2022: Wheat, silage, soft dough

Field name: Field 1 Crop: Wheat, silage, soft dough Plant date: 11/04/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 329.35 | 59.14 | 414.21 | 2,249.84 |
| Fresh water | 28.47 | 0.00 | 0.00 | 1,796.54 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 364.81 | 59.14 | 414.21 | 4,046.38 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 280.17 | 49.71 | 393.14 | 1,770.62 |
| Nutrient balance | 84.65 | 9.43 | 21.07 | 2,275.76 |
| Applied to removed ratio | 1.30 | 1.19 | 1.05 | 2.29 |

| Fresh water applied | |
|---|---|
| 40,063,500.00 | *gallons* |
| 1,475.40 | *acre-inches* |
| 21.38 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,279,000.00 | *gallons* |
| 231.23 | *acre-inches* |
| 3.35 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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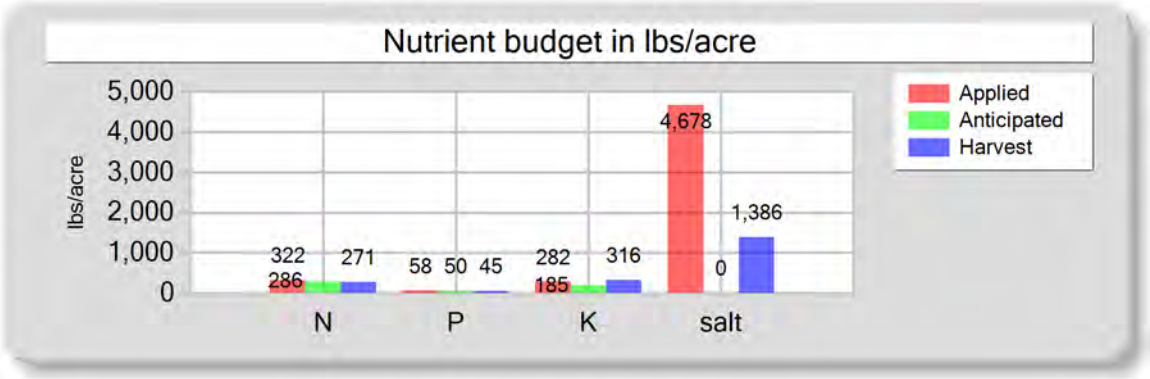
## Field 1 - 05/31/2023: Corn, silage

Field name: Field 1 Crop: Corn, silage Plant date: 05/31/2023




| | 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 | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 252.04 | 42.44 | 281.69 | 1,532.85 |
| Fresh water | 58.57 | 0.00 | 0.00 | 3,144.76 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 322.25 | 58.22 | 281.69 | 4,677.61 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 270.87 | 45.14 | 316.01 | 1,385.56 |
| Nutrient balance | 51.38 | 13.07 | -34.32 | 3,292.04 |
| Applied to removed ratio | 1.19 | 1.29 | 0.89 | 3.38 |

| Fresh water applied | |
|---|---|
| 72,021,840.00 | *gallons* |
| 2,652.32 | *acre-inches* |
| 38.44 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 5,538,000.00 | *gallons* |
| 203.95 | *acre-inches* |
| 2.96 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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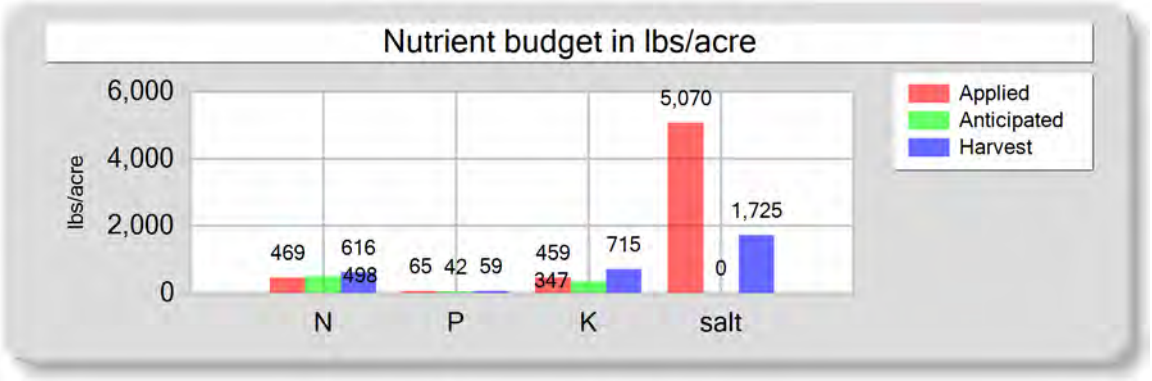
## Field 10 - 10/28/2022: Alfalfa, hay

Field name: Field 10 Crop: Alfalfa, hay Plant date: 10/28/2022




| | 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 | 422.28 | 65.24 | 458.82 | 2,623.75 |
| Fresh water | 32.47 | 0.00 | 0.00 | 2,446.57 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 468.75 | 65.24 | 458.82 | 5,070.32 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 616.20 | 59.46 | 715.29 | 1,724.90 |
| Nutrient balance | -147.45 | 5.78 | -256.47 | 3,345.42 |
| Applied to removed ratio | 0.76 | 1.10 | 0.64 | 2.94 |

| Fresh water applied | |
|---|---|
| 140,335,020.00 | *gallons* |
| 5,168.06 | *acre-inches* |
| 40.38 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 14,157,000.00 | *gallons* |
| 521.35 | *acre-inches* |
| 4.07 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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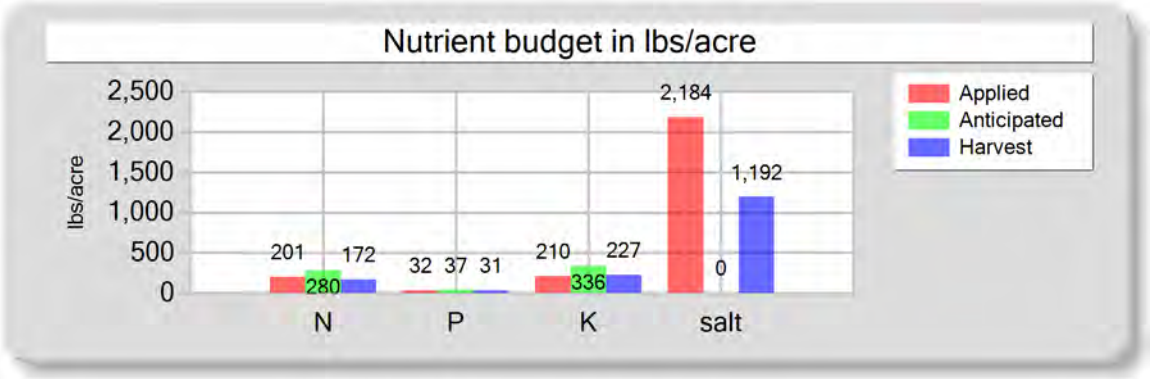
## Field 12 - 11/20/2022: Alfalfa/ Grass Mix

Field name: Field 12 Crop: Alfalfa/ Grass Mix Plant date: 11/20/2022




| | 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 | 185.51 | 31.57 | 210.33 | 1,222.47 |
| Fresh water | 8.84 | 0.00 | 0.00 | 961.39 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 201.35 | 31.57 | 210.33 | 2,183.85 |
| Anticipated crop nutrient removal | 280.00 | 36.80 | 336.00 | 0.00 |
| Actual crop nutrient removal | 171.62 | 30.65 | 226.79 | 1,192.39 |
| Nutrient balance | 29.72 | 0.92 | -16.46 | 991.47 |
| Applied to removed ratio | 1.17 | 1.03 | 0.93 | 1.83 |

| Fresh water applied | |
|---|---|
| 17,674,800.00 | *gallons* |
| 650.90 | *acre-inches* |
| 19.14 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 1,677,000.00 | *gallons* |
| 61.76 | *acre-inches* |
| 1.82 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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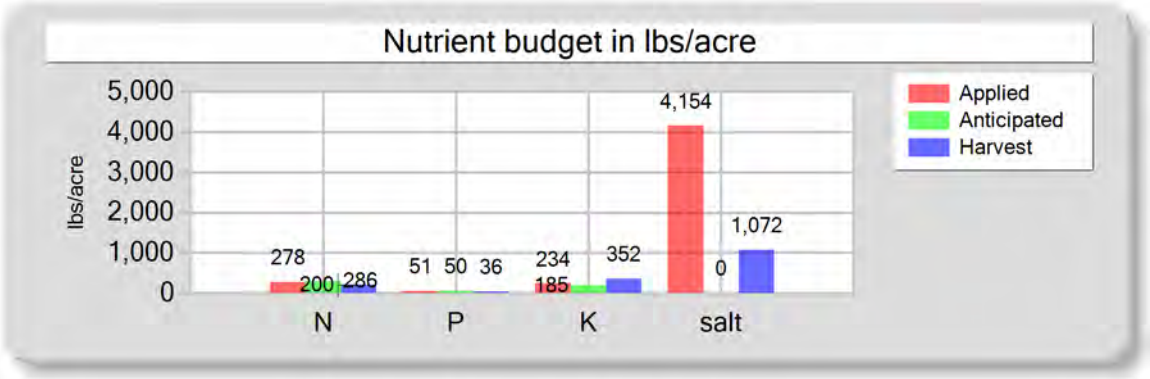
## Field 12 - 06/15/2023: Corn, silage

Field name: Field 12 Crop: Corn, silage Plant date: 06/15/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 207.50 | 35.61 | 233.66 | 1,265.64 |
| Fresh water | 58.78 | 0.00 | 0.00 | 2,888.00 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 277.92 | 51.39 | 233.66 | 4,153.64 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 200.38 | 35.62 | 351.78 | 1,071.91 |
| Nutrient balance | 77.54 | 15.77 | -118.12 | 3,081.73 |
| Applied to removed ratio | 1.39 | 1.44 | 0.66 | 3.87 |

| Fresh water applied | |
|---|---|
| 34,468,800.00 | *gallons* |
| 1,269.37 | *acre-inches* |
| 37.33 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 2,301,000.00 | *gallons* |
| 84.74 | *acre-inches* |
| 2.49 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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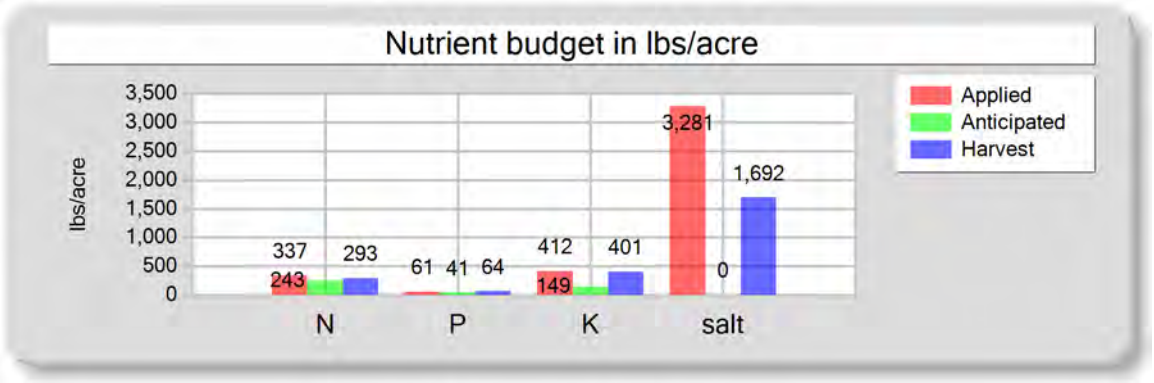
## Field 13 - 11/15/2022: Wheat, silage, soft dough

Field name: Field 13 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 | 319.52 | 60.98 | 412.40 | 2,160.57 |
| Fresh water | 10.50 | 0.00 | 0.00 | 1,120.55 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 337.02 | 60.98 | 412.40 | 3,281.12 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 292.81 | 64.18 | 401.11 | 1,691.89 |
| Nutrient balance | 44.21 | -3.20 | 11.29 | 1,589.23 |
| Applied to removed ratio | 1.15 | 0.95 | 1.03 | 1.94 |

| Fresh water applied | |
|---|---|
| 21,565,200.00 | *gallons* |
| 794.17 | *acre-inches* |
| 22.06 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 3,666,000.00 | *gallons* |
| 135.01 | *acre-inches* |
| 3.75 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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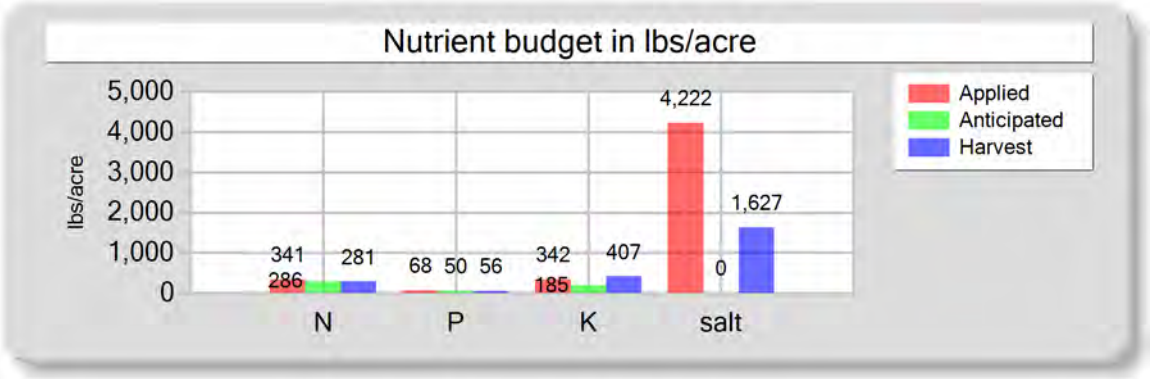
## Field 13 - 06/16/2023: Corn, silage

Field name: Field 13 Crop: Corn, silage Plant date: 06/16/2023




| | 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 | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 303.22 | 52.36 | 342.28 | 1,851.21 |
| Fresh water | 25.93 | 0.00 | 0.00 | 2,370.60 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 340.78 | 68.14 | 342.28 | 4,221.80 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 280.89 | 56.18 | 407.29 | 1,626.77 |
| Nutrient balance | 59.90 | 11.97 | -65.01 | 2,595.03 |
| Applied to removed ratio | 1.21 | 1.21 | 0.84 | 2.60 |

| Fresh water applied | |
|---|---|
| 37,170,300.00 | *gallons* |
| 1,368.86 | *acre-inches* |
| 38.02 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 3,588,000.00 | *gallons* |
| 132.13 | *acre-inches* |
| 3.67 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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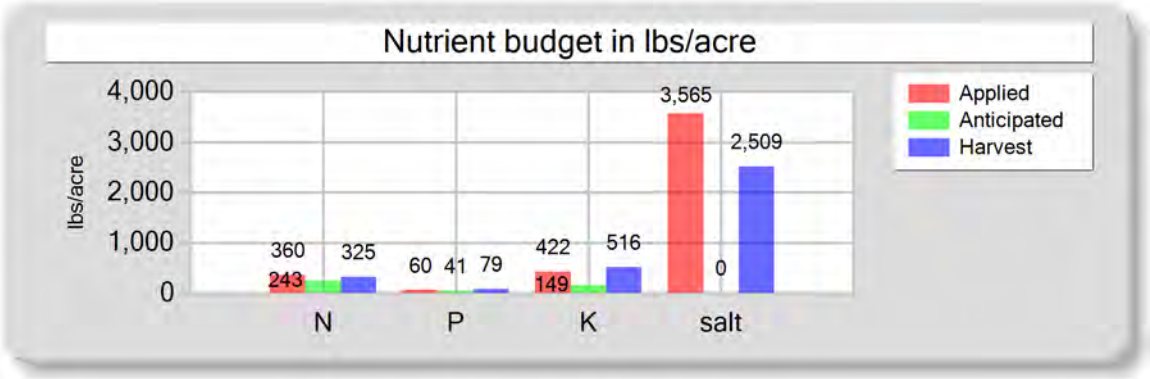
## Field 14 - 11/16/2022: Wheat, silage, soft dough

Field name: Field 14 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 | 336.57 | 60.36 | 422.30 | 2,297.23 |
| Fresh water | 16.17 | 0.00 | 0.00 | 1,267.96 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 359.74 | 60.36 | 422.30 | 3,565.19 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 325.29 | 79.00 | 515.82 | 2,509.41 |
| Nutrient balance | 34.45 | -18.64 | -93.53 | 1,055.78 |
| Applied to removed ratio | 1.11 | 0.76 | 0.82 | 1.42 |

| Fresh water applied | |
|---|---|
| 19,127,400.00 | *gallons* |
| 704.40 | *acre-inches* |
| 20.72 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 3,159,000.00 | *gallons* |
| 116.34 | *acre-inches* |
| 3.42 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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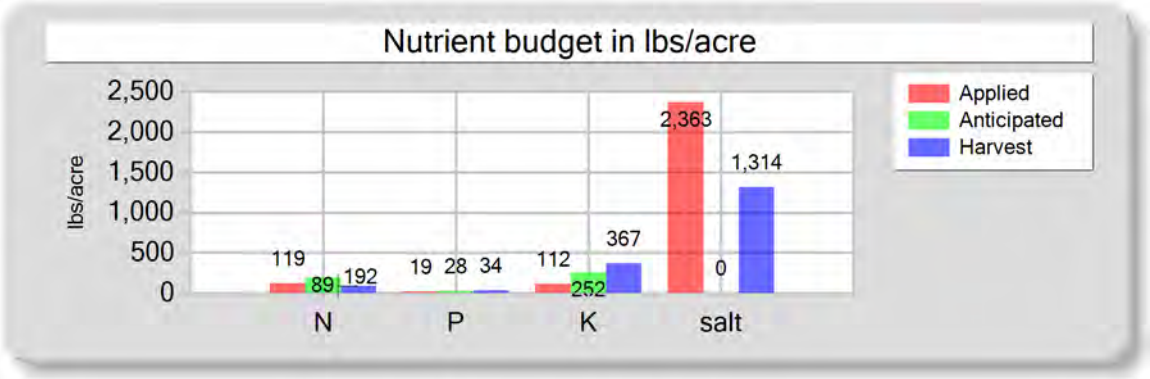
## Field 14 - 05/28/2023: Grass Blend (TEFT)

Field name: Field 14 Crop: Grass Blend (TEFT) Plant date: 05/28/2023




| | 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 | 92.40 | 19.11 | 112.45 | 581.22 |
| Fresh water | 20.10 | 0.00 | 0.00 | 1,782.25 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 119.50 | 19.11 | 112.45 | 2,363.47 |
| Anticipated crop nutrient removal | 192.00 | 27.60 | 252.00 | 0.00 |
| Actual crop nutrient removal | 88.78 | 34.42 | 366.88 | 1,313.59 |
| Nutrient balance | 30.72 | -15.31 | -254.43 | 1,049.88 |
| Applied to removed ratio | 1.35 | 0.56 | 0.31 | 1.80 |

| Fresh water applied | |
|---|---|
| 23,104,500.00 | *gallons* |
| 850.86 | *acre-inches* |
| 25.03 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 1,287,000.00 | *gallons* |
| 47.40 | *acre-inches* |
| 1.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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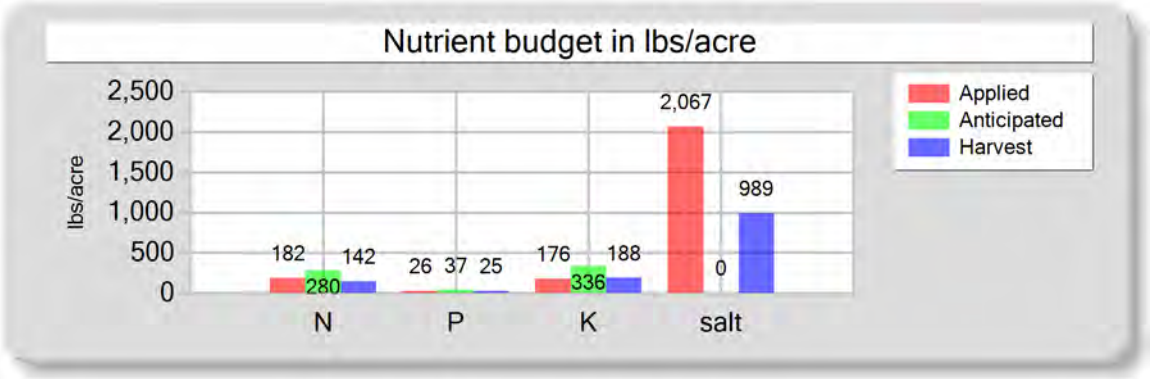
## Field 15 - 11/21/2022: Alfalfa/ Grass Mix

Field name: Field 15 Crop: Alfalfa/ Grass Mix Plant date: 11/21/2022




| | 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 | 155.31 | 26.43 | 176.09 | 1,023.46 |
| Fresh water | 12.98 | 0.00 | 0.00 | 1,043.76 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 182.29 | 26.43 | 176.09 | 2,067.22 |
| Anticipated crop nutrient removal | 280.00 | 36.80 | 336.00 | 0.00 |
| Actual crop nutrient removal | 142.31 | 25.41 | 188.05 | 988.70 |
| Nutrient balance | 39.98 | 1.02 | -11.96 | 1,078.53 |
| Applied to removed ratio | 1.28 | 1.04 | 0.94 | 2.09 |

| Fresh water applied | |
|---|---|
| 8,280,300.00 | *gallons* |
| 304.94 | *acre-inches* |
| 17.94 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 702,000.00 | *gallons* |
| 25.85 | *acre-inches* |
| 1.52 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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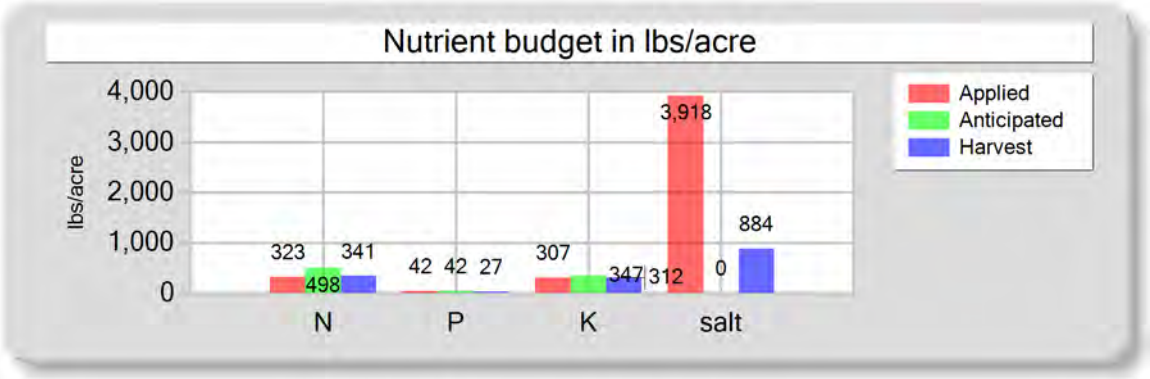
## Field 16 - 10/01/2017: Alfalfa, hay

Field name: Field 16 Crop: Alfalfa, hay Plant date: 10/01/2017




| | 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 | 291.33 | 41.76 | 306.77 | 1,732.26 |
| Fresh water | 25.08 | 0.00 | 0.00 | 2,186.21 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 323.42 | 41.76 | 306.77 | 3,918.47 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 341.08 | 26.69 | 312.41 | 883.68 |
| Nutrient balance | -17.66 | 15.07 | -5.64 | 3,034.80 |
| Applied to removed ratio | 0.95 | 1.56 | 0.98 | 4.43 |

| Fresh water applied | |
|---|---|
| 28,218,000.00 | *gallons* |
| 1,039.17 | *acre-inches* |
| 33.52 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 2,340,000.00 | *gallons* |
| 86.17 | *acre-inches* |
| 2.78 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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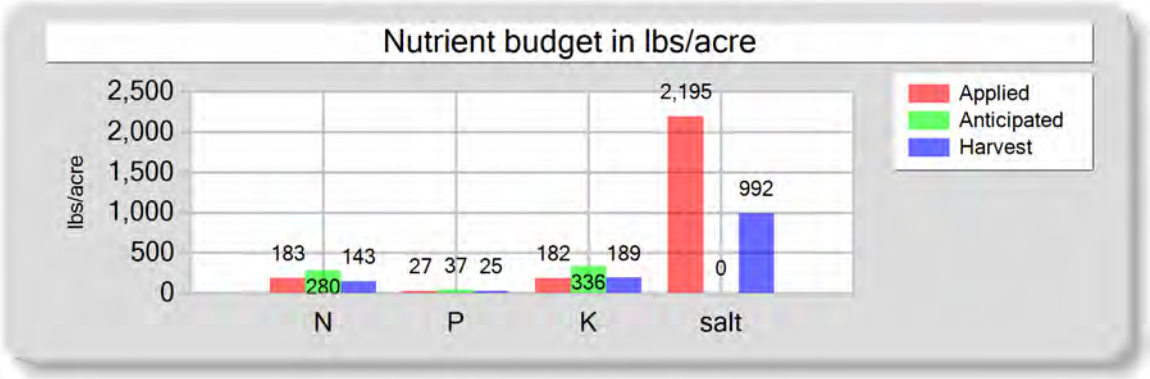
## Field 16 - 11/21/2022: Alfalfa/ Grass Mix

Field name: Field 16 Crop: Alfalfa/ Grass Mix Plant date: 11/21/2022




| | 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 | 160.88 | 27.38 | 182.40 | 1,060.14 |
| Fresh water | 15.42 | 0.00 | 0.00 | 1,134.82 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 183.30 | 27.38 | 182.40 | 2,194.96 |
| Anticipated crop nutrient removal | 280.00 | 36.80 | 336.00 | 0.00 |
| Actual crop nutrient removal | 142.71 | 25.48 | 188.58 | 991.50 |
| Nutrient balance | 40.59 | 1.89 | -6.18 | 1,203.46 |
| Applied to removed ratio | 1.28 | 1.07 | 0.97 | 2.21 |

| Fresh water applied | |
|---|---|
| 15,618,900.00 | *gallons* |
| 575.19 | *acre-inches* |
| 18.55 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 1,326,000.00 | *gallons* |
| 48.83 | *acre-inches* |
| 1.58 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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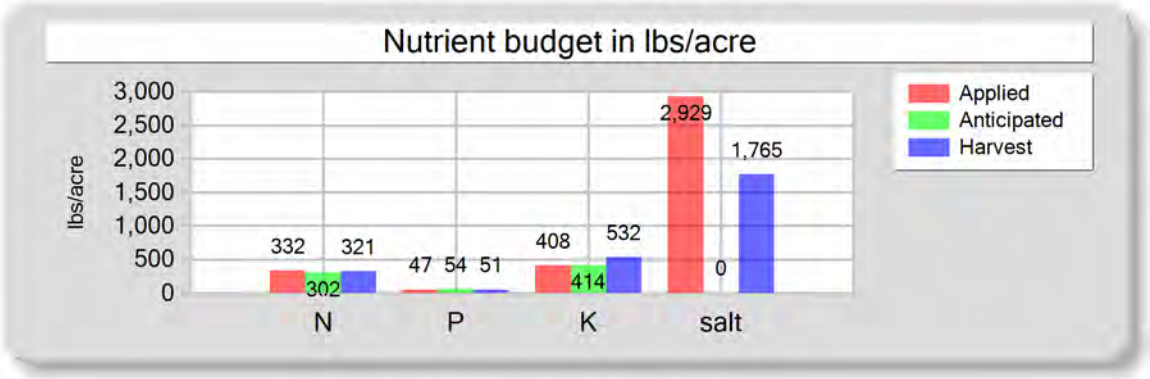
## Field 17E - 11/06/2022: Rye Grass

Field name: Field 17E  Crop: Rye Grass  Plant date: 11/06/2022




| | 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 | 316.04 | 46.99 | 408.08 | 2,018.02 |
| Fresh water | 8.62 | 0.00 | 0.00 | 911.35 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 331.66 | 46.99 | 408.08 | 2,929.38 |
| Anticipated crop nutrient removal | 302.40 | 54.00 | 414.00 | 0.00 |
| Actual crop nutrient removal | 320.89 | 50.67 | 532.00 | 1,765.23 |
| Nutrient balance | 10.77 | -3.68 | -123.92 | 1,164.15 |
| Applied to removed ratio | 1.03 | 0.93 | 0.77 | 1.66 |

| Fresh water applied | |
|---|---|
| 40,775,700.00 | *gallons* |
| 1,501.63 | *acre-inches* |
| 18.54 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,279,000.00 | *gallons* |
| 231.23 | *acre-inches* |
| 2.85 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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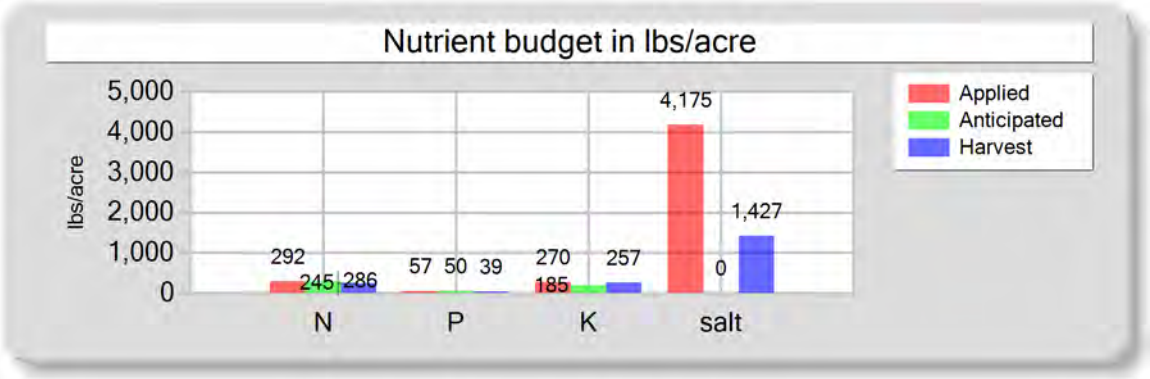
## Field 17E - 06/13/2023: Corn, silage

Field name: Field 17E  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 | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 242.00 | 40.73 | 270.45 | 1,471.74 |
| Fresh water | 38.03 | 0.00 | 0.00 | 2,702.89 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 291.67 | 56.51 | 270.45 | 4,174.63 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 245.42 | 39.04 | 256.58 | 1,426.52 |
| Nutrient balance | 46.25 | 17.47 | 13.87 | 2,748.11 |
| Applied to removed ratio | 1.19 | 1.45 | 1.05 | 2.93 |

| Fresh water applied | |
|---|---|
| 82,956,900.00 | *gallons* |
| 3,055.02 | *acre-inches* |
| 37.72 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,240,000.00 | *gallons* |
| 229.80 | *acre-inches* |
| 2.84 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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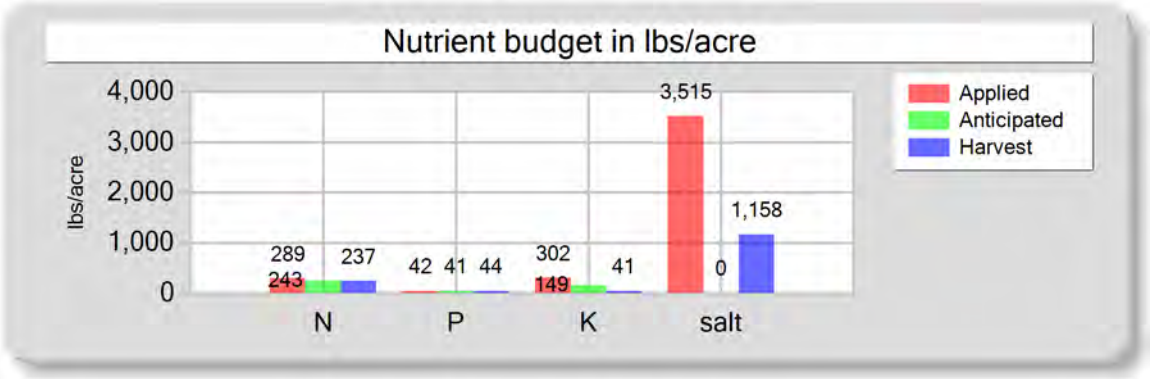
## Field 18W - 11/23/2022: Wheat, silage, soft dough

Field name: Field 18W  Crop: Wheat, silage, soft dough  Plant date: 11/23/2022




| | 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 | 231.44 | 42.37 | 301.79 | 1,601.88 |
| Fresh water | 50.93 | 0.00 | 0.00 | 1,913.28 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 289.36 | 42.37 | 301.79 | 3,515.17 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 236.50 | 44.34 | 40.65 | 1,158.49 |
| Nutrient balance | 52.86 | -1.98 | 261.14 | 2,356.67 |
| Applied to removed ratio | 1.22 | 0.96 | 7.42 | 3.03 |

| Fresh water applied | |
|---|---|
| 51,582,600.00 | *gallons* |
| 1,899.61 | *acre-inches* |
| 22.09 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 5,577,000.00 | *gallons* |
| 205.38 | *acre-inches* |
| 2.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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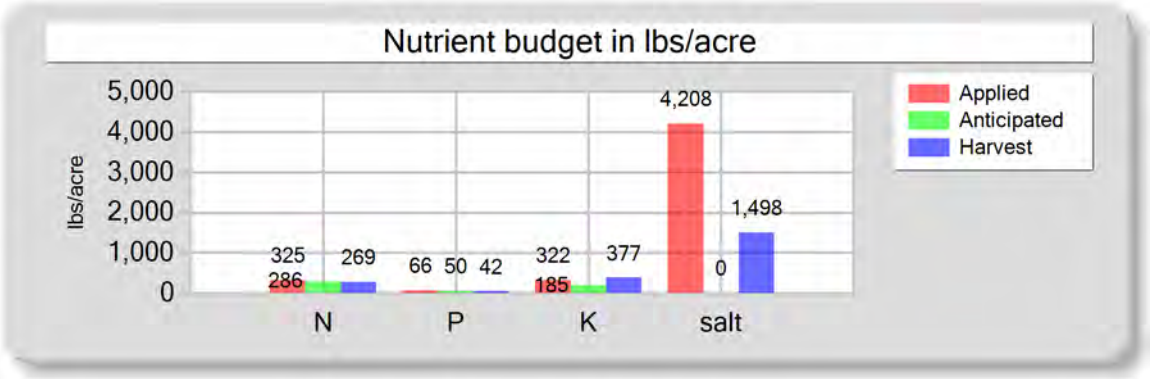
## Field 18W - 05/17/2023: Corn, silage

Field name: Field 18W  Crop: Corn, silage  Plant date: 05/17/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 281.45 | 50.33 | 322.16 | 1,727.67 |
| Fresh water | 31.73 | 0.00 | 0.00 | 2,480.74 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 324.82 | 66.11 | 322.16 | 4,208.41 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 269.27 | 41.89 | 376.97 | 1,498.26 |
| Nutrient balance | 55.56 | 24.22 | -54.82 | 2,710.15 |
| Applied to removed ratio | 1.21 | 1.58 | 0.85 | 2.81 |

| Fresh water applied | |
|---|---|
| 92,775,900.00 | *gallons* |
| 3,416.62 | *acre-inches* |
| 39.73 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 8,307,000.00 | *gallons* |
| 305.92 | *acre-inches* |
| 3.56 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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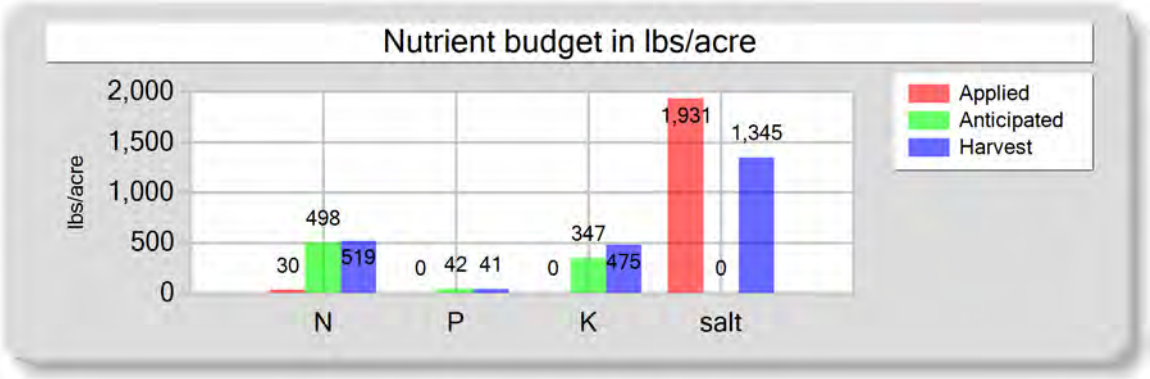
## Field 19 - 10/01/2020: Alfalfa, hay

Field name: Field 19 Crop: Alfalfa, hay Plant date: 10/01/2020




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 15.70 | 0.00 | 0.00 | 1,931.36 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 29.70 | 0.00 | 0.00 | 1,931.36 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 519.12 | 40.63 | 475.48 | 1,344.94 |
| Nutrient balance | -489.42 | -40.63 | -475.48 | 586.43 |
| Applied to removed ratio | 0.06 | 0.00 | 0.00 | 1.44 |

| Fresh water applied | |
|---|---|
| 99,797,880.00 | *gallons* |
| 3,675.22 | *acre-inches* |
| 39.95 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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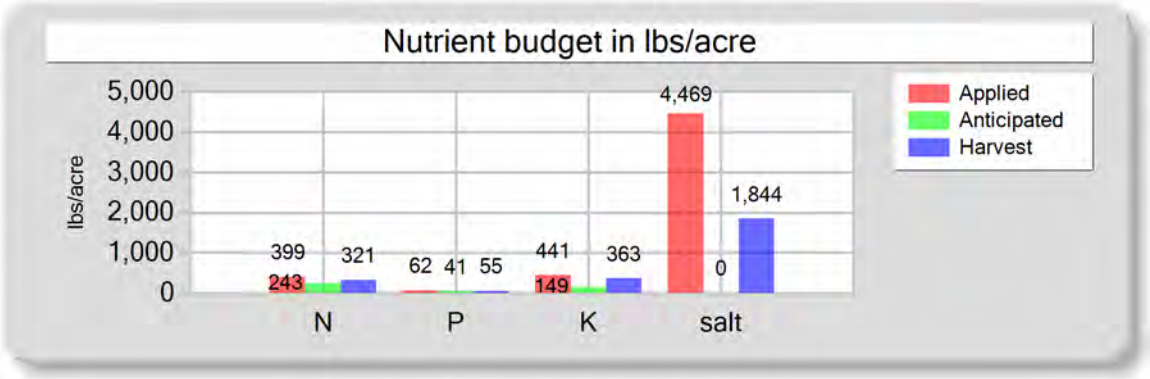
## Field 2 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 2 Crop: Wheat, silage, soft dough Plant date: 11/05/2022




| | 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 | 343.96 | 62.38 | 440.79 | 2,365.64 |
| Fresh water | 47.75 | 0.00 | 0.00 | 2,103.34 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 398.71 | 62.38 | 440.79 | 4,468.97 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 320.58 | 54.84 | 362.76 | 1,843.68 |
| Nutrient balance | 78.12 | 7.54 | 78.03 | 2,625.29 |
| Applied to removed ratio | 1.24 | 1.14 | 1.22 | 2.42 |

| Fresh water applied | |
|---|---|
| 49,768,200.00 | *gallons* |
| 1,832.79 | *acre-inches* |
| 23.80 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,371,000.00 | *gallons* |
| 271.45 | *acre-inches* |
| 3.53 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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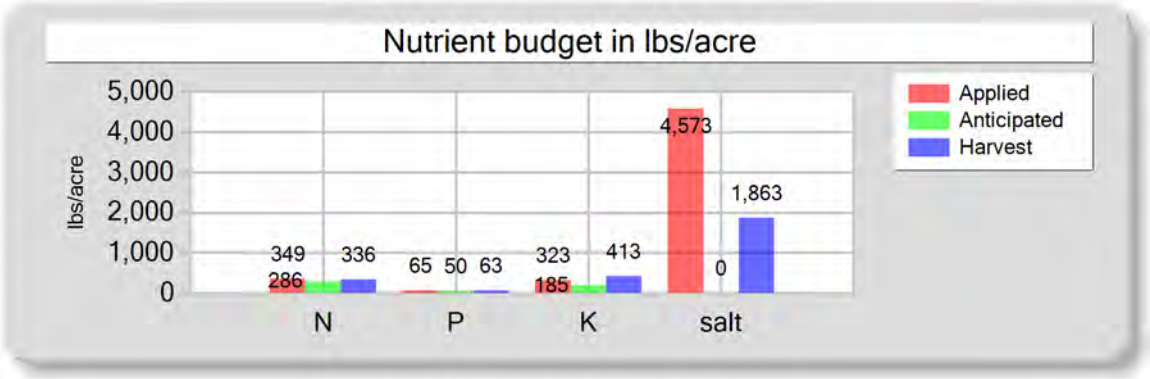
## Field 2 - 06/08/2023: Corn, silage

Field name: Field 2 Crop: Corn, silage Plant date: 06/08/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 288.04 | 48.90 | 322.98 | 1,753.99 |
| Fresh water | 49.46 | 0.00 | 0.00 | 2,818.96 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 349.14 | 64.68 | 322.98 | 4,572.96 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 335.88 | 62.98 | 412.85 | 1,862.92 |
| Nutrient balance | 13.26 | 1.71 | -89.87 | 2,710.04 |
| Applied to removed ratio | 1.04 | 1.03 | 0.78 | 2.45 |

| Fresh water applied | |
|---|---|
| 78,785,820.00 | *gallons* |
| 2,901.41 | *acre-inches* |
| 37.68 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,137,000.00 | *gallons* |
| 262.83 | *acre-inches* |
| 3.41 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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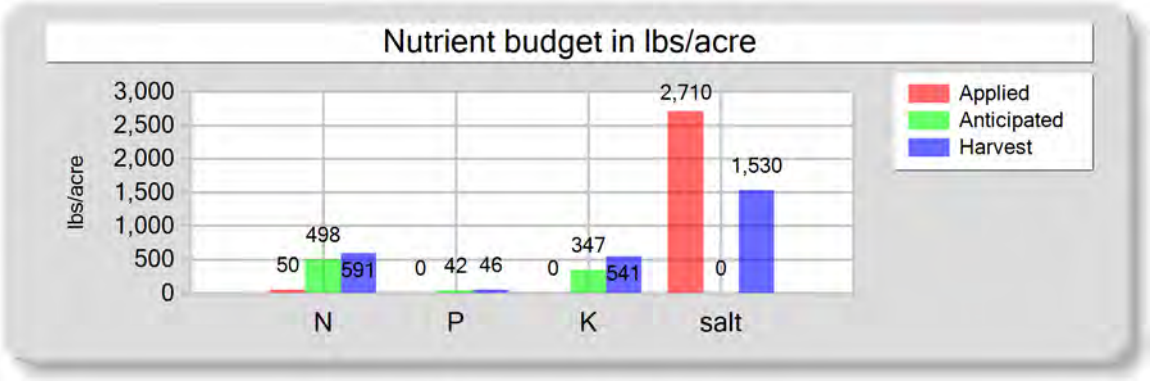
## Field 20 - 10/01/2018: Alfalfa, hay

Field name: Field 20 Crop: Alfalfa, hay Plant date: 10/01/2018




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 35.55 | 0.00 | 0.00 | 2,709.83 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 49.55 | 0.00 | 0.00 | 2,709.83 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 590.63 | 46.22 | 540.98 | 1,530.21 |
| Nutrient balance | -541.08 | -46.22 | -540.98 | 1,179.63 |
| Applied to removed ratio | 0.08 | 0.00 | 0.00 | 1.77 |

| Fresh water applied | |
|---|---|
| 90,269,220.00 | *gallons* |
| 3,324.31 | *acre-inches* |
| 43.17 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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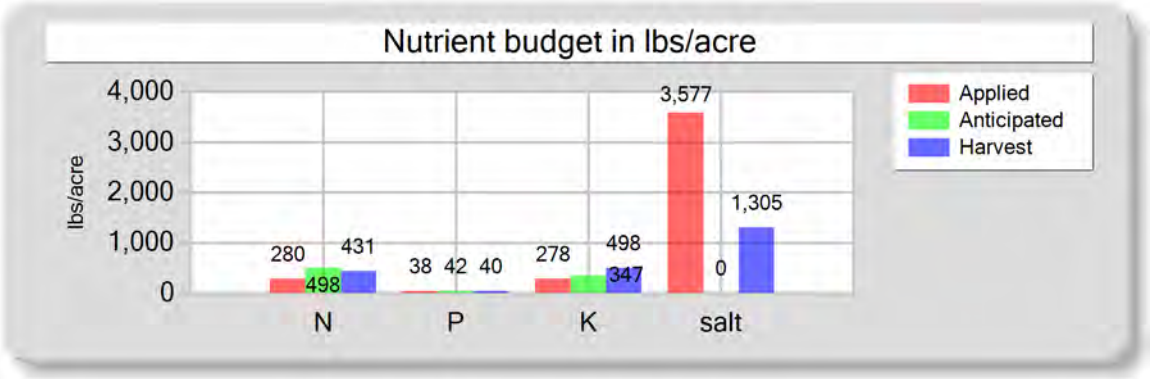
## Field 21 - 09/01/2016: Alfalfa, hay

Field name: Field 21 Crop: Alfalfa, hay Plant date: 09/01/2016




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 264.08 | 37.86 | 278.06 | 1,570.18 |
| Fresh water | 8.64 | 0.00 | 0.00 | 2,007.24 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 279.71 | 37.86 | 278.06 | 3,577.42 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 431.31 | 39.56 | 497.67 | 1,305.47 |
| Nutrient balance | -151.60 | -1.70 | -219.60 | 2,271.95 |
| Applied to removed ratio | 0.65 | 0.96 | 0.56 | 2.74 |

| Fresh water applied | |
|---|---|
| 57,849,480.00 | *gallons* |
| 2,130.40 | *acre-inches* |
| 37.38 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 3,900,000.00 | *gallons* |
| 143.62 | *acre-inches* |
| 2.52 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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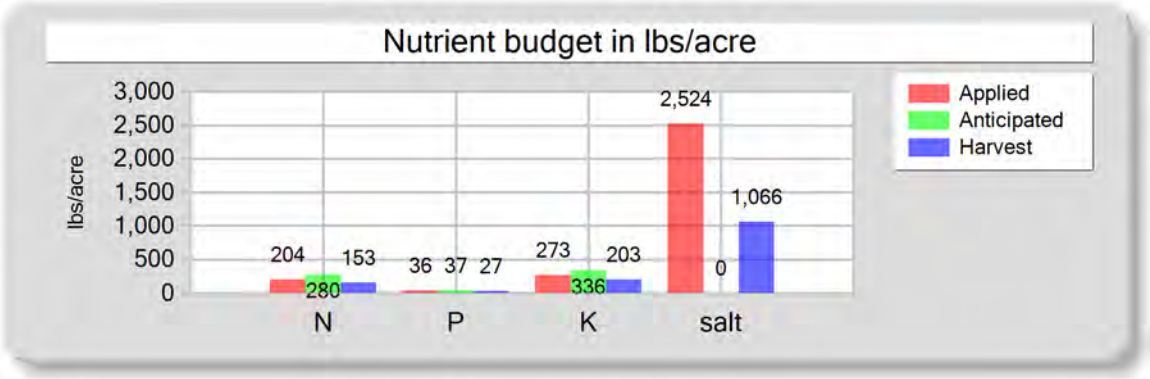
## Field 21 - 11/29/2022: Alfalfa/ Grass Mix

Field name: Field 21 Crop: Alfalfa/ Grass Mix Plant date: 11/29/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 182.37 | 36.04 | 272.90 | 1,330.65 |
| Fresh water | 14.31 | 0.00 | 0.00 | 1,193.75 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 203.68 | 36.04 | 272.90 | 2,524.40 |
| Anticipated crop nutrient removal | 280.00 | 36.80 | 336.00 | 0.00 |
| Actual crop nutrient removal | 153.46 | 27.40 | 202.79 | 1,066.19 |
| Nutrient balance | 50.22 | 8.64 | 70.11 | 1,458.21 |
| Applied to removed ratio | 1.33 | 1.32 | 1.35 | 2.37 |

| Fresh water applied | |
|---|---|
| 31,799,280.00 | *gallons* |
| 1,171.06 | *acre-inches* |
| 20.54 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 3,081,000.00 | *gallons* |
| 113.46 | *acre-inches* |
| 1.99 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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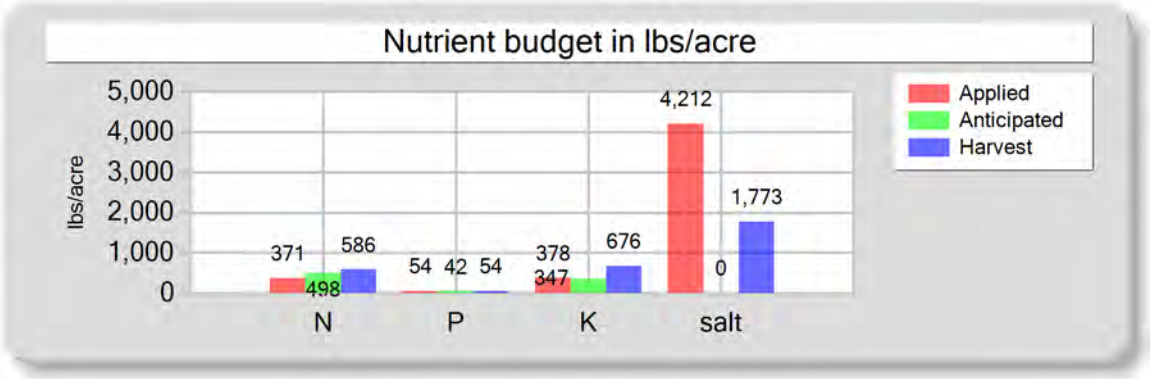
## Field 22 - 10/01/2019: Alfalfa, hay

Field name: Field 22 Crop: Alfalfa, hay Plant date: 10/01/2019




| | 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 | 347.43 | 53.69 | 377.53 | 2,158.98 |
| Fresh water | 9.57 | 0.00 | 0.00 | 2,053.42 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 371.01 | 53.69 | 377.53 | 4,212.40 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 585.88 | 53.73 | 676.02 | 1,773.32 |
| Nutrient balance | -214.88 | -0.05 | -298.49 | 2,439.08 |
| Applied to removed ratio | 0.63 | 1.00 | 0.56 | 2.38 |

| Fresh water applied | |
|---|---|
| 84,939,900.00 | *gallons* |
| 3,128.05 | *acre-inches* |
| 41.71 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,825,000.00 | *gallons* |
| 251.34 | *acre-inches* |
| 3.35 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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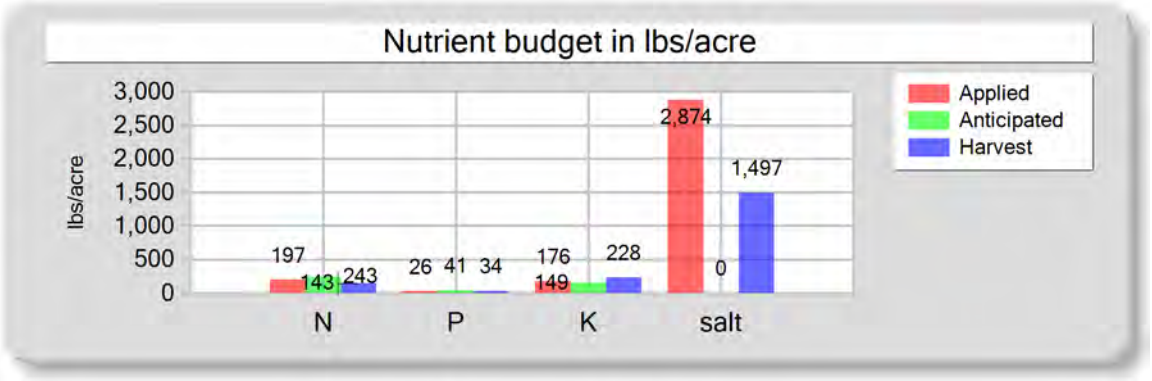
## Field 23W - 11/06/2022: Wheat, silage, soft dough

Field name: Field 23W  Crop: Wheat, silage, soft dough  Plant date: 11/06/2022




| | 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 | 155.31 | 26.43 | 176.09 | 1,023.46 |
| Fresh water | 34.93 | 0.00 | 0.00 | 1,850.15 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 197.24 | 26.43 | 176.09 | 2,873.61 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 143.30 | 33.72 | 227.59 | 1,496.64 |
| Nutrient balance | 53.94 | -7.29 | -51.50 | 1,376.97 |
| Applied to removed ratio | 1.38 | 0.78 | 0.77 | 1.92 |

| Fresh water applied | |
|---|---|
| 33,945,600.00 | *gallons* |
| 1,250.10 | *acre-inches* |
| 18.38 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 2,808,000.00 | *gallons* |
| 103.41 | *acre-inches* |
| 1.52 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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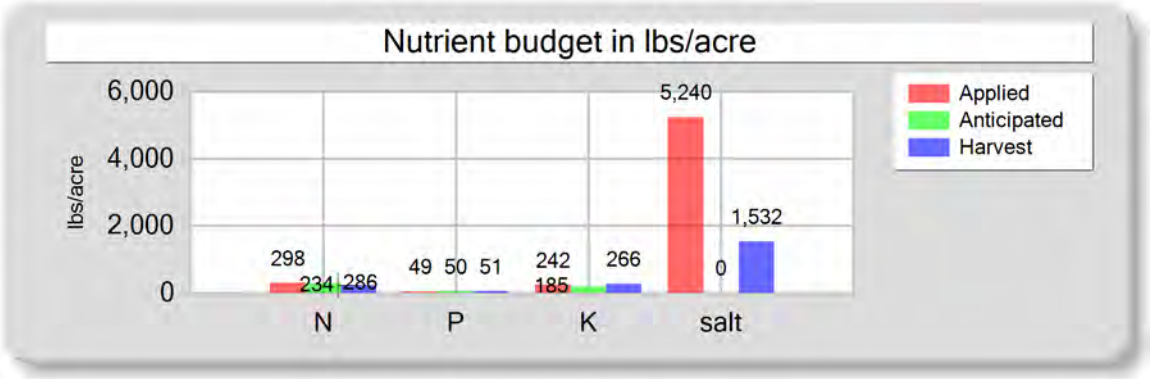
## Field 23W - 06/12/2023: Corn, silage

Field name: Field 23W  Crop: Corn, silage  Plant date: 06/12/2023




| | 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 | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 230.21 | 33.00 | 242.41 | 1,368.83 |
| Fresh water | 56.21 | 0.00 | 0.00 | 3,871.18 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 298.06 | 48.78 | 242.41 | 5,240.00 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 234.30 | 50.66 | 265.96 | 1,531.61 |
| Nutrient balance | 63.76 | -1.88 | -23.55 | 3,708.40 |
| Applied to removed ratio | 1.27 | 0.96 | 0.91 | 3.42 |

| Fresh water applied | |
|---|---|
| 70,710,300.00 | *gallons* |
| 2,604.02 | *acre-inches* |
| 38.29 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 4,056,000.00 | *gallons* |
| 149.37 | *acre-inches* |
| 2.20 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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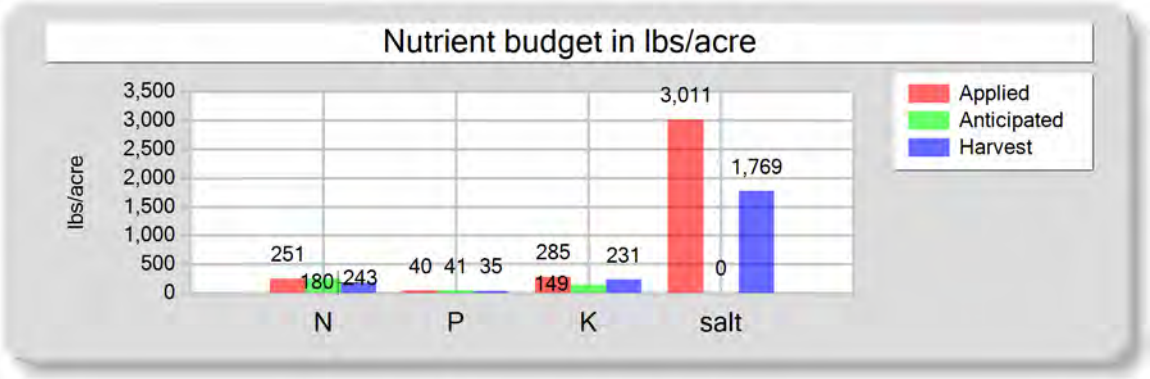
## Field 24E - 11/07/2022: Wheat, silage, soft dough

Field name: Field 24E  Crop: Wheat, silage, soft dough  Plant date: 11/07/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 218.85 | 40.03 | 284.94 | 1,513.92 |
| Fresh water | 25.25 | 0.00 | 0.00 | 1,497.26 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 251.10 | 40.03 | 284.94 | 3,011.18 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 179.93 | 35.20 | 230.77 | 1,769.33 |
| Nutrient balance | 71.18 | 4.83 | 54.17 | 1,241.85 |
| Applied to removed ratio | 1.40 | 1.14 | 1.23 | 1.70 |

| Fresh water applied | |
|---|---|
| 31,728,000.00 | *gallons* |
| 1,168.43 | *acre-inches* |
| 16.69 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 4,290,000.00 | *gallons* |
| 157.99 | *acre-inches* |
| 2.26 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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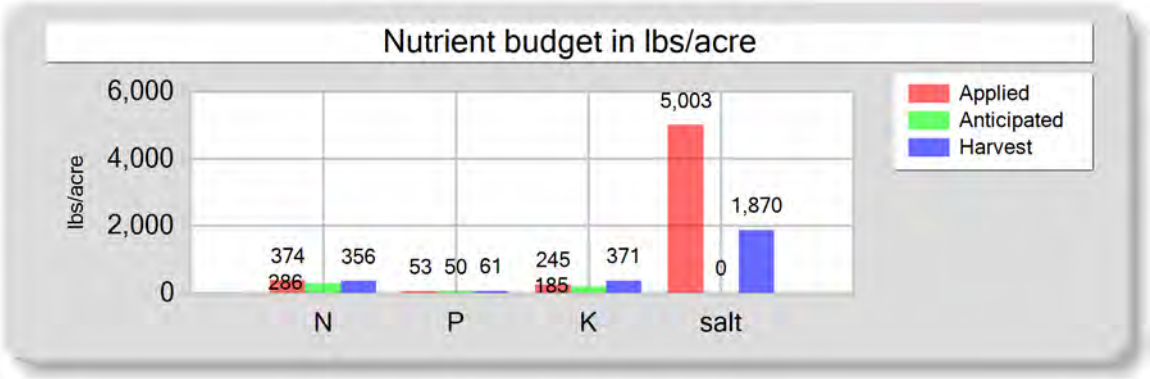
## Field 24E - 06/01/2023: Corn, silage

Field name: Field 24E  Crop: Corn, silage  Plant date: 06/01/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 96.16 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 219.00 | 36.83 | 244.66 | 1,331.67 |
| Fresh water | 51.73 | 0.00 | 0.00 | 3,671.69 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 373.89 | 52.61 | 244.66 | 5,003.36 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 355.59 | 60.53 | 370.72 | 1,870.24 |
| Nutrient balance | 18.30 | -7.91 | -126.06 | 3,133.11 |
| Applied to removed ratio | 1.05 | 0.87 | 0.66 | 2.68 |

| Fresh water applied | |
|---|---|
| 73,934,100.00 | *gallons* |
| 2,722.74 | *acre-inches* |
| 38.90 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 4,875,000.00 | *gallons* |
| 179.53 | *acre-inches* |
| 2.56 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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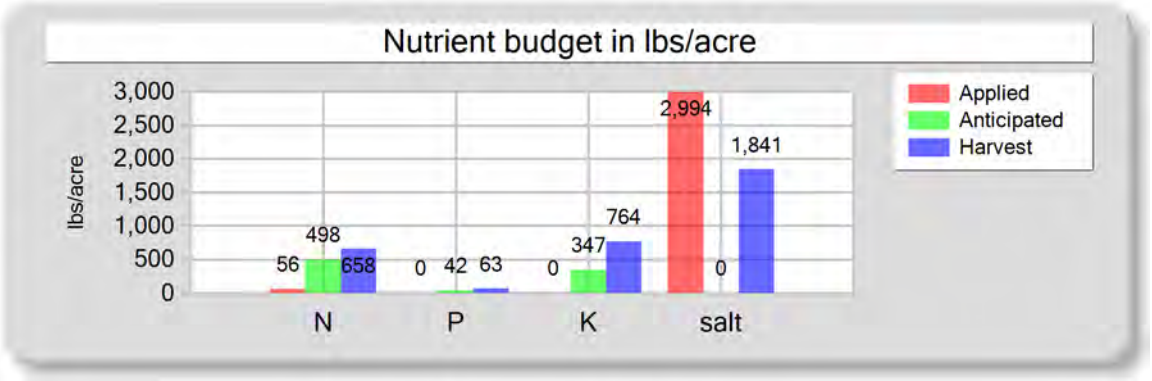
## Field 3 - 10/05/2021: Alfalfa, hay

Field name: Field 3 Crop: Alfalfa, hay Plant date: 10/05/2021




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 42.44 | 0.00 | 0.00 | 2,993.61 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 56.44 | 0.00 | 0.00 | 2,993.61 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 657.75 | 63.47 | 763.53 | 1,841.22 |
| Nutrient balance | -601.31 | -63.47 | -763.53 | 1,152.39 |
| Applied to removed ratio | 0.09 | 0.00 | 0.00 | 1.63 |

| Fresh water applied | |
|---|---|
| 87,718,260.00 | *gallons* |
| 3,230.37 | *acre-inches* |
| 44.87 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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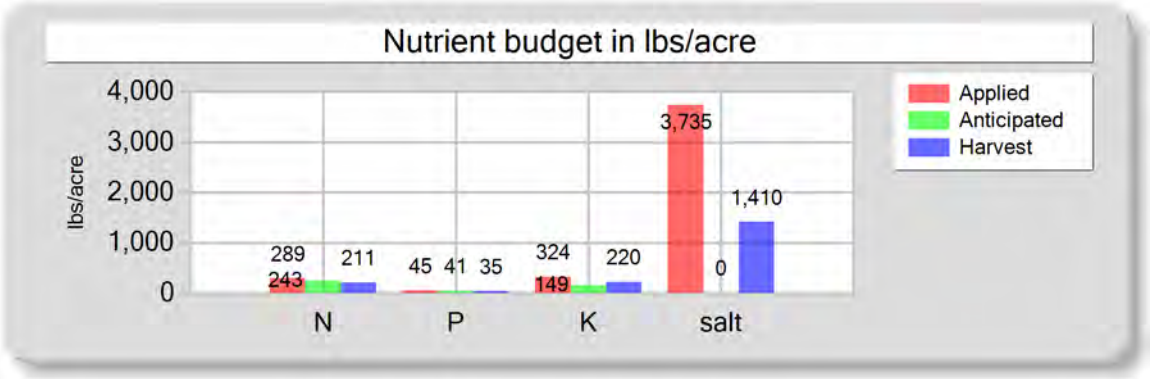
## Field 4 - 11/03/2022: Wheat, silage, soft dough

Field name: Field 4 Crop: Wheat, silage, soft dough Plant date: 11/03/2022




| | 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 | 247.25 | 45.36 | 323.71 | 1,713.88 |
| Fresh water | 35.05 | 0.00 | 0.00 | 2,020.75 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 289.30 | 45.36 | 323.71 | 3,734.63 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 210.76 | 35.13 | 219.55 | 1,409.83 |
| Nutrient balance | 78.54 | 10.23 | 104.16 | 2,324.80 |
| Applied to removed ratio | 1.37 | 1.29 | 1.47 | 2.65 |

| Fresh water applied | |
|---|---|
| 43,936,620.00 | *gallons* |
| 1,618.04 | *acre-inches* |
| 21.01 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 5,343,000.00 | *gallons* |
| 196.76 | *acre-inches* |
| 2.56 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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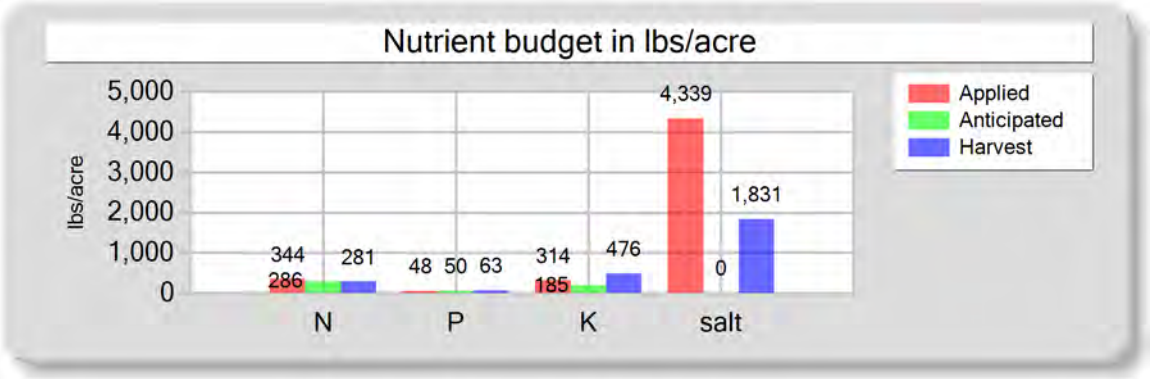
## Field 4 - 05/10/2023: Corn, silage

Field name: Field 4 Crop: Corn, silage Plant date: 05/10/2023




| | 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 | 279.70 | 47.55 | 313.79 | 1,703.57 |
| Fresh water | 56.89 | 0.00 | 0.00 | 2,635.07 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 343.59 | 47.55 | 313.79 | 4,338.64 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 281.27 | 63.14 | 476.44 | 1,831.49 |
| Nutrient balance | 62.32 | -15.59 | -162.65 | 2,507.15 |
| Applied to removed ratio | 1.22 | 0.75 | 0.66 | 2.37 |

| Fresh water applied | |
|---|---|
| 73,786,680.00 | *gallons* |
| 2,717.31 | *acre-inches* |
| 35.29 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,942,000.00 | *gallons* |
| 255.65 | *acre-inches* |
| 3.32 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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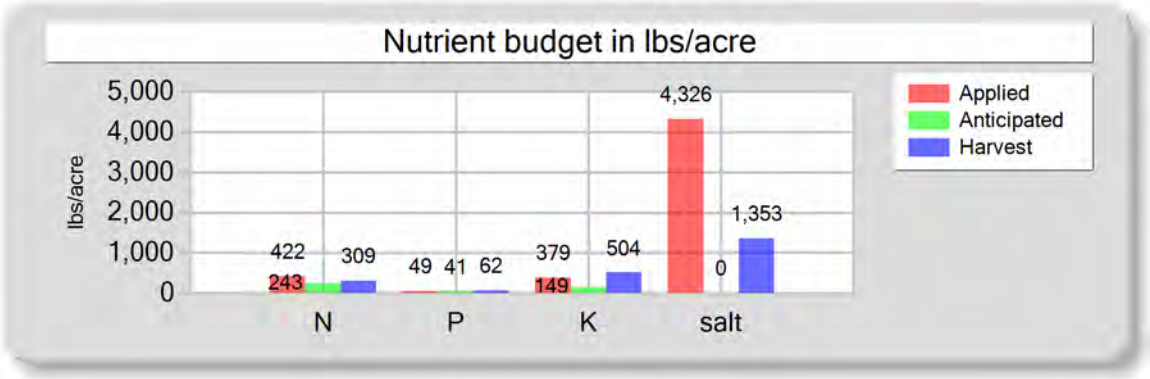
## Field 5 - 11/19/2022: Wheat, silage, soft dough

Field name: Field 5 Crop: Wheat, silage, soft dough Plant date: 11/19/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 339.09 | 48.74 | 378.96 | 2,093.06 |
| Fresh water | 76.01 | 0.00 | 0.00 | 2,233.22 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 422.11 | 48.74 | 378.96 | 4,326.28 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 309.45 | 61.89 | 503.97 | 1,353.33 |
| Nutrient balance | 112.65 | -13.15 | -125.00 | 2,972.95 |
| Applied to removed ratio | 1.36 | 0.79 | 0.75 | 3.20 |

| Fresh water applied | |
|---|---|
| 41,344,560.00 | *gallons* |
| 1,522.58 | *acre-inches* |
| 19.77 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 6,240,000.00 | *gallons* |
| 229.80 | *acre-inches* |
| 2.98 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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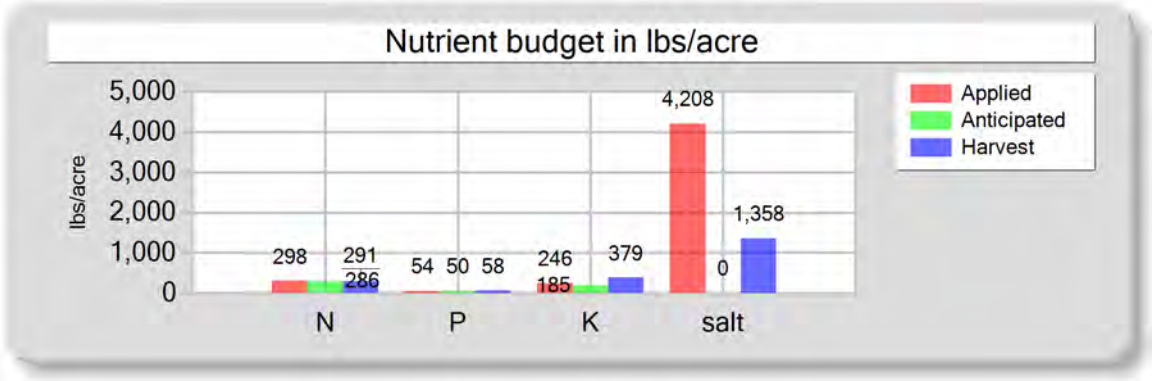
## Field 5 - 05/24/2023: Corn, silage

Field name: Field 5 Crop: Corn, silage Plant date: 05/24/2023




| | 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 | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 215.19 | 38.30 | 245.87 | 1,319.99 |
| Fresh water | 71.55 | 0.00 | 0.00 | 2,888.37 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 298.38 | 54.08 | 245.87 | 4,208.36 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 291.17 | 58.23 | 378.52 | 1,357.78 |
| Nutrient balance | 7.21 | -4.15 | -132.65 | 2,850.59 |
| Applied to removed ratio | 1.02 | 0.93 | 0.65 | 3.10 |

| Fresh water applied | |
|---|---|
| 83,258,520.00 | *gallons* |
| 3,066.13 | *acre-inches* |
| 39.82 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 5,655,000.00 | *gallons* |
| 208.25 | *acre-inches* |
| 2.70 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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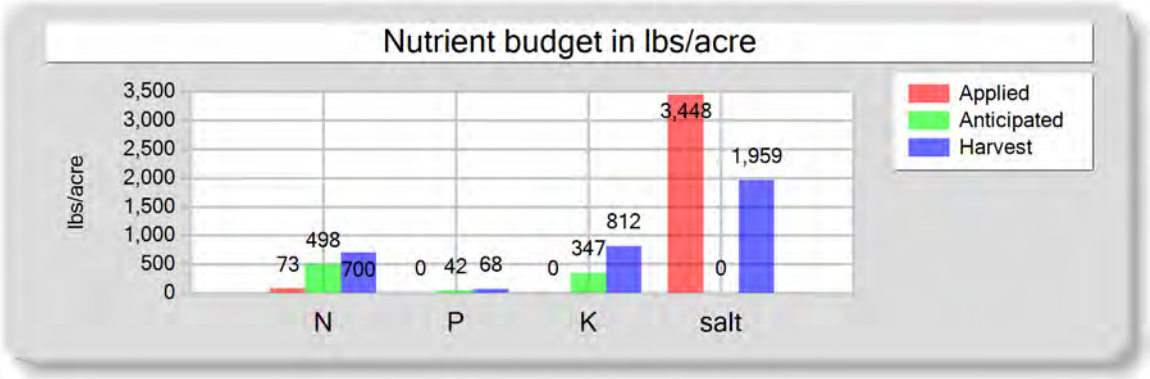
## Field 6 - 10/01/2018: Alfalfa, hay

Field name: Field 6 Crop: Alfalfa, hay Plant date: 10/01/2018




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 59.17 | 0.00 | 0.00 | 3,448.11 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 73.17 | 0.00 | 0.00 | 3,448.11 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 699.66 | 67.51 | 812.18 | 1,958.54 |
| Nutrient balance | -626.50 | -67.51 | -812.18 | 1,489.57 |
| Applied to removed ratio | 0.10 | 0.00 | 0.00 | 1.76 |

| Fresh water applied | |
|---|---|
| 37,003,500.00 | *gallons* |
| 1,362.71 | *acre-inches* |
| 45.42 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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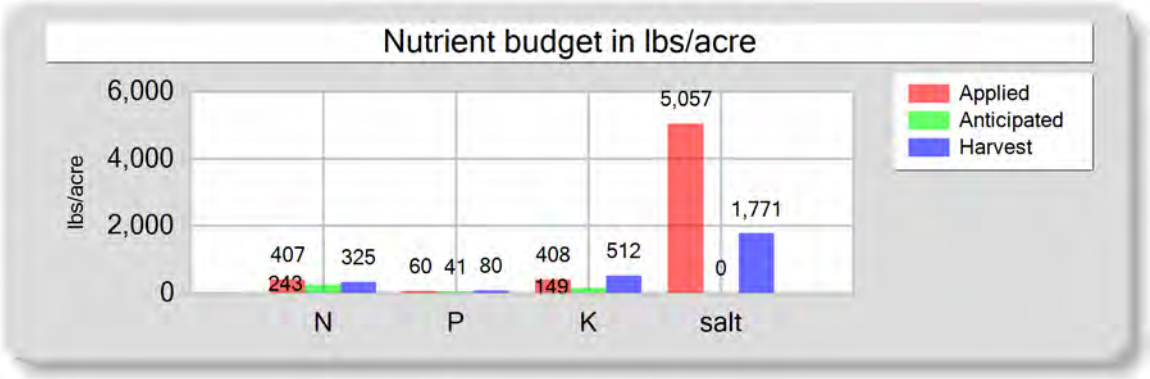
## Field 7 - 11/14/2022: Wheat, silage, soft dough

Field name: Field 7 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 | 316.47 | 60.46 | 407.51 | 2,135.98 |
| Fresh water | 83.77 | 0.00 | 0.00 | 2,920.66 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 407.24 | 60.46 | 407.51 | 5,056.64 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 324.79 | 80.24 | 512.02 | 1,771.06 |
| Nutrient balance | 82.45 | -19.78 | -104.51 | 3,285.58 |
| Applied to removed ratio | 1.25 | 0.75 | 0.80 | 2.86 |

| Fresh water applied | |
|---|---|
| 55,104,960.00 | *gallons* |
| 2,029.33 | *acre-inches* |
| 21.36 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 9,633,000.00 | *gallons* |
| 354.75 | *acre-inches* |
| 3.73 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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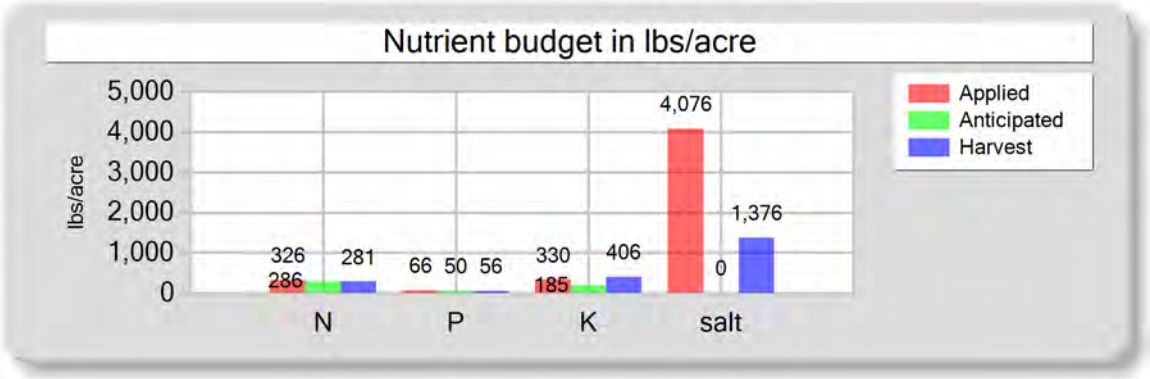
## Field 7 - 06/21/2023: Corn, silage

Field name: Field 7 Crop: Corn, silage Plant date: 06/21/2023




| | 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 | 4.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 293.05 | 50.15 | 329.62 | 1,786.65 |
| Fresh water | 21.18 | 0.00 | 0.00 | 2,289.00 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 325.87 | 65.93 | 329.62 | 4,075.65 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 281.27 | 56.25 | 406.28 | 1,375.74 |
| Nutrient balance | 44.59 | 9.68 | -76.66 | 2,699.91 |
| Applied to removed ratio | 1.16 | 1.17 | 0.81 | 2.96 |

| Fresh water applied | |
|---|---|
| 101,193,300.00 | *gallons* |
| 3,726.61 | *acre-inches* |
| 39.23 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 9,048,000.00 | *gallons* |
| 333.21 | *acre-inches* |
| 3.51 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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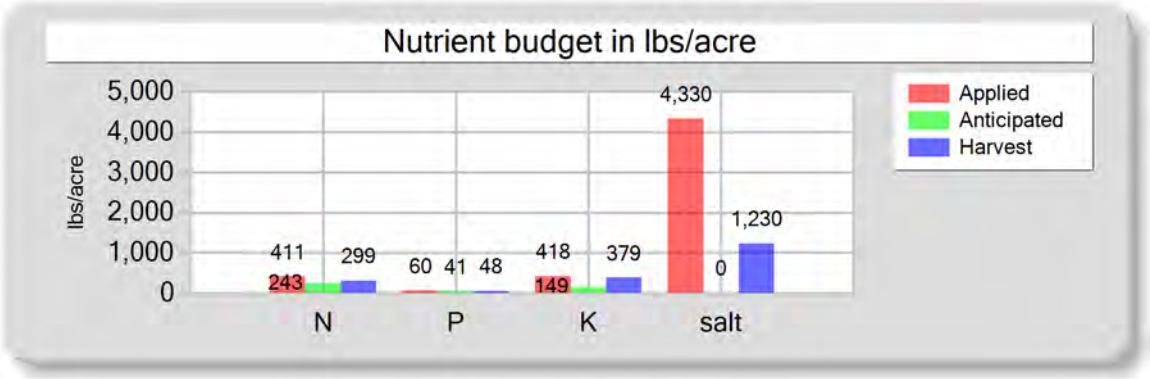
## Field 8 - 11/08/2022: Wheat, silage, soft dough

Field name: Field 8 Crop: Wheat, silage, soft dough Plant date: 11/08/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 333.44 | 59.75 | 417.81 | 2,274.76 |
| Fresh water | 70.11 | 0.00 | 0.00 | 2,055.32 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 410.54 | 59.75 | 417.81 | 4,330.08 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 299.37 | 48.17 | 378.51 | 1,230.17 |
| Nutrient balance | 111.17 | 11.58 | 39.30 | 3,099.92 |
| Applied to removed ratio | 1.37 | 1.24 | 1.10 | 3.52 |

| Fresh water applied | |
|---|---|
| 25,339,800.00 | *gallons* |
| 933.18 | *acre-inches* |
| 11.96 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,176,000.00 | *gallons* |
| 264.27 | *acre-inches* |
| 3.39 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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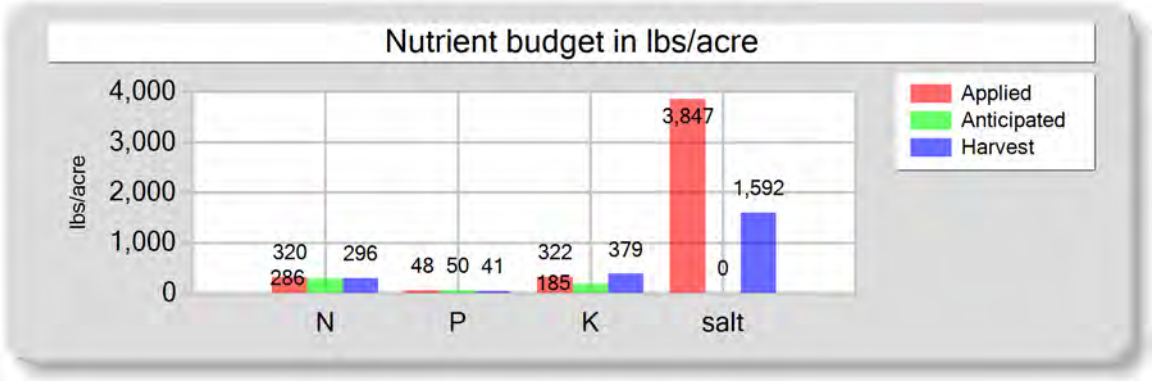
## Field 8 - 05/05/2023: Corn, silage

Field name: Field 8 Crop: Corn, silage Plant date: 05/05/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 290.42 | 48.06 | 322.43 | 1,761.71 |
| Fresh water | 22.54 | 0.00 | 0.00 | 2,085.46 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 319.95 | 48.06 | 322.43 | 3,847.17 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 295.90 | 41.43 | 378.75 | 1,591.69 |
| Nutrient balance | 24.05 | 6.64 | -56.32 | 2,255.48 |
| Applied to removed ratio | 1.08 | 1.16 | 0.85 | 2.42 |

| Fresh water applied | |
|---|---|
| 82,656,840.00 | *gallons* |
| 3,043.97 | *acre-inches* |
| 39.03 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,059,000.00 | *gallons* |
| 259.96 | *acre-inches* |
| 3.33 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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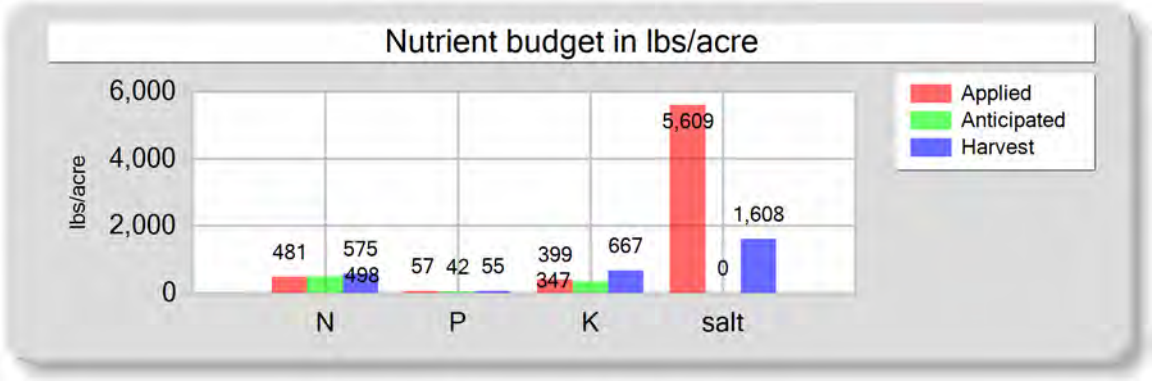
## Field 9 - 10/01/2020: Alfalfa, hay

Field name: Field 9 Crop: Alfalfa, hay Plant date: 10/01/2020




| | 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 | 366.33 | 56.80 | 398.66 | 2,281.11 |
| Fresh water | 100.87 | 0.00 | 0.00 | 3,327.76 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 481.20 | 56.80 | 398.66 | 5,608.87 |
| Anticipated crop nutrient removal | 497.60 | 41.60 | 347.20 | 0.00 |
| Actual crop nutrient removal | 574.52 | 55.44 | 666.91 | 1,608.22 |
| Nutrient balance | -93.31 | 1.37 | -268.25 | 4,000.65 |
| Applied to removed ratio | 0.84 | 1.02 | 0.60 | 3.49 |

| Fresh water applied | |
|---|---|
| 78,047,100.00 | *gallons* |
| 2,874.21 | *acre-inches* |
| 36.85 | *inches/acre* |

| Process wastewater applied | |
|---|---|
| 7,488,000.00 | *gallons* |
| 275.76 | *acre-inches* |
| 3.54 | *inches/acre* |

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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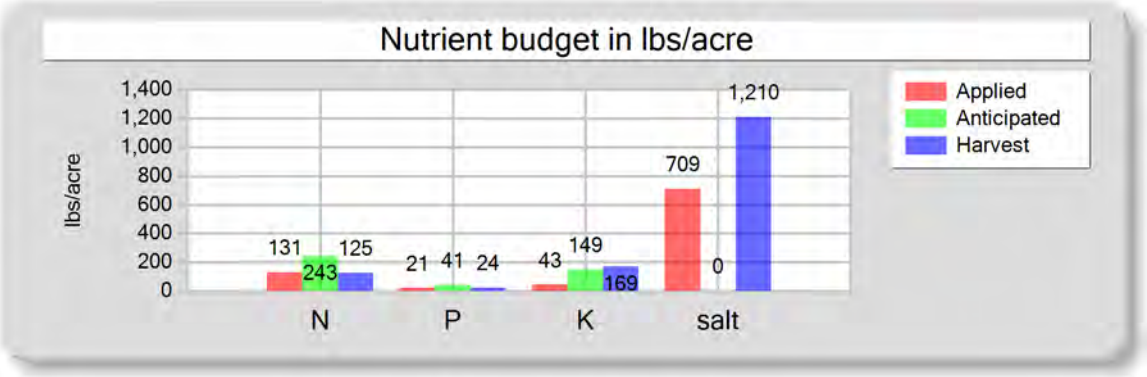
## Field CCF 1 - 10/29/2022: Wheat, silage, soft dough

Field name: Field CCF 1 Crop: Wheat, silage, soft dough Plant date: 10/29/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 120.00 | 20.66 | 43.31 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.94 | 0.00 | 0.00 | 708.56 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 130.94 | 20.66 | 43.31 | 708.56 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 124.73 | 23.60 | 168.55 | 1,210.14 |
| Nutrient balance | 6.21 | -2.94 | -125.24 | -501.58 |
| Applied to removed ratio | 1.05 | 0.88 | 0.26 | 0.59 |

| Fresh water applied | |
|---|---|
| 35,850,000.00 | *gallons* |
| 1,320.23 | *acre-inches* |
| 17.37 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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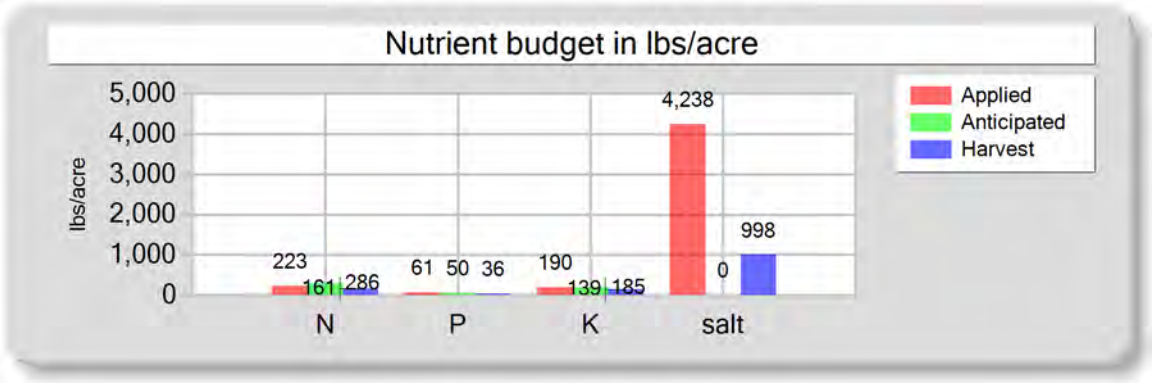
## Field CCF 1 - 05/30/2023: Corn, silage

Field name: Field CCF 1 Crop: Corn, silage Plant date: 05/30/2023




| | 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 | 57.44 | 15.78 | 0.00 | 0.00 |
| Dry manure | 130.69 | 44.77 | 189.98 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 28.30 | 0.00 | 0.00 | 4,237.71 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 223.42 | 60.55 | 189.98 | 4,237.71 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 161.43 | 35.87 | 139.01 | 998.19 |
| Nutrient balance | 61.99 | 24.68 | 50.97 | 3,239.53 |
| Applied to removed ratio | 1.38 | 1.69 | 1.37 | 4.25 |

| Fresh water applied | |
|---|---|
| 73,668,960.00 | *gallons* |
| 2,712.98 | *acre-inches* |
| 35.70 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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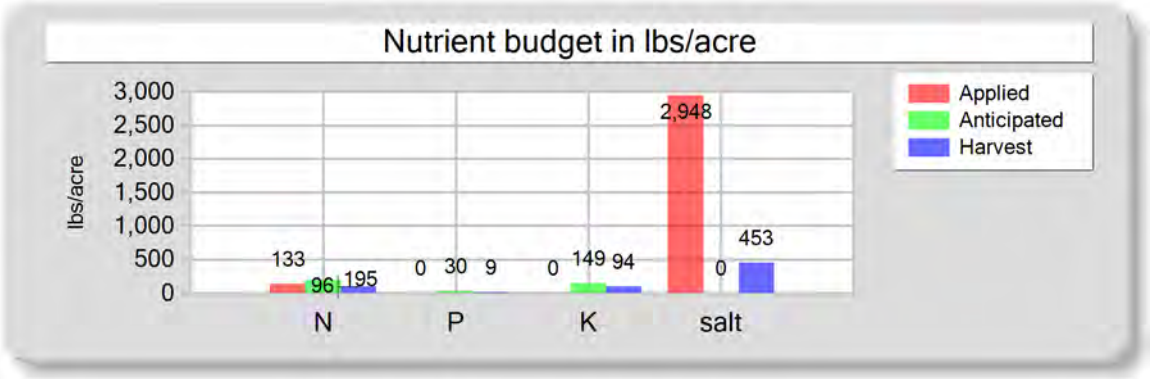
## Field CCF 10 - 12/01/2008: Almond, in shell

Field name: Field CCF 10 Crop: Almond, in shell Plant date: 12/01/2008




| | 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 | 100.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 18.65 | 0.00 | 0.00 | 2,948.36 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 132.65 | 0.00 | 0.00 | 2,948.36 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 95.64 | 9.14 | 94.24 | 452.87 |
| Nutrient balance | 37.01 | -9.14 | -94.24 | 2,495.48 |
| Applied to removed ratio | 1.39 | 0.00 | 0.00 | 6.51 |

| Fresh water applied | |
|---|---|
| 84,171,360.00 | *gallons* |
| 3,099.74 | *acre-inches* |
| 38.75 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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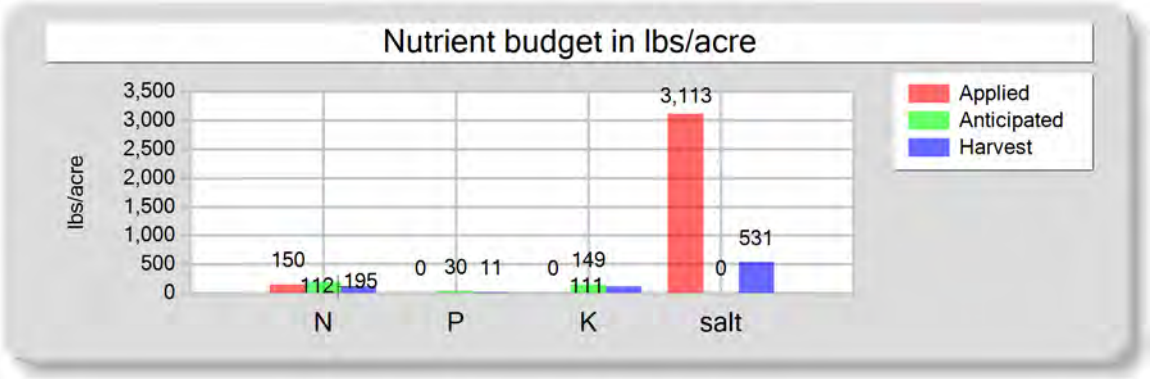
## Field CCF 11 - 12/01/2008: Almond, in shell

Field name: Field CCF 11 Crop: Almond, in shell Plant date: 12/01/2008




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 16.02 | 0.00 | 0.00 | 3,112.96 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 150.02 | 0.00 | 0.00 | 3,112.96 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 112.19 | 10.72 | 110.55 | 531.25 |
| Nutrient balance | 37.82 | -10.72 | -110.55 | 2,581.71 |
| Applied to removed ratio | 1.34 | 0.00 | 0.00 | 5.86 |

| Fresh water applied | |
|---|---|
| 57,562,620.00 | *gallons* |
| 2,119.84 | *acre-inches* |
| 39.26 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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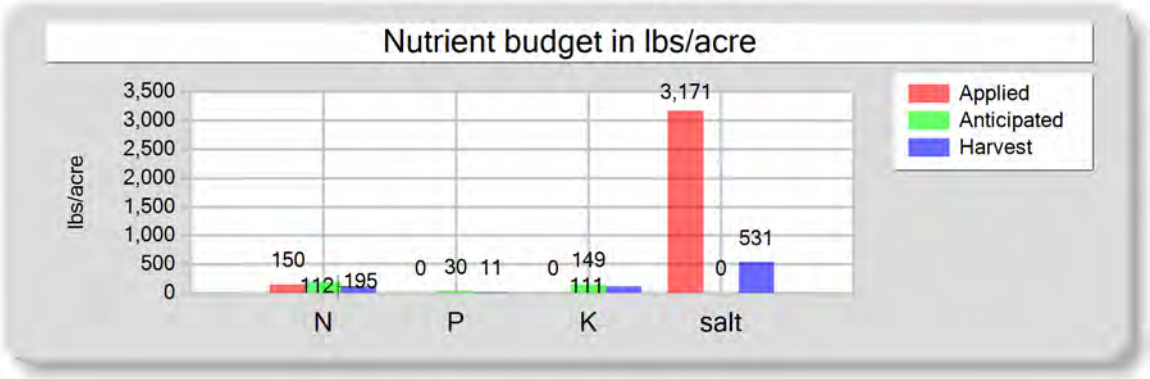
## Field CCF 12 - 12/01/2008: Almond, in shell

Field name: Field CCF 12 Crop: Almond, in shell Plant date: 12/01/2008




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 16.23 | 0.00 | 0.00 | 3,170.96 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 150.23 | 0.00 | 0.00 | 3,170.96 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 112.20 | 10.73 | 110.55 | 531.28 |
| Nutrient balance | 38.03 | -10.73 | -110.55 | 2,639.69 |
| Applied to removed ratio | 1.34 | 0.00 | 0.00 | 5.97 |

| Fresh water applied | |
|---|---|
| 32,663,040.00 | *gallons* |
| 1,202.87 | *acre-inches* |
| 37.59 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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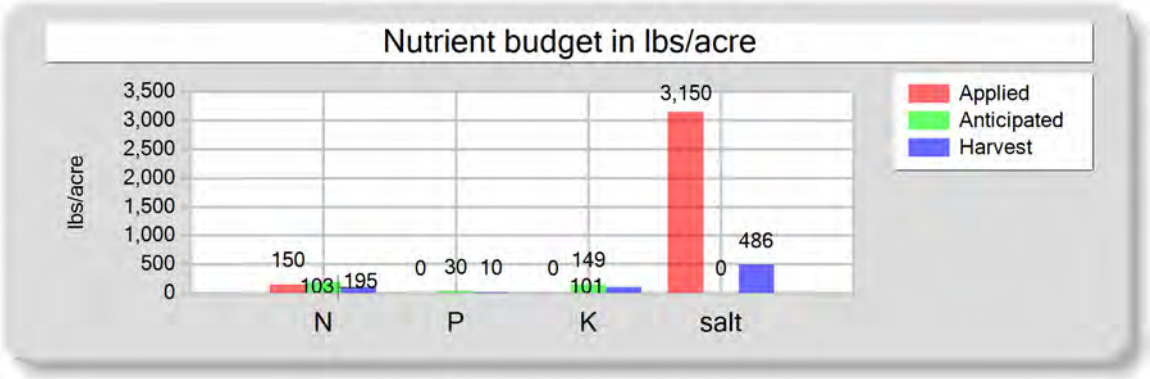
## Field CCF 13 - 12/01/2008: Almond, in shell

Field name: Field CCF 13 Crop: Almond, in shell Plant date: 12/01/2008




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 16.20 | 0.00 | 0.00 | 3,150.11 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 150.20 | 0.00 | 0.00 | 3,150.11 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 102.72 | 9.82 | 101.21 | 486.39 |
| Nutrient balance | 47.48 | -9.82 | -101.21 | 2,663.72 |
| Applied to removed ratio | 1.46 | 0.00 | 0.00 | 6.48 |

| Fresh water applied | |
|---|---|
| 18,206,520.00 | *gallons* |
| 670.48 | *acre-inches* |
| 39.44 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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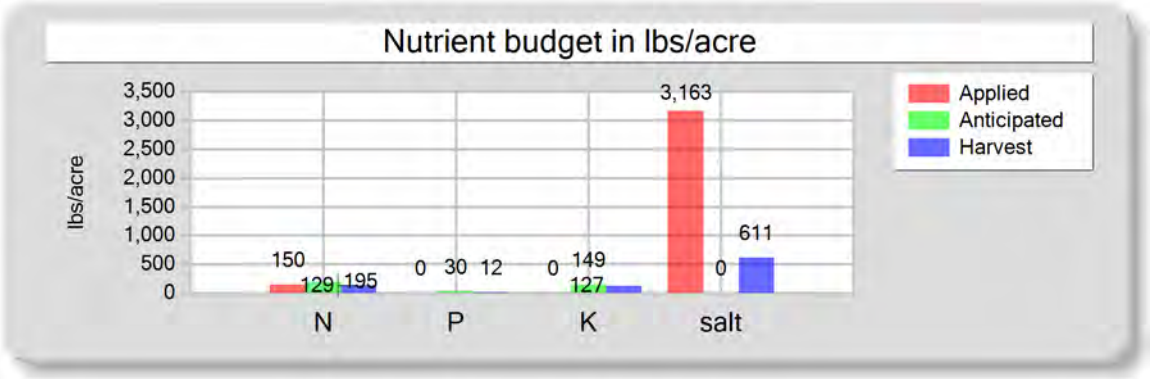
## Field CCF 14 - 12/01/2016: Almond, in shell

Field name: Field CCF 14 Crop: Almond, in shell Plant date: 12/01/2016




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 16.26 | 0.00 | 0.00 | 3,163.19 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 150.26 | 0.00 | 0.00 | 3,163.19 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 129.04 | 12.34 | 127.15 | 611.04 |
| Nutrient balance | 21.22 | -12.34 | -127.15 | 2,552.16 |
| Applied to removed ratio | 1.16 | 0.00 | 0.00 | 5.18 |

| Fresh water applied | |
|---|---|
| 114,618,300.00 | *gallons* |
| 4,221.00 | *acre-inches* |
| 39.45 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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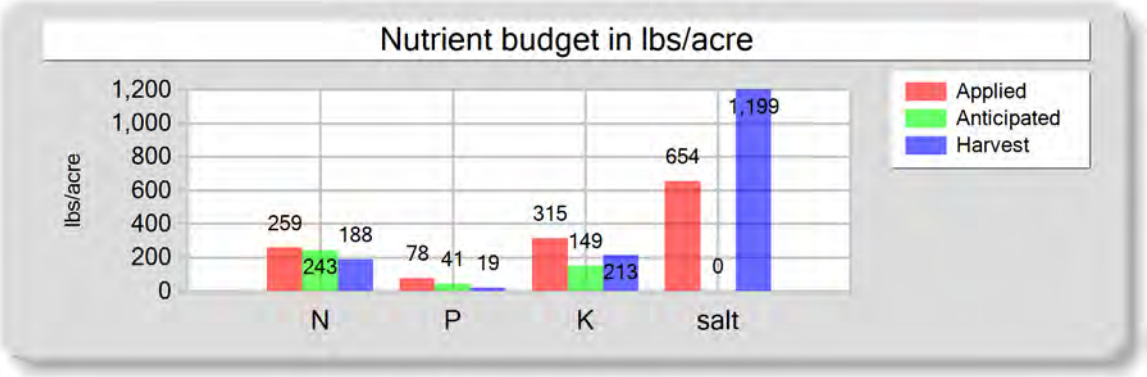
## Field CCF 1-B - 10/31/2022: Wheat, silage, soft dough

Field name: Field CCF 1-B  Crop: Wheat, silage, soft dough  Plant date: 10/31/2022




| | 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 | 247.90 | 78.23 | 315.11 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.64 | 0.00 | 0.00 | 654.34 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 258.54 | 78.23 | 315.11 | 654.34 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 187.89 | 18.79 | 212.94 | 1,199.21 |
| Nutrient balance | 70.65 | 59.44 | 102.17 | -544.87 |
| Applied to removed ratio | 1.38 | 4.16 | 1.48 | 0.55 |

| Fresh water applied | |
|---|---|
| 31,800,000.00 | *gallons* |
| 1,171.09 | *acre-inches* |
| 16.04 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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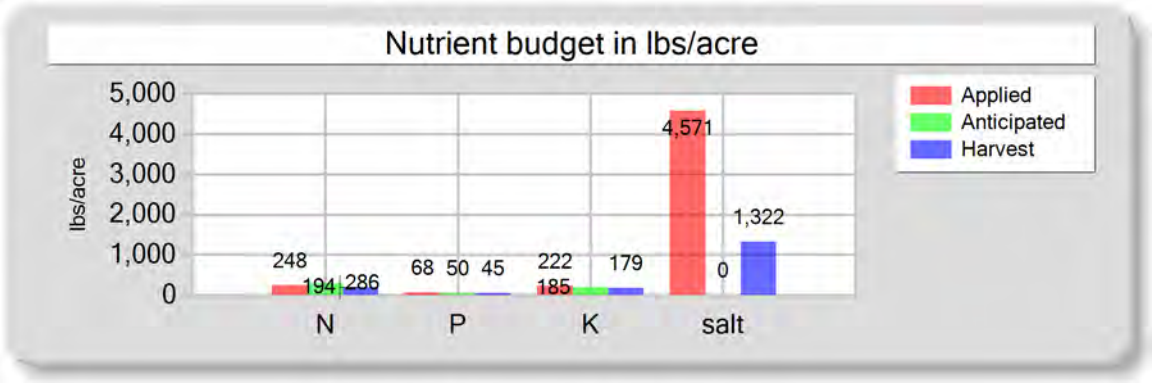
## Field CCF 1-B - 05/20/2023: Corn, silage

Field name: Field CCF 1-B  Crop: Corn, silage  Plant date: 05/20/2023




| | 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 | 57.44 | 15.78 | 0.00 | 0.00 |
| Dry manure | 152.75 | 52.33 | 222.05 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 30.48 | 0.00 | 0.00 | 4,570.78 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 247.67 | 68.11 | 222.05 | 4,570.78 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 193.50 | 44.65 | 178.62 | 1,321.88 |
| Nutrient balance | 54.16 | 23.45 | 43.43 | 3,248.90 |
| Applied to removed ratio | 1.28 | 1.53 | 1.24 | 3.46 |

| Fresh water applied | |
|---|---|
| 77,354,340.00 | *gallons* |
| 2,848.70 | *acre-inches* |
| 39.02 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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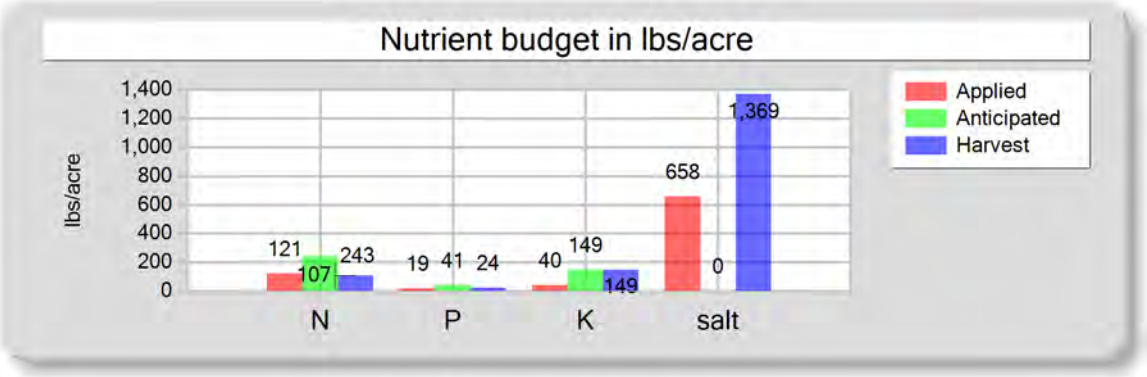
## Field CCF 2 - 10/27/2022: Wheat, silage, soft dough

Field name: Field CCF 2 Crop: Wheat, silage, soft dough Plant date: 10/27/2022




| | 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 | 110.49 | 19.02 | 39.88 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.66 | 0.00 | 0.00 | 658.16 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 121.14 | 19.02 | 39.88 | 658.16 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 107.44 | 24.26 | 149.03 | 1,368.64 |
| Nutrient balance | 13.70 | -5.24 | -109.15 | -710.48 |
| Applied to removed ratio | 1.13 | 0.78 | 0.27 | 0.48 |

| Fresh water applied | |
|---|---|
| 33,300,000.00 | *gallons* |
| 1,226.33 | *acre-inches* |
| 16.14 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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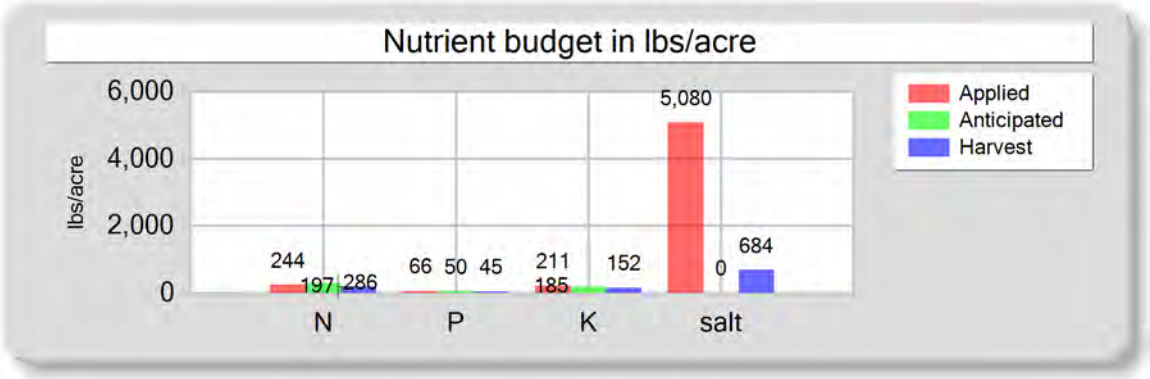
## Field CCF 2 - 06/10/2023: Corn, silage

Field name: Field CCF 2 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 | 57.44 | 15.78 | 0.00 | 0.00 |
| Dry manure | 145.48 | 49.84 | 211.49 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 34.11 | 0.00 | 0.00 | 5,080.21 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 244.03 | 65.62 | 211.49 | 5,080.21 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 196.73 | 44.71 | 152.02 | 683.53 |
| Nutrient balance | 47.30 | 20.91 | 59.47 | 4,396.67 |
| Applied to removed ratio | 1.24 | 1.47 | 1.39 | 7.43 |

| Fresh water applied | |
|---|---|
| 82,840,680.00 | *gallons* |
| 3,050.74 | *acre-inches* |
| 40.14 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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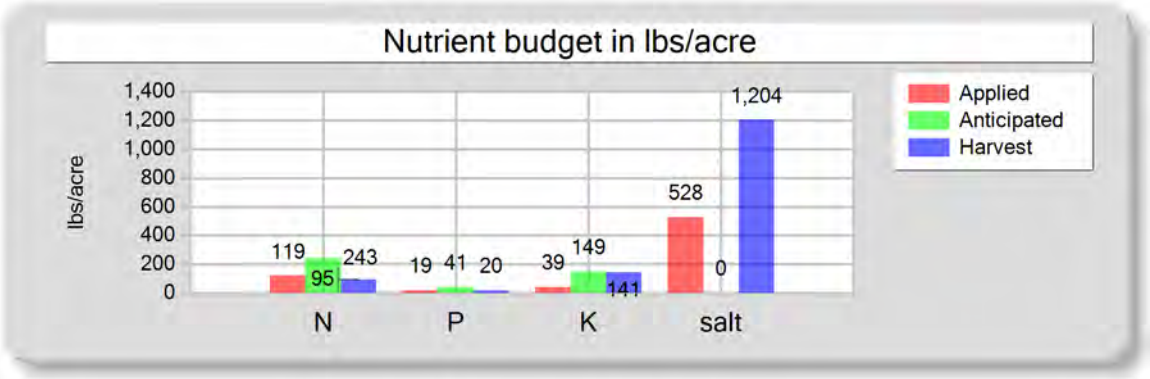
## Field CCF 3 - 10/27/2022: Wheat, silage, soft dough

Field name: Field CCF 3 Crop: Wheat, silage, soft dough Plant date: 10/27/2022




| | 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 | 108.58 | 18.70 | 39.19 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 2.93 | 0.00 | 0.00 | 527.71 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 118.52 | 18.70 | 39.19 | 527.71 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 95.17 | 19.69 | 141.11 | 1,203.55 |
| Nutrient balance | 23.35 | -0.99 | -101.92 | -675.84 |
| Applied to removed ratio | 1.25 | 0.95 | 0.28 | 0.44 |

| Fresh water applied | |
|---|---|
| 26,700,000.00 | *gallons* |
| 983.27 | *acre-inches* |
| 12.94 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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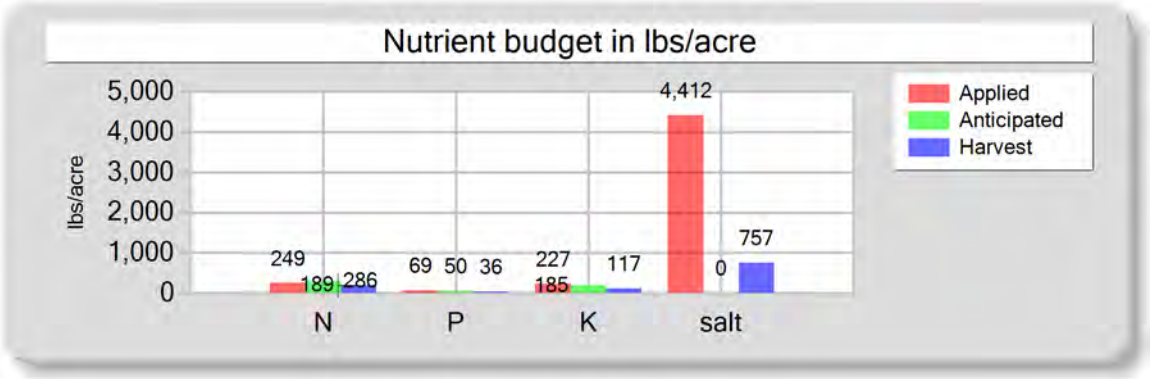
## Field CCF 3 - 06/10/2023: Corn, silage

Field name: Field CCF 3 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 | 57.44 | 15.78 | 0.00 | 0.00 |
| Dry manure | 155.96 | 53.43 | 226.72 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 28.98 | 0.00 | 0.00 | 4,411.63 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 249.39 | 69.21 | 226.72 | 4,411.63 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 189.22 | 36.04 | 117.14 | 756.88 |
| Nutrient balance | 60.16 | 33.17 | 109.59 | 3,654.74 |
| Applied to removed ratio | 1.32 | 1.92 | 1.94 | 5.83 |

| Fresh water applied | |
|---|---|
| 79,734,180.00 | *gallons* |
| 2,936.34 | *acre-inches* |
| 38.64 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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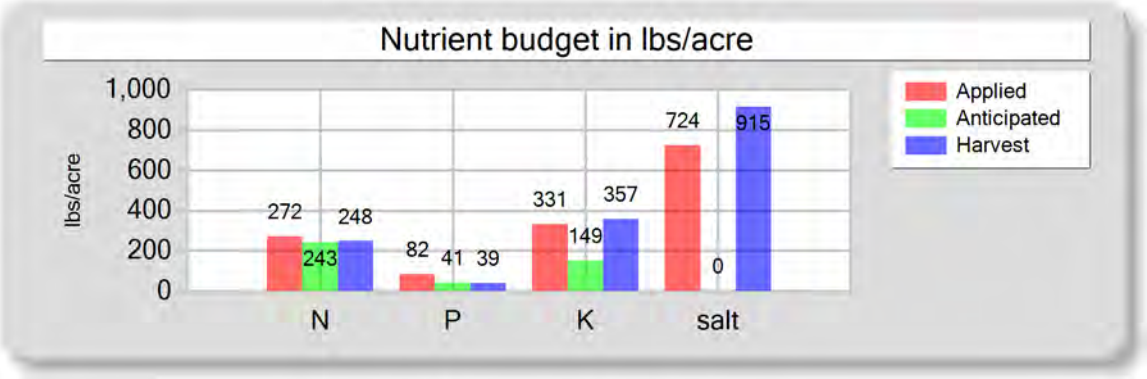
## Field CCF 4 - 10/25/2022: Wheat, silage, soft dough

Field name: Field CCF 4 Crop: Wheat, silage, soft dough Plant date: 10/25/2022




| | 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 | 260.59 | 82.23 | 331.24 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 4.02 | 0.00 | 0.00 | 724.01 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 271.62 | 82.23 | 331.24 | 724.01 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 247.75 | 39.28 | 356.52 | 914.98 |
| Nutrient balance | 23.87 | 42.95 | -25.27 | -190.97 |
| Applied to removed ratio | 1.10 | 2.09 | 0.93 | 0.79 |

| Fresh water applied | |
|---|---|
| 36,150,000.00 | *gallons* |
| 1,331.28 | *acre-inches* |
| 17.75 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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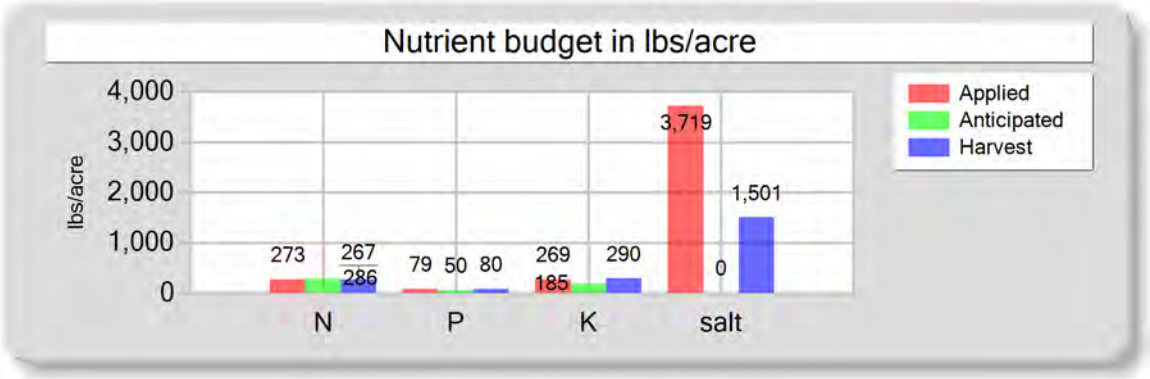
## Field CCF 4 - 05/18/2023: Corn, silage

Field name: Field CCF 4 Crop: Corn, silage Plant date: 05/18/2023




| | 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 | 57.44 | 15.78 | 0.00 | 0.00 |
| Dry manure | 184.90 | 63.35 | 268.79 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 24.00 | 0.00 | 0.00 | 3,719.28 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 273.34 | 79.13 | 268.79 | 3,719.28 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 267.09 | 79.56 | 289.82 | 1,500.91 |
| Nutrient balance | 6.26 | -0.43 | -21.02 | 2,218.38 |
| Applied to removed ratio | 1.02 | 0.99 | 0.93 | 2.48 |

| Fresh water applied | |
|---|---|
| 80,095,980.00 | *gallons* |
| 2,949.66 | *acre-inches* |
| 39.33 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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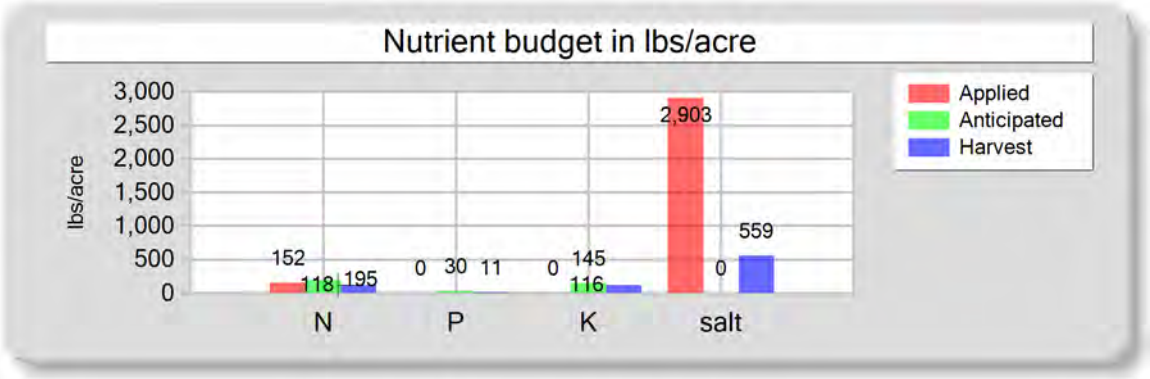
## Field CCF 5 - 12/01/2020: Almond, in shell

Field name: Field CCF 5 Crop: Almond, in shell Plant date: 12/01/2020




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 18.22 | 0.00 | 0.00 | 2,902.68 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 152.22 | 0.00 | 0.00 | 2,902.68 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 145.00 | 0.00 |
| Actual crop nutrient removal | 118.04 | 11.28 | 116.31 | 558.94 |
| Nutrient balance | 34.18 | -11.28 | -116.31 | 2,343.74 |
| Applied to removed ratio | 1.29 | 0.00 | 0.00 | 5.19 |

| Fresh water applied | |
|---|---|
| 51,350,940.00 | *gallons* |
| 1,891.08 | *acre-inches* |
| 38.59 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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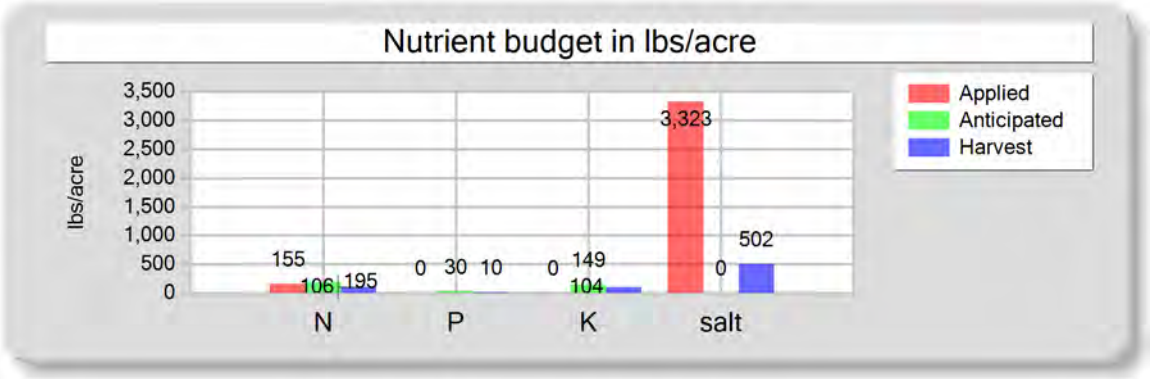
## Field CCF 6 - 12/01/2020: Almond, in shell

Field name: Field CCF 6 Crop: Almond, in shell Plant date: 12/01/2020




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 21.10 | 0.00 | 0.00 | 3,322.61 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 155.10 | 0.00 | 0.00 | 3,322.61 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 105.97 | 10.13 | 104.42 | 501.79 |
| Nutrient balance | 49.13 | -10.13 | -104.42 | 2,820.82 |
| Applied to removed ratio | 1.46 | 0.00 | 0.00 | 6.62 |

| Fresh water applied | |
|---|---|
| 25,209,780.00 | *gallons* |
| 928.39 | *acre-inches* |
| 40.36 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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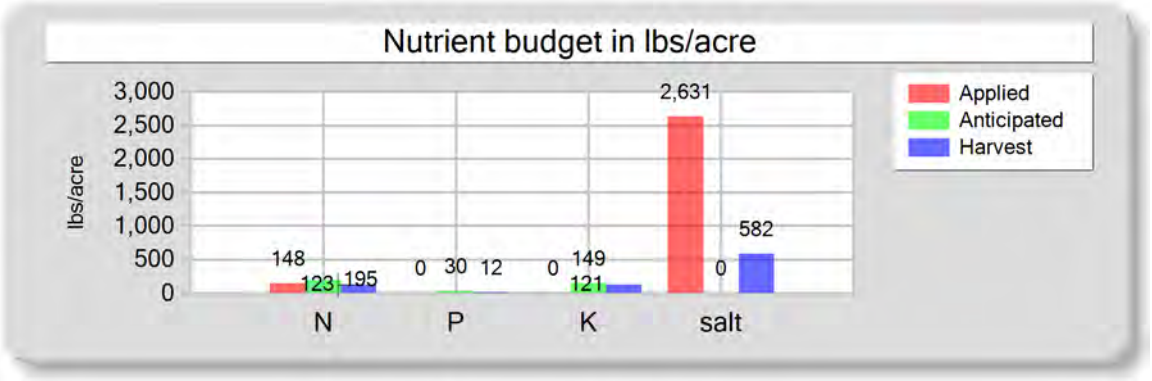
## Field CCF 7 - 12/01/2014: Almond, in shell

Field name: Field CCF 7 Crop: Almond, in shell Plant date: 12/01/2014




| | 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 | 120.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 14.21 | 0.00 | 0.00 | 2,631.10 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 148.21 | 0.00 | 0.00 | 2,631.10 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 123.01 | 11.76 | 121.20 | 582.46 |
| Nutrient balance | 25.20 | -11.76 | -121.20 | 2,048.64 |
| Applied to removed ratio | 1.20 | 0.00 | 0.00 | 4.52 |

| Fresh water applied | |
|---|---|
| 74,350,080.00 | *gallons* |
| 2,738.06 | *acre-inches* |
| 39.12 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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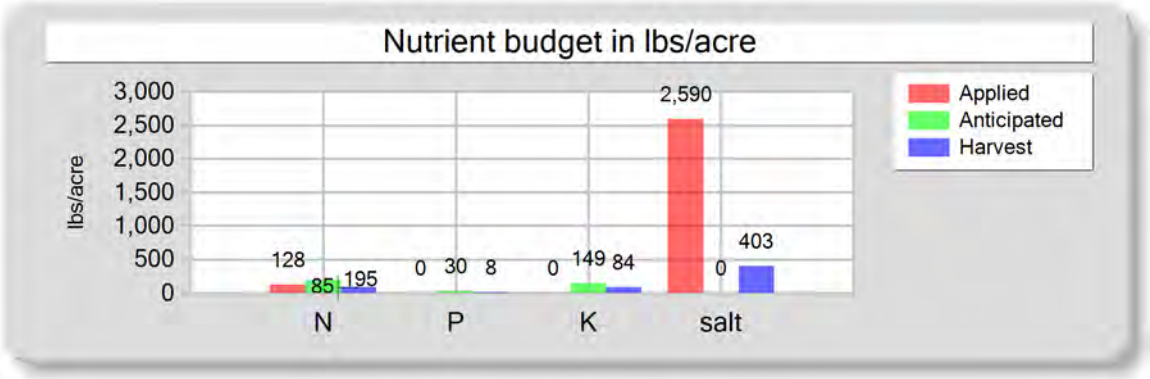
## Field CCF 8 - 12/01/2007: Almond, in shell

Field name: Field CCF 8 Crop: Almond, in shell Plant date: 12/01/2007




| | 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 | 100.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 14.01 | 0.00 | 0.00 | 2,590.21 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 128.01 | 0.00 | 0.00 | 2,590.21 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 85.13 | 8.14 | 83.87 | 403.08 |
| Nutrient balance | 42.89 | -8.14 | -83.87 | 2,187.13 |
| Applied to removed ratio | 1.50 | 0.00 | 0.00 | 6.43 |

| Fresh water applied | |
|---|---|
| 59,772,720.00 | *gallons* |
| 2,201.23 | *acre-inches* |
| 40.02 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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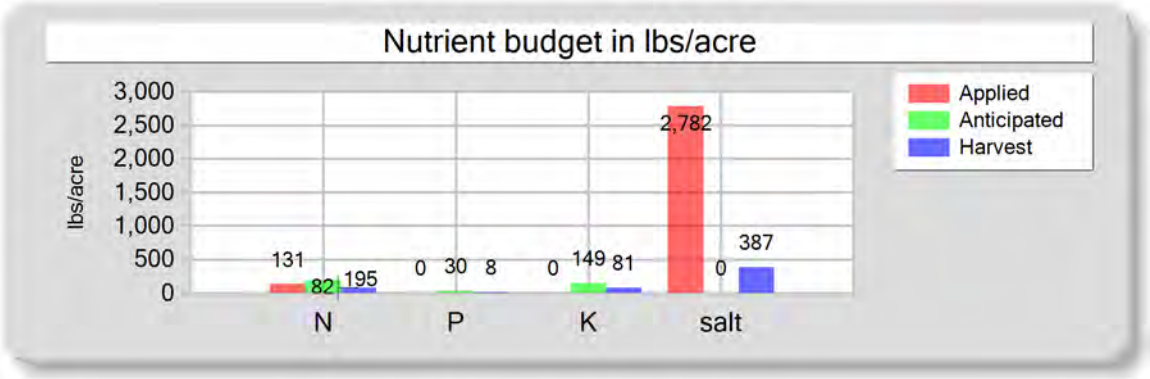
## Field CCF 9 - 12/01/2007: Almond, in shell

Field name: Field CCF 9 Crop: Almond, in shell Plant date: 12/01/2007




| | 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 | 100.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 0.00 | 0.00 | 0.00 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 17.39 | 0.00 | 0.00 | 2,782.08 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 131.39 | 0.00 | 0.00 | 2,782.08 |
| Anticipated crop nutrient removal | 195.00 | 30.00 | 148.50 | 0.00 |
| Actual crop nutrient removal | 81.74 | 7.81 | 80.54 | 387.06 |
| Nutrient balance | 49.64 | -7.81 | -80.54 | 2,395.02 |
| Applied to removed ratio | 1.61 | 0.00 | 0.00 | 7.19 |

| Fresh water applied | |
|---|---|
| 67,953,360.00 | *gallons* |
| 2,502.49 | *acre-inches* |
| 39.72 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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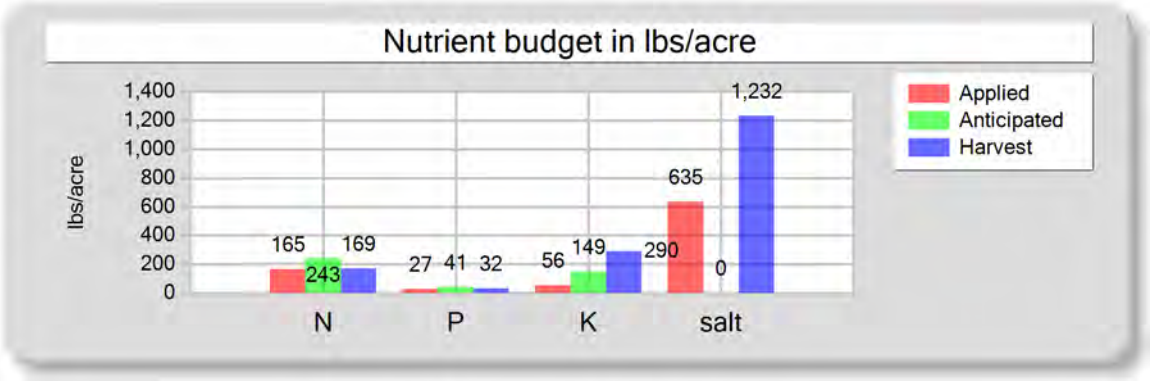
## Field CCF Home 1 - 11/11/2022: Wheat, silage, soft dough

Field name: Field CCF Home 1 Crop: Wheat, silage, soft dough Plant date: 11/11/2022




| | 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 | 154.51 | 26.60 | 55.77 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.53 | 0.00 | 0.00 | 635.39 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 165.04 | 26.60 | 55.77 | 635.39 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 169.18 | 31.92 | 290.47 | 1,232.37 |
| Nutrient balance | -4.13 | -5.32 | -234.70 | -596.98 |
| Applied to removed ratio | 0.98 | 0.83 | 0.19 | 0.52 |

| Fresh water applied | |
|---|---|
| 21,150,000.00 | *gallons* |
| 778.88 | *acre-inches* |
| 15.58 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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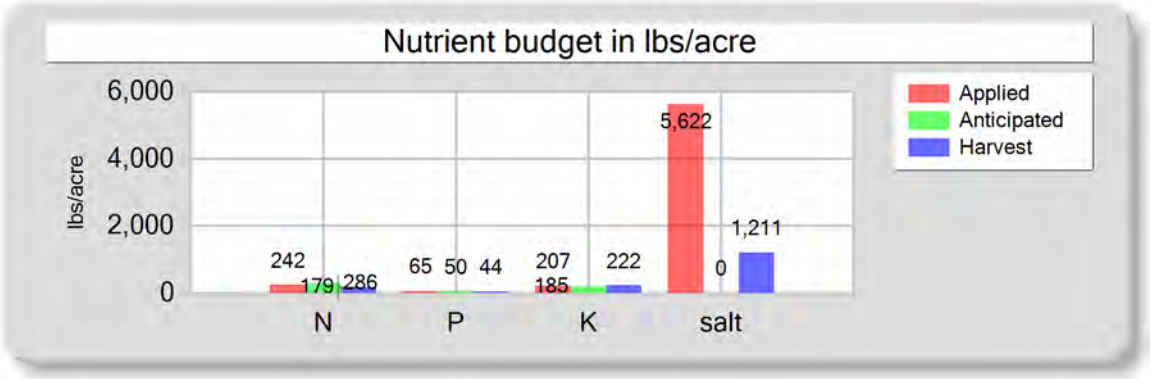
## Field CCF Home 1 - 05/13/2023: Corn, silage

Field name: Field CCF Home 1 Crop: Corn, silage Plant date: 05/13/2023




| | 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 | 75.04 | 15.78 | 0.00 | 0.00 |
| Dry manure | 142.74 | 48.90 | 207.50 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 17.30 | 0.00 | 0.00 | 5,621.69 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 242.07 | 64.68 | 207.50 | 5,621.69 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 178.60 | 43.56 | 222.16 | 1,211.32 |
| Nutrient balance | 63.48 | 21.12 | -14.66 | 4,410.37 |
| Applied to removed ratio | 1.36 | 1.48 | 0.93 | 4.64 |

| Fresh water applied | |
|---|---|
| 53,856,140.00 | *gallons* |
| 1,983.34 | *acre-inches* |
| 39.67 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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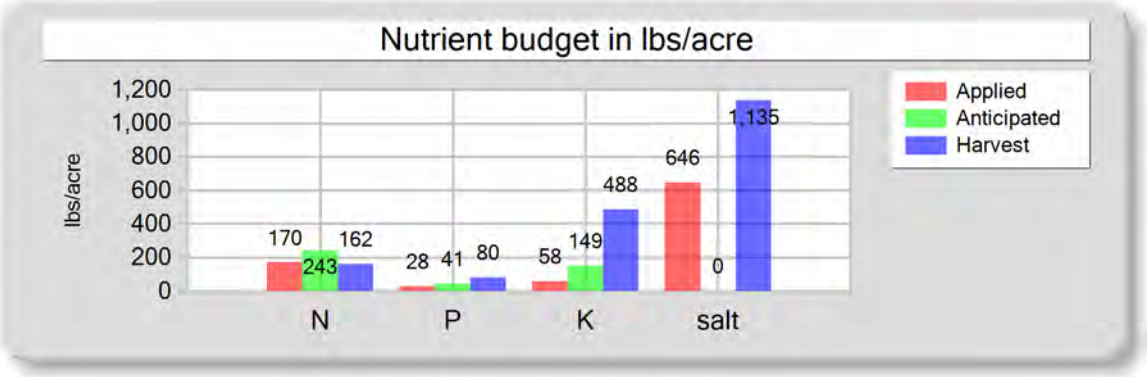
## Field CCF Home 2 - 11/08/2022: Wheat, silage, soft dough

Field name: Field CCF Home 2 Crop: Wheat, silage, soft dough Plant date: 11/08/2022




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 0.00 | 0.00 | 0.00 | 0.00 |
| Dry manure | 159.89 | 27.53 | 57.71 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.59 | 0.00 | 0.00 | 645.61 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 170.48 | 27.53 | 57.71 | 645.61 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 161.65 | 79.50 | 487.60 | 1,134.78 |
| Nutrient balance | 8.83 | -51.97 | -429.89 | -489.17 |
| Applied to removed ratio | 1.05 | 0.35 | 0.12 | 0.57 |

| Fresh water applied | |
|---|---|
| 22,350,000.00 | *gallons* |
| 823.07 | *acre-inches* |
| 15.83 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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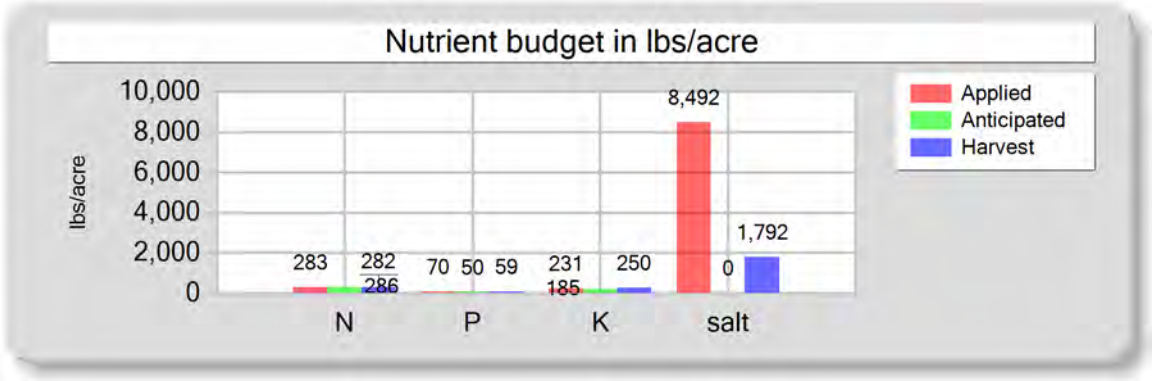
## Field CCF Home 2 - 05/22/2023: Corn, silage

Field name: Field CCF Home 2 Crop: Corn, silage Plant date: 05/22/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 92.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 158.87 | 54.43 | 230.95 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 24.91 | 0.00 | 0.00 | 8,491.89 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 283.42 | 70.21 | 230.95 | 8,491.89 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 282.12 | 58.55 | 250.18 | 1,791.75 |
| Nutrient balance | 1.30 | 11.65 | -19.23 | 6,700.14 |
| Applied to removed ratio | 1.00 | 1.20 | 0.92 | 4.74 |

| Fresh water applied | |
|---|---|
| 54,466,380.00 | *gallons* |
| 2,005.81 | *acre-inches* |
| 38.57 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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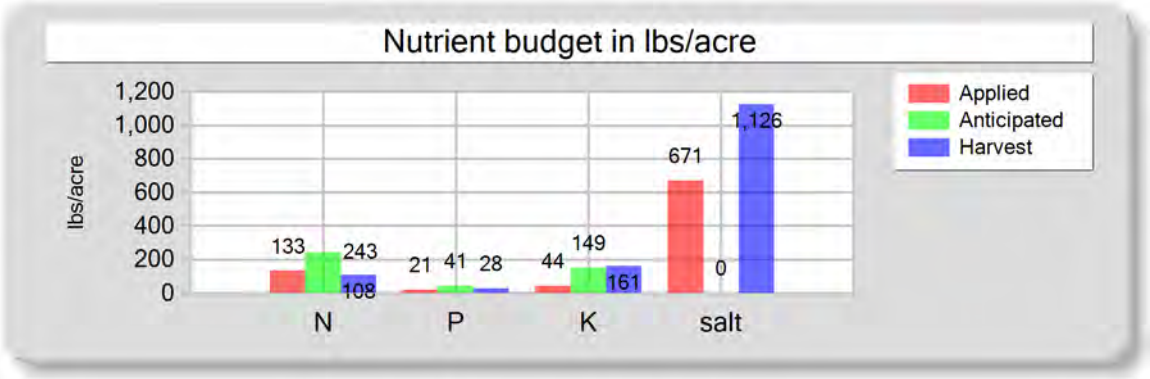
## Field CCF Home 3 - 11/02/2022: Wheat, silage, soft dough

Field name: Field CCF Home 3 Crop: Wheat, silage, soft dough Plant date: 11/02/2022




| | 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 | 122.14 | 21.03 | 44.09 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.73 | 0.00 | 0.00 | 671.05 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 132.87 | 21.03 | 44.09 | 671.05 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 108.35 | 27.86 | 160.97 | 1,125.58 |
| Nutrient balance | 24.52 | -6.83 | -116.89 | -454.53 |
| Applied to removed ratio | 1.23 | 0.75 | 0.27 | 0.60 |

| Fresh water applied | |
|---|---|
| 20,550,000.00 | *gallons* |
| 756.79 | *acre-inches* |
| 16.45 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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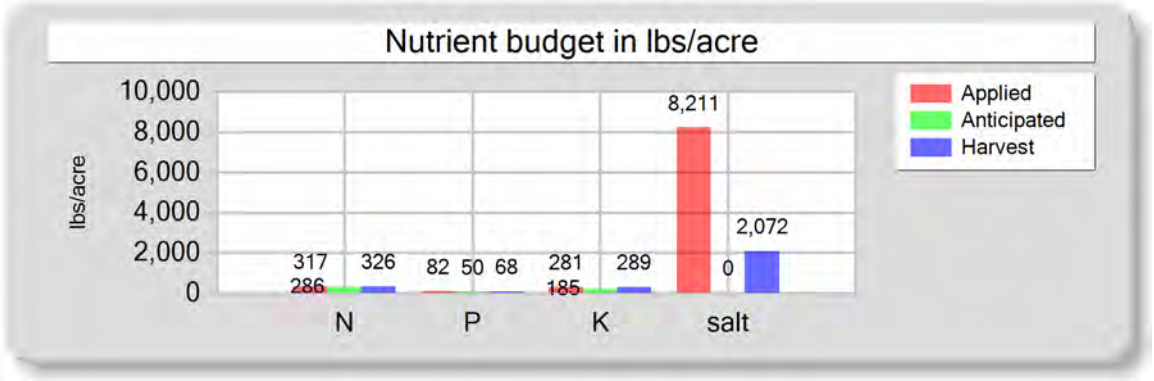
## Field CCF Home 3 - 05/29/2023: Corn, silage

Field name: Field CCF Home 3 Crop: Corn, silage Plant date: 05/29/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 92.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 193.17 | 66.18 | 280.82 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 24.26 | 0.00 | 0.00 | 8,211.11 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 317.07 | 81.96 | 280.82 | 8,211.11 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 326.30 | 67.72 | 289.36 | 2,072.29 |
| Nutrient balance | -9.22 | 14.24 | -8.54 | 6,138.83 |
| Applied to removed ratio | 0.97 | 1.21 | 0.97 | 3.96 |

| Fresh water applied | |
|---|---|
| 48,754,920.00 | *gallons* |
| 1,795.48 | *acre-inches* |
| 39.03 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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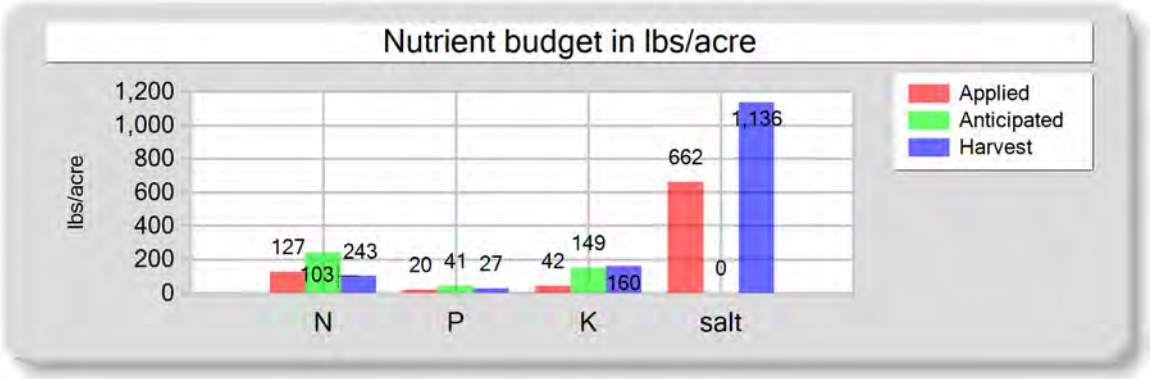
## Field CCF Home 4 - 11/01/2022: Wheat, silage, soft dough

Field name: Field CCF Home 4 Crop: Wheat, silage, soft dough Plant date: 11/01/2022




| | 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 | 116.09 | 19.99 | 41.90 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 3.68 | 0.00 | 0.00 | 662.43 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 126.77 | 19.99 | 41.90 | 662.43 |
| Anticipated crop nutrient removal | 243.00 | 41.40 | 149.40 | 0.00 |
| Actual crop nutrient removal | 103.36 | 27.20 | 160.48 | 1,136.36 |
| Nutrient balance | 23.41 | -7.21 | -118.58 | -473.94 |
| Applied to removed ratio | 1.23 | 0.73 | 0.26 | 0.58 |

| Fresh water applied | |
|---|---|
| 22,050,000.00 | *gallons* |
| 812.03 | *acre-inches* |
| 16.24 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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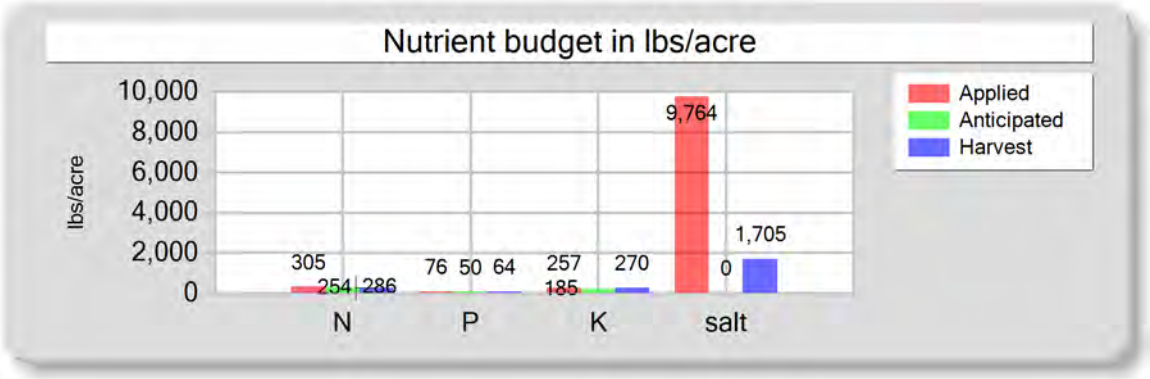
## Field CCF Home 4 - 06/05/2023: Corn, silage

Field name: Field CCF Home 4 Crop: Corn, silage Plant date: 06/05/2023




| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 92.64 | 15.78 | 0.00 | 0.00 |
| Dry manure | 177.09 | 60.67 | 257.44 | 0.00 |
| Process wastewater | 0.00 | 0.00 | 0.00 | 0.00 |
| Fresh water | 28.23 | 0.00 | 0.00 | 9,763.63 |
| Atmospheric deposition | 7.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 304.96 | 76.45 | 257.44 | 9,763.63 |
| Anticipated crop nutrient removal | 285.60 | 50.40 | 184.80 | 0.00 |
| Actual crop nutrient removal | 254.02 | 63.50 | 269.89 | 1,705.29 |
| Nutrient balance | 50.94 | 12.95 | -12.45 | 8,058.33 |
| Applied to removed ratio | 1.20 | 1.20 | 0.95 | 5.73 |

| Fresh water applied | |
|---|---|
| 53,801,580.00 | *gallons* |
| 1,981.33 | *acre-inches* |
| 39.63 | *inches/acre* |

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

| Total harvests for the crop | |
|---|---|
| 1 | *harvests* |

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NUTRIENT ANALYSES

## A. MANURE ANALYSES

### Corral Solids (Fall 2022)

Sample and source description: Corral Solids (Fall 2022)
Sample date: 10/12/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 23.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Calcium (mg/kg) | Magnesium (mg/kg) | Sodium (mg/kg) | Sulfur (mg/kg) | Chloride (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 22,500.00 | 7,100.00 | 28,600.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

### Separator Solids (Fall 2022)

Sample and source description: Separator Solids (Fall 2022)
Sample date: 10/12/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 82.9 %

| | 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** | 30,200.00 | 5,200.00 | 10,900.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

### Corral Solids DM1

Sample and source description: Corral Solids DM1
Sample date: 04/17/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 27.7 %

| | 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** | 10,800.00 | 3,700.00 | 15,700.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

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## Drying Solids

Sample and source description: Drying Solids

Sample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 19.7 %

| | 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** | 16,700.00 | 5,200.00 | 28,800.00 | 21,000.00 | 7,300.00 | 3,100.00 | 5,300.00 | 8,000.00 | | 61.80 |
| **DL** | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 1,000.00 | | 0.01 |

## Separated Solids

Sample and source description: Separated Solids

Sample date: 04/17/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.2 %

| | 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** | 21,300.00 | 4,000.00 | 5,600.00 | 17,200.00 | 5,500.00 | 1,500.00 | 4,800.00 | 1,000.00 | | 49.40 |
| **DL** | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 1,000.00 | | 0.01 |

## Corral Solids

Sample and source description: Corral Solids

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

Moisture: 16.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Calcium (mg/kg) | Magnesium (mg/kg) | Sodium (mg/kg) | Sulfur (mg/kg) | Chloride (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 15,000.00 | 5,800.00 | 22,300.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

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Drying Solids

Sample and source description: Drying Solids
Sample date: 10/10/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 9.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Calcium (mg/kg) | Magnesium (mg/kg) | Sodium (mg/kg) | Sulfur (mg/kg) | Chloride (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 13,400.00 | 4,700.00 | 17,300.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

Separated Solids

Sample and source description: Separated Solids
Sample date: 10/10/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 77.2 %

| | 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** | 25,600.00 | 5,700.00 | 9,600.00 | | | | | | | |
| **DL** | 100.00 | 100.00 | 100.00 | | | | | | | |

## B. PROCESS WASTEWATER ANALYSES

3rdQWW

Sample and source description: 3rdQWW
Sample date: 08/01/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.60

| | 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** | 612.00 | 383.00 | 0.00 | 1.00 | 61.90 | 669.00 | | | | | | | | 7,450.00 | 3,370 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | | | | | | | | 10.00 | 10 |

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## 4thQWW 2022

Sample and source description: 4thQWW 2022

Sample date: 10/17/2022 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** | 402.00 | 349.00 | 0.00 | 2.30 | 79.90 | 605.00 | | | | | | | | 6,990.00 | 2,950 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | | | | | | | | 10.00 | 10 |

## WW 1st Q NW Corner WWS #1

Sample and source description: WW 1st Q NW Corner WWS #1

Sample date: 02/13/2023 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** | 450.00 | 219.00 | 0.00 | 0.70 | 76.70 | 511.00 | | | | | | | | 6,250.00 | 2,970 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | | | | | | | | 10.00 | 10 |

## WW 2nd Q NW Corner WWS #1

Sample and source description: WW 2nd Q NW Corner WWS #1

Sample date: 06/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

| | 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** | 292.00 | 262.00 | 0.00 | 0.50 | 60.50 | 356.00 | | | | | | | | 4,870.00 | 1,840 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | | | | | | | | 10.00 | 10 |

## WW 3rd @ NW Corner WWS #1

Sample and source description: WW 3rd @ NW Corner WWS #1

Sample date: 09/05/2023 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** | 462.00 | 341.00 | 0.00 | 0.50 | 66.30 | 487.00 | 106.00 | 97.90 | 174.00 | 2,450.00 | 0.00 | 10.80 | 208.00 | 5,850.00 | 2,750 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

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Q4 WWS (NW Corner WWS #1)

Sample and source description: Q4 WWS (NW Corner WWS #1)

Sample date: 10/13/2023 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** | 397.00 | 324.00 | 0.00 | 0.70 | 65.70 | 452.00 | | | | | | | | 5,660.00 | 2,880 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | | | | | | | | 10.00 | 10 |

Slurry

Sample and source description: Slurry

Sample date: 10/13/2023 Material type: Process wastewater sludge Source of analysis: Lab analysis pH: 7.10

| | 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** | 3,070.00 | 418.00 | 0.00 | 0.60 | 700.00 | 729.00 | | | | | | | | 5,900.00 | 2,650 |
| **DL** | 1.00 | 0.50 | 0.50 | 0.10 | 0.10 | 0.50 | | | | | | | | 10.00 | 10 |

## C. FRESH WATER ANALYSES

Bypass/Canal

Surface Water

Sample description: Surface Water

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 1.00 | | 0.30 | | | | | | | | 296.00 | 180 |
| **DL** | 1.00 | | 0.10 | | | | | | | | 10.00 | 10 |

CCF 11

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## CCF 11

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 6.34 | | 6.30 | 98.70 | 26.00 | 126.00 | 164.00 | 0.00 | 56.40 | 277.00 | 1,430.00 | 920 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 16

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 4.88 | | 4.70 | 106.00 | 25.80 | 97.00 | 182.00 | 0.00 | 66.10 | 226.00 | 1,280.00 | 830 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 18

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 6.35 | | 6.30 | 112.00 | 24.80 | 138.00 | 232.00 | 0.00 | 73.20 | 268.00 | 1,520.00 | 930 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 19

**Annual Report - General Order No. R5-2007-0035**
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## CCF 19

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 3.86 | | 3.60 | 67.60 | 16.40 | 90.00 | 159.00 | 0.00 | 66.60 | 147.00 | 974.00 | 600 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 2

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 1.00 | | 0.80 | 46.10 | 6.80 | 65.00 | 96.00 | 0.00 | 9.80 | 127.00 | 657.00 | 425 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 20

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 7.32 | | 7.30 | 112.00 | 25.50 | 188.00 | 251.00 | 0.00 | 84.40 | 335.00 | 1,790.00 | 1,050 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 21

**Annual Report - General Order No. R5-2007-0035**
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## CCF 21

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 1.00 | | 0.70 | 25.50 | 3.70 | 59.00 | 98.70 | 0.00 | 18.00 | 64.80 | 470.00 | 305 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 3

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 15.80 | | 15.80 | 664.00 | 120.00 | 482.00 | 216.00 | 0.00 | 33.10 | 2,170.00 | 7,640.00 | 6,050 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 8

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 3.02 | | 2.90 | 86.00 | 21.40 | 73.00 | 172.00 | 0.00 | 58.40 | 149.00 | 993.00 | 640 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## CCF 9

**Annual Report - General Order No. R5-2007-0035**
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## CCF 9

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 10/02/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 5.84 | | 5.40 | 139.00 | 36.90 | 107.00 | 212.00 | 0.00 | 51.50 | 318.00 | 1,610.00 | 1,160 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 1

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 27.30 | | 27.30 | 100.00 | 14.90 | 86.00 | 239.00 | 0.00 | 16.30 | 88.20 | 960.00 | 660 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 10

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 7.43 | | 7.10 | 61.20 | 9.00 | 50.00 | 187.00 | 0.00 | 13.50 | 43.30 | 575.00 | 400 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 11

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## VCR 11

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 48.10 | | 48.10 | 159.00 | 25.30 | 98.00 | 383.00 | 0.00 | 25.00 | 104.00 | 1,400.00 | 980 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 18

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 1.00 | | 0.50 | 14.00 | 1.80 | 71.00 | 93.20 | 0.00 | 4.30 | 61.90 | 386.00 | 260 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 2

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 36.00 | | 36.00 | 174.00 | 26.60 | 72.00 | 306.00 | 0.00 | 26.60 | 201.00 | 1,470.00 | 1,130 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 21

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

## VCR 21

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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 | | 13.40 | 100.00 | 15.20 | 50.00 | 253.00 | 0.00 | 19.30 | 57.40 | 779.00 | 560 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 22

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 17.70 | | 17.70 | 136.00 | 21.60 | 58.00 | 309.00 | 0.00 | 28.80 | 100.00 | 1,060.00 | 690 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 24

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 4.58 | | 4.40 | 51.70 | 6.70 | 43.00 | 138.00 | 0.00 | 11.30 | 55.60 | 496.00 | 390 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 26

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

## VCR 26

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 15.40 | | 15.40 | 120.00 | 17.80 | 56.00 | 265.00 | 0.00 | 28.20 | 88.10 | 920.00 | 640 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 28

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 2.57 | | 2.40 | 26.70 | 3.70 | 48.00 | 116.00 | 0.00 | 6.60 | 34.10 | 358.00 | 243 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 31

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 8.38 | | 8.10 | 99.70 | 15.70 | 52.00 | 235.00 | 0.00 | 20.80 | 76.60 | 781.00 | 540 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 32

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

## VCR 32

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 7.29 | | 7.29 | 80.60 | 14.10 | 55.00 | 259.00 | 0.00 | 20.90 | 45.60 | 701.00 | 485 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 33

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 1.53 | | 1.20 | 25.70 | 3.30 | 59.00 | 117.00 | 0.00 | 5.30 | 42.40 | 378.00 | 253 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 34

### Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 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** | 1.02 | | 0.40 | 14.40 | 1.90 | 68.00 | 104.00 | 0.00 | 4.00 | 64.10 | 392.00 | 237 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

## VCR 4

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

VCR 4

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 09/21/2023 Source of analysis: Lab analysis

| | Total N (mg/L) | NH4-N (mg/L) | Nitrate-N (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | Sodium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | EC (µmhos/cm) | TDS (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Value** | 20.30 | | 20.10 | 129.00 | 19.00 | 56.00 | 232.00 | 0.00 | 21.20 | 139.00 | 1,060.00 | 810 |
| **DL** | 1.00 | | 0.10 | 0.10 | 0.10 | 1.00 | 5.00 | 1.00 | 0.50 | 0.20 | 10.00 | 10 |

VCR 6

Ag Supply Well

Sample description: Ag Supply Well

Sample date: 11/16/2023 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** | 1.00 | | 0.30 | | | | | | | | 957.00 | 550 |
| **DL** | 1.00 | | 0.10 | | | | | | | | 10.00 | 10 |

## D. SOIL ANALYSES

Field CCF 8

Soil

Sample and source description: Soil

Sample date: 07/01/2021 Source of analysis: Lab analysis

| | Nitrate-N (mg/kg) | Total P (mg/kg) | Soluble P (mg/kg) | K (mg/kg) | EC (µmhos/cm) | Organic matter (%) | Total salt (mg/kg) |
|---|---|---|---|---|---|---|---|
| **Value** | | 72.70 | | | | | |
| **DL** | | 2.00 | | | | | |

## E. PLANT TISSUE ANALYSES

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

## Field 1 - 11/04/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 6,200.00 | 1,100.00 | 8,700.00 | | 11.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 1 - 05/31/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 73.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,200.00 | 700.00 | 4,900.00 | | 8.20 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 10 - 10/28/2022: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay
Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 12 - 11/20/2022: Alfalfa/ Grass Mix

### Alfalfa/Grass Mix

Sample and source description: Alfalfa/Grass Mix

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 12 - 06/15/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,500.00 | 800.00 | 7,900.00 | | 6.80 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 13 - 11/15/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage

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

Moisture: 44.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 7,300.00 | 1,600.00 | 10,000.00 | | 7.60 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 13 - 06/16/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,000.00 | 800.00 | 5,800.00 | | 7.80 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 14 - 11/16/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 55.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 7,000.00 | 1,700.00 | 11,100.00 | | 12.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 14 - 05/28/2023: Grass Blend (TEFT)

### Grass Blend (Teft)

Sample and source description: Grass Blend (Teft)
Sample date: 10/14/2022 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 3.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 9,800.00 | 3,800.00 | 40,500.00 | | 15.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 15 - 11/21/2022: Alfalfa/ Grass Mix

### Alfalfa/Grass Mix

Sample and source description: Alfalfa/Grass Mix
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 16 - 10/01/2017: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay
Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,500.00 | 2,700.00 | 31,600.00 | | 9.79 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 16 - 11/21/2022: Alfalfa/ Grass Mix

### Alfalfa/Grass Mix

Sample and source description: Alfalfa/Grass Mix
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 17E - 11/06/2022: Rye Grass

### Rye Grass Silage

Sample and source description: Rye Grass Silage
Sample date: 04/13/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 53.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 11,400.00 | 1,800.00 | 18,900.00 | | 13.40 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 17E - 06/13/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,400.00 | 700.00 | 4,600.00 | | 7.50 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 18W - 11/23/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 72.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 6,400.00 | 1,200.00 | 1,100.00 | | 11.40 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 18W - 05/17/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,500.00 | 700.00 | 6,300.00 | | 7.30 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 19 - 10/01/2020: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay
Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,500.00 | 2,700.00 | 31,600.00 | | 9.79 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 2 - 11/05/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 55.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 7,600.00 | 1,300.00 | 8,600.00 | | 9.80 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 2 - 06/08/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage

Sample date: 09/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,800.00 | 900.00 | 5,900.00 | | 7.90 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 20 - 10/01/2018: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 8.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,500.00 | 2,700.00 | 31,600.00 | | 9.79 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 21 - 09/01/2016: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 8.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 33,800.00 | 3,100.00 | 39,000.00 | | 11.12 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 21 - 11/29/2022: Alfalfa/ Grass Mix

### Alfalfa/Grass Mix

Sample and source description: Alfalfa/Grass Mix
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 70.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,600.00 | 1,000.00 | 7,400.00 | | 13.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 22 - 10/01/2019: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay
Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 33,800.00 | 3,100.00 | 39,000.00 | | 11.12 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 23W - 11/06/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,400.00 | 800.00 | 5,400.00 | | 10.60 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 23W - 06/12/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 63.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,700.00 | 800.00 | 4,200.00 | | 6.70 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 24E - 11/07/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 58.5 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,600.00 | 900.00 | 5,900.00 | | 10.90 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 24E - 06/01/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 58.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,700.00 | 800.00 | 4,900.00 | | 6.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 3 - 10/05/2021: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 8.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 4 - 11/03/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage

Sample date: 04/17/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 7,200.00 | 1,200.00 | 7,500.00 | | 13.80 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 4 - 05/10/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage

Sample date: 08/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,900.00 | 1,100.00 | 8,300.00 | | 8.60 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 5 - 11/19/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 74.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 7,000.00 | 1,400.00 | 11,400.00 | | 12.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 5 - 05/24/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,000.00 | 1,000.00 | 6,500.00 | | 6.70 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 6 - 10/01/2018: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay
Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 7 - 11/14/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 55.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 8,500.00 | 2,100.00 | 13,400.00 | | 10.30 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 7 - 06/21/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 69.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,500.00 | 900.00 | 6,500.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 8 - 11/08/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 04/14/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 75.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 8,700.00 | 1,400.00 | 11,000.00 | | 14.30 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field 8 - 05/05/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 08/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 67.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,000.00 | 700.00 | 6,400.00 | | 8.20 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field 9 - 10/01/2020: Alfalfa, hay

### Alfalfa Hay

Sample and source description: Alfalfa Hay
Sample date: 12/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 34,200.00 | 3,300.00 | 39,700.00 | | 10.44 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 1 - 10/29/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 61.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,700.00 | 700.00 | 5,000.00 | | 9.30 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 1 - 05/30/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 68.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,600.00 | 800.00 | 3,100.00 | | 7.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 10 - 12/01/2008: Almond, in shell

### Almonds

Sample and source description: Almonds
Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 11 - 12/01/2008: Almond, in shell

### Almonds

Sample and source description: Almonds
Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 12 - 12/01/2008: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 13 - 12/01/2008: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 14 - 12/01/2016: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 1-B - 10/31/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.7 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 6,000.00 | 600.00 | 6,800.00 | | 11.50 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 1-B - 05/20/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,900.00 | 900.00 | 3,600.00 | | 7.70 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 2 - 10/27/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.1 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,100.00 | 700.00 | 4,300.00 | | 11.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 2 - 06/10/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 63.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,400.00 | 1,000.00 | 3,400.00 | | 4.20 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 3 - 10/27/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.4 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 2,900.00 | 600.00 | 4,300.00 | | 10.60 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 3 - 06/10/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,200.00 | 800.00 | 2,600.00 | | 4.80 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 4 - 10/25/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/01/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 73.2 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 8,200.00 | 1,300.00 | 11,800.00 | | 11.30 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 4 - 05/18/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 08/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 62.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,700.00 | 1,400.00 | 5,100.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 5 - 12/01/2020: Almond, in shell

### Almonds

Sample and source description: Almonds
Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 6 - 12/01/2020: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 7 - 12/01/2014: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF 8 - 12/01/2007: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF 9 - 12/01/2007: Almond, in shell

### Almonds

Sample and source description: Almonds

Sample date: 11/16/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.3 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 13,600.00 | 1,300.00 | 13,400.00 | | 7.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF Home 1 - 11/11/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage

Sample date: 04/17/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,300.00 | 1,000.00 | 9,100.00 | | 12.70 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF Home 1 - 05/13/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage

Sample date: 08/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,100.00 | 1,000.00 | 5,100.00 | | 7.90 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF Home 2 - 11/08/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 04/30/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.9 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 6,100.00 | 3,000.00 | 18,400.00 | | 12.20 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF Home 2 - 05/22/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 62.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,300.00 | 1,100.00 | 4,700.00 | | 9.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF Home 3 - 11/02/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.0 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,500.00 | 900.00 | 5,200.00 | | 10.10 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

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## Field CCF Home 3 - 05/29/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 62.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 5,300.00 | 1,100.00 | 4,700.00 | | 9.00 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF Home 4 - 11/01/2022: Wheat, silage, soft dough

### Winter Forage

Sample and source description: Winter Forage
Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 57.8 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 3,800.00 | 1,000.00 | 5,900.00 | | 9.90 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## Field CCF Home 4 - 06/05/2023: Corn, silage

### Corn Silage

Sample and source description: Corn Silage
Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 57.6 %

| | Total N (mg/kg) | Total P (mg/kg) | Total K (mg/kg) | Total salt (mg/kg) | TFS (%) |
|---|---|---|---|---|---|
| **Value** | 4,800.00 | 1,200.00 | 5,100.00 | | 7.60 |
| **DL** | 100.00 | 100.00 | 100.00 | | 0.01 |

## F. SUBSURFACE (TILE) DRAINAGE ANALYSES

*No subsurface (tile) drainage analyses entered.*

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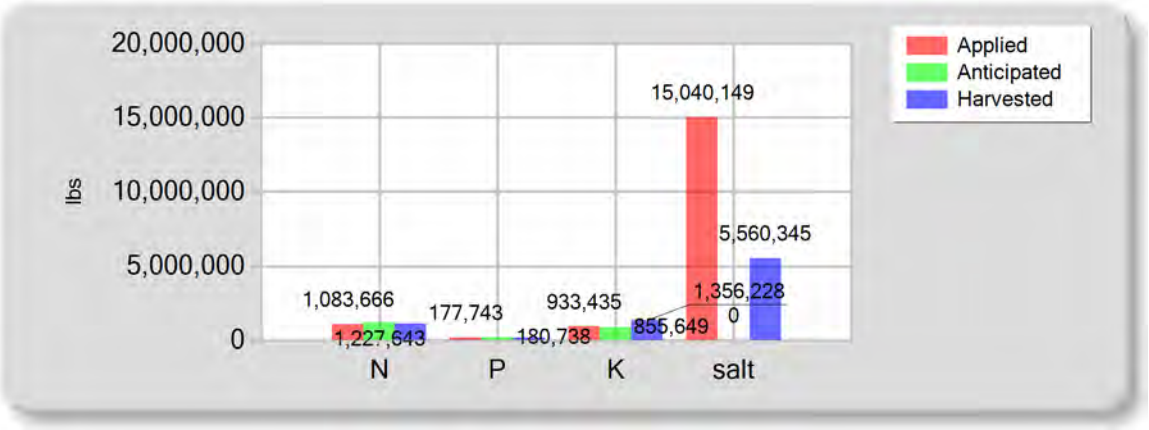
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

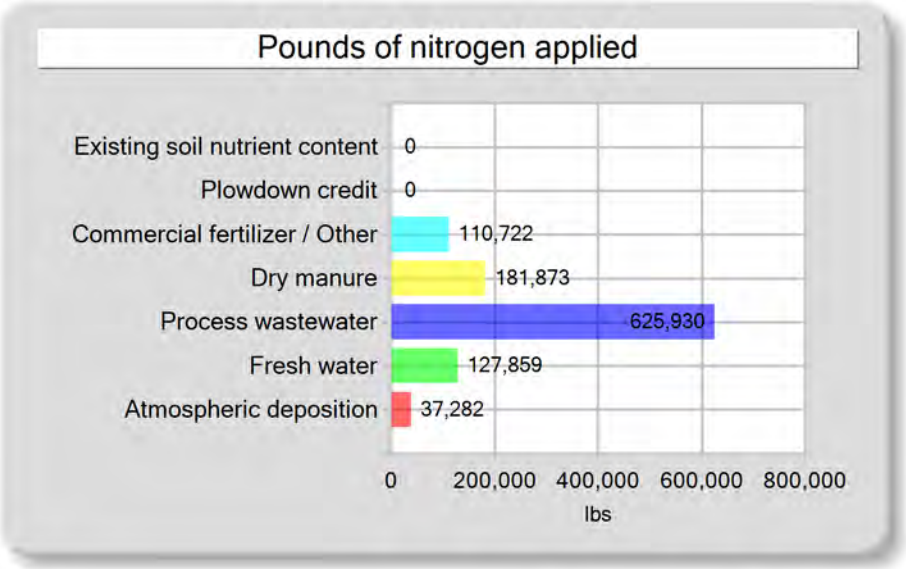
| | Total N (lbs) | Total P (lbs) | Total K (lbs) | Total salt (lbs) |
|---|---|---|---|---|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 0.00 | 0.00 | 0.00 |
| Commercial fertilizer / Other | 110,722.08 | 19,993.26 | 0.00 | 0.00 |
| Dry manure | 181,872.91 | 52,219.39 | 199,345.00 | 0.00 |
| Process wastewater | 625,929.73 | 105,529.89 | 734,090.44 | 3,994,426.38 |
| Fresh water | 127,859.31 | 0.00 | 0.00 | 11,045,722.67 |
| Atmospheric deposition | 37,282.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 1,083,666.04 | 177,742.54 | 933,435.44 | 15,040,149.04 |
| Anticipated crop nutrient removal | 1,227,642.60 | 180,737.80 | 855,648.50 | 0.00 |
| Actual crop nutrient removal | 1,127,359.62 | 178,790.30 | 1,356,228.28 | 5,560,345.29 |
| Nutrient balance | -43,693.58 | -1,047.76 | -422,792.84 | 9,479,803.75 |
| Applied to removed ratio | 0.96 | 0.99 | 0.69 | 2.70 |

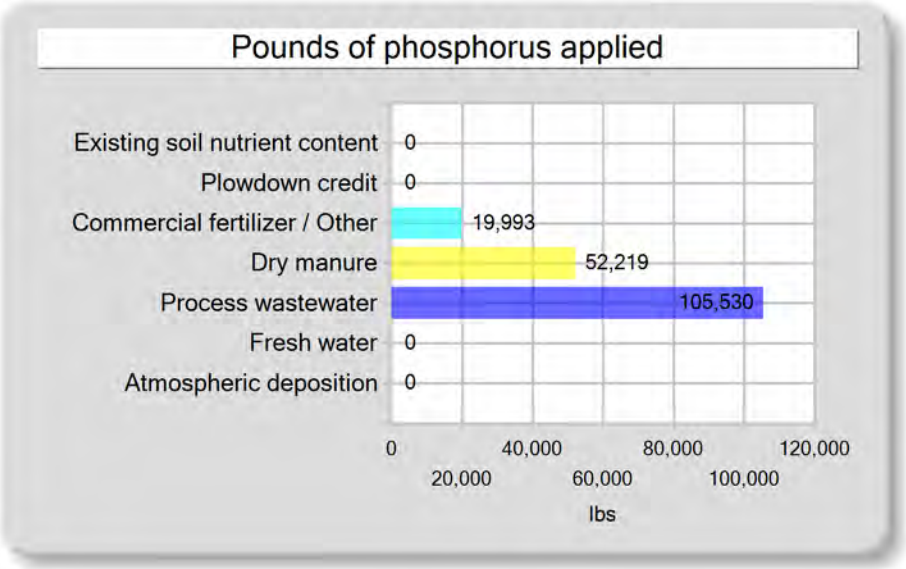
## B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

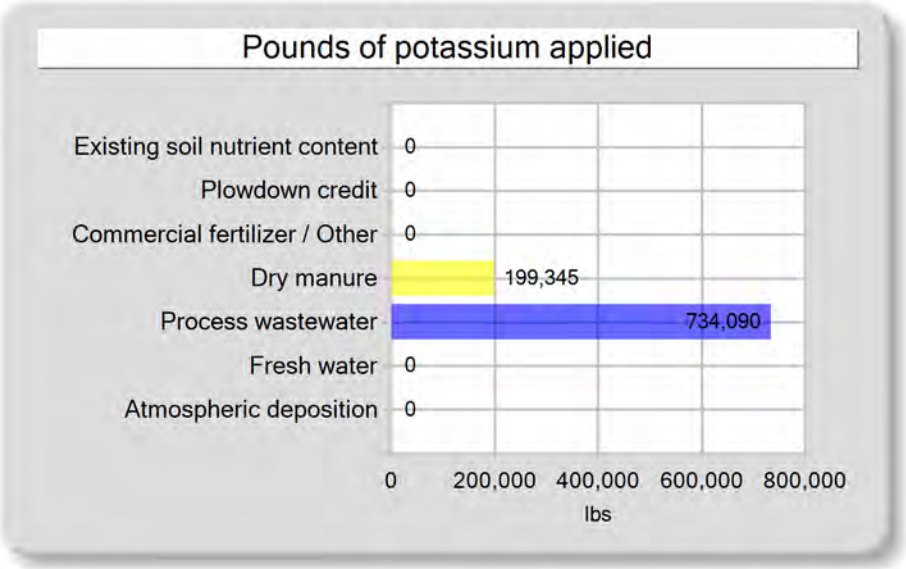


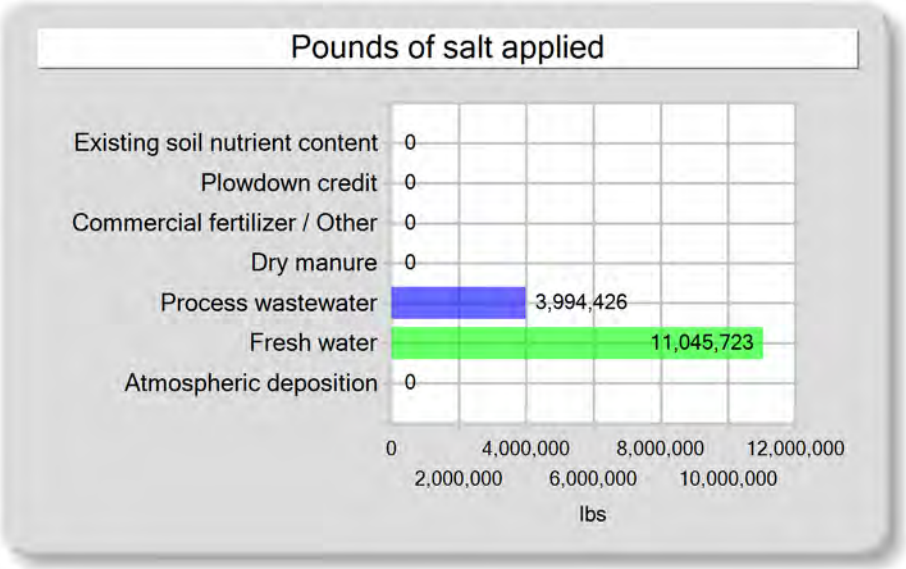
**Annual Report - General Order No. R5-2007-0035**
*Reporting period 01/01/2023 to 12/31/2023.*

**C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**



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

## EXCEPTION REPORTING

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

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

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

### B. STORM WATER DISCHARGES

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

*No stormwater discharges occurred during the reporting period.*

### C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

## NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

### A. NUTRIENT MANAGEMENT PLAN STATEMENTS

| | |
|---|---|
| Was the facility's NMP updated in the reporting period? | No |
| Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? | Yes |
| Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? | Yes |

### B. EXPORT AGREEMENT STATEMENT

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

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

ADDITIONAL NOTES

**A. NOTES**

Precipitation utilized during winter months to meet forage freshwater requirements.

Irrigation wells VCR DW 3, 12, 23, 25, & 30 were non-operational in 2023. All wells will be sampled once the wells become operational and used during the cropping season. Heavy rains during the winter season allowed for a greater amount of surface water allocation to grow crops.

Fields 23W Winter Forage, 1CCF Winter Forage, 2CCF Winter Forage, 3CCF Winter Forage, 12 Alfalfa/Grass Mix, 15 Alfalfa/Grass Mix, 16 Alfalfa/Grass Mix, 21 Alfalfa/Grass Mix, 5CCF Almonds, 7CCF Almonds, 10CCF Almonds, 11CCF Almonds, 12CCF Almonds, & 14CCF Almonds had lower than anticipated removal rates. This was due to lower than expected %N. The %N was based on analysis that was derived through a certified laboratory. However, the applications to these fields matched the low removal rates and was able to meet the field ratio threshold of 1.4.

Fields 1CCFH Winter Forage, 2CCFH Winter Forage, 3CCFH Winter Forage, 4CCFH Winter Forage, 1CCF Corn, 3CCF Corn, 1CCFH Corn, & 14 Grass Blend (TEFT) had lower than anticipated removal rates. This was due to lower than expected yields and expected %N. The %N was based on analysis that was derived through a certified laboratory. However, the applications to these fields matched the low removal rates and was able to meet the field ratio threshold of 1.4.

Fields 6CCF Almonds, 8CCF Almonds, 9CCF Almonds, & 13CCF Almonds had lower a than anticipated removal rates, which was due to low tonnage and %N. This resulted in field ratios slightly exceeding target limits.

Nutrients applied to permanent crops, such as trees and vines, are used for tree growth, vine development and fruit production (grapes, nuts, etc.). Comparing nutrient applications to nutrient content of harvested material for permanent crops is not appropriate and will result in high field ratios. A more accurate reporting methodology will need to be developed in order to account for nutrients retained in the permanent crops. All applications will continue to be monitored closely to ensure that over application of nutrients does not occur.

Fields 3 Alfalfa, 6 Alfalfa, 19 Alfalfa, 20 Alfalfa, 5CCF Almonds, 6CCF Almonds, 7CCF Almonds, 8CCF Almonds, 9CCF Almonds, 10CCF Almonds, 11CCF Almonds, 12CCF Almonds, 13CCF Almonds, & 14CCF Almonds received no wastewater or solid manure in 2023. All nutrients applied to these fields were contributed through freshwater applications and/or commercial fertilizer only.

Field 11 was fallow during the 2023 cropping season. Field 15 was fallow during the summer crop 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.*

DocuSigned by:
E881594AE1A34A6...

| | |
|---|---|
| SIGNATURE OF OWNER OF FACILITY | SIGNATURE OF OPERATOR OF FACILITY |
| Case Vlot | SAME AS OWNER |
| PRINT OR TYPE NAME | PRINT OR TYPE NAME |
| 6/13/2024 | |
| DATE | DATE |

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

ATTACHMENTS

## A. REQUIRED ATTACHMENTS

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

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

| Manure/Process Wastewater Tracking Manifests |
| --- |
| Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler. |

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

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

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

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## MANURE HAULER INFORMATION

Name of Hauling Company/Person: J & F Fertilizer

Address of Hauling Company/Person:

| 1275 North AVE | Gustine | CA | 95322 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: John Nunes (209) 495-1964
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

L & L Ranch (559) 706-7543
Name Phone Number

| 21707 Road 6 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 21707 Road 6 | Chowchilla | 93610 |
|---|---|---|
| Address | City | Zip Code |

Street and nearest cross street (if no address) Madera
County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 05/31/2023

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

General Order No. R5-2007-0035, Attachment D

## MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 3,000.00 tons

Manure Solids Content: 43.8 %

Method used to determine amount of manure:

Average Load Weight Multiplied by Total Loads

## CERTIFICATION

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

DocuSigned by:
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6/18/2024
Operator Signature Date

DocuSigned by:
John Nunes
AF5F6D7FC95A47F...
6/18/2024
Hauler Signature Date

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## PROCESS WASTEWATER HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Pistoresi Ag Services, Inc. (559) 674-7514
Name Phone Number

| 29808 Avenue 12 | Madera | CA | 93638 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 29808 Avenue 12 | Madera | 93638 |
|---|---|---|
| Address | City | Zip Code |

Madera
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 03/15/2023

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

General Order No. R5-2007-0035, Attachment D

## PROCESS WASTEWATER AMOUNT HAULED

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

Process Wastewater: 10,000,000 gallons

Method used to determine volume of process wastewater:

Pump rate (GPM) Multiplied by Run Time

## WRITTEN AGREEMENT

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

[ X ] YES [ ] NO

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

_____ (Operator shall provide initials here to acknowledge this requirement)

## CERTIFICATION

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

DocuSigned by:
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6/13/2024

Operator Signature | Date

DocuSigned by:
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6/13/2024

Hauler Signature | Date

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## PROCESS WASTEWATER HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Pistoresi Ag Services, Inc. (559) 674-7514
Name Phone Number

| 29808 Avenue 12 | Madera | CA | 93638 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 29808 Avenue 12 | Madera | 93638 |
|---|---|---|
| Address | City | Zip Code |

Madera
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 03/15/2023

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

General Order No. R5-2007-0035, Attachment D

## PROCESS WASTEWATER AMOUNT HAULED

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

Process Wastewater: 1,700,000 gallons

Method used to determine volume of process wastewater:

Pump rate (GPM) Multiplied by Run Time

## WRITTEN AGREEMENT

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

[ X ] YES [ ] NO

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

_____ (Operator shall provide initials here to acknowledge this requirement)

## CERTIFICATION

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6/13/2024

Operator Signature — Date

DocuSigned by:
E881594AE1A34A6...

6/13/2024

Hauler Signature — Date

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## PROCESS WASTEWATER HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Pistoresi Ag Services, Inc. (559) 674-7514
Name Phone Number

| 29808 Avenue 12 | Madera | CA | 93638 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 29808 Avenue 12 | Madera | 93638 |
|---|---|---|
| Address | City | Zip Code |

Madera
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 03/29/2023

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

General Order No. R5-2007-0035, Attachment D

## PROCESS WASTEWATER AMOUNT HAULED

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

Process Wastewater: 10,000,000 gallons

Method used to determine volume of process wastewater:

Pump rate (GPM) Multiplied by Run Time

## WRITTEN AGREEMENT

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

[ X ] YES [ ] NO

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

_____ (Operator shall provide initials here to acknowledge this requirement)

## CERTIFICATION

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6/13/2024

Operator Signature — Date

DocuSigned by:
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6/13/2024

Hauler Signature — Date

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## PROCESS WASTEWATER HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Pistoresi Ag Services, Inc. (559) 674-7514
Name Phone Number

| 29808 Avenue 12 | Madera | CA | 93638 |
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|---|---|---|
| Address | City | Zip Code |

Madera
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 03/29/2023

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

General Order No. R5-2007-0035, Attachment D

## PROCESS WASTEWATER AMOUNT HAULED

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

Process Wastewater: 10,000,000 gallons

Method used to determine volume of process wastewater:

Pump rate (GPM) Multiplied by Run Time

## WRITTEN AGREEMENT

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

[ X ] YES [ ] NO

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

_____ (Operator shall provide initials here to acknowledge this requirement)

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DocuSigned by:
E881594AE1A34A6...

6/13/2024

Operator Signature — Date

DocuSigned by:
E881594AE1A34A6...

6/13/2024

Hauler Signature — Date

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## PROCESS WASTEWATER HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Pistoresi Ag Services, Inc. (559) 674-7514
Name Phone Number

| 29808 Avenue 12 | Madera | CA | 93638 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 29808 Avenue 12 | Madera | 93638 |
|---|---|---|
| Address | City | Zip Code |

Madera
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 03/29/2023

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

General Order No. R5-2007-0035, Attachment D

## PROCESS WASTEWATER AMOUNT HAULED

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

Process Wastewater: 1,138,000 gallons

Method used to determine volume of process wastewater:

Pump rate (GPM) Multiplied by Run Time

## WRITTEN AGREEMENT

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

[ X ] YES [ ] NO

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

_____ (Operator shall provide initials here to acknowledge this requirement)

## CERTIFICATION

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

DocuSigned by:
E881594AE1A34A6...
6/13/2024

Operator Signature — Date

DocuSigned by:
E881594AE1A34A6...
6/13/2024

Hauler Signature — Date

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## MANURE HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Triangle T Ranch (209) 974-4300
Name Phone Number

| 18456 Road 1 | Dos Palos | CA | 93620 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 18456 Road 1 | Dos Palos | 93620 |
|---|---|---|
| Address | City | Zip Code |

| | Merced |
|---|---|
| Street and nearest cross street (if no address) | County |

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 06/21/2023

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

General Order No. R5-2007-0035, Attachment D

## MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 4,830.00 tons

Manure Solids Content: 43.8 %

Method used to determine amount of manure:

Average Load Weight Multiplied by Total Loads

## CERTIFICATION

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

DocuSigned by:
E881594AE1A34A6...

6/13/2024

Operator Signature | Date

DocuSigned by:
E881594AE1A34A6...

6/13/2024

Hauler Signature | Date

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

General Order No. R5-2007-0035, Attachment D

## INSTRUCTIONS

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

## OPERATOR INFORMATION

Name of Operator: Case Vlot

Name of Dairy Facility: Vlot Calf Ranch

Facility Address:

| 20330 Road 4 | Chowchilla | Madera | 93610 |
|---|---|---|---|
| Number and Street | City | County | Zip Code |

Contact Person Name and Phone Number: Case Vlot (209) 974-4300
Name Phone Number

## MANURE HAULER INFORMATION

Name of Hauling Company/Person: Vlot Calf Ranch

Address of Hauling Company/Person:

| 20330 Road 4 | Chowchilla | CA | 93610 |
|---|---|---|---|
| Number and Street | City | State | Zip Code |

Contact Person: Case Vlot (209) 974-4300
Name Phone Number

## DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Triangle T Ranch (209) 974-4300
Name Phone Number

| 18456 Road 1 | Dos Palos | CA | 93620 |
|---|---|---|---|
| Address | City | State | Zip Code |

Destination Address or Assessor's Parcel Number:

| 18456 Road 1 | Dos Palos | 93620 |
|---|---|---|
| Address | City | Zip Code |

| | Merced |
|---|---|
| Street and nearest cross street (if no address) | County |

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 11/03/2023

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

General Order No. R5-2007-0035, Attachment D

## MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 4,326.00 tons

Manure Solids Content: 22.8 %

Method used to determine amount of manure:

Average Load Weight Multiplied by Total Loads Hauled.

## CERTIFICATION

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

DocuSigned by:
E881594AE1A34A6...

6/13/2024

Operator Signature | Date

DocuSigned by:
E881594AE1A34A6...

6/13/2024

Hauler Signature | Date

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Samples in this Report

| Lab ID | Sample | Matrix | Sampled By | Crop | Date Sampled |
|---|---|---|---|---|---|
| 23I1523-01 | DW 1 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-02 | DW 2 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-03 | DW 4 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-04 | DW 10 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-05 | DW 11 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-06 | DW 18 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-07 | DW 21 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-08 | DW 22 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-09 | DW 24 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-10 | DW 26 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-11 | DW 28 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-12 | DW 32 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-13 | DW 31 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-14 | DW 33 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |
| 23I1523-15 | DW 34 | Ag Water | Case V. | Irrigation Well | 09/21/2023 0:00 |

Default Cooler
Temperature on Receipt °C: 13.5

Containers Intact
COC/Labels Agree
Received On Ice

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DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Notes and Definitions

| Item | Definition |
|---|---|
| H | Hold Time Exceeded |
| MCL | Drinking Water Maximum Contaminant Level |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| NES | Not Enough Sample |
| * | Not Taken |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results

**Sample: DW 1**
**23I1523-01 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **239** | mg/L | 10.0 | 1 | | 09/27/23 15:21 | SM 2320 B | | BEI0976 |
| **Calcium** | **100** | mg/L | 0.1 | 1 | | 09/28/23 17:08 | EPA 200.7 | | BEI1016 |
| **Chloride** | **88.2** | mg/L | 0.2 | 1 | 250 | 09/26/23 22:20 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:21 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.96** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:21 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **960** | umhos/cm | 10.0 | 1 | | 09/27/23 15:21 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **239** | mg/L | 5.00 | 1 | | 09/27/23 15:21 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.27** | mg/L | 0.500 | 1 | | 09/28/23 17:08 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **14.9** | mg/L | 0.1 | 1 | | 09/28/23 17:08 | EPA 200.7 | | BEI1016 |
| **Sodium** | **86** | mg/L | 1 | 1 | | 09/28/23 17:08 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **27.3** | mg/L | 0.1 | 1 | 10 | 09/26/23 22:20 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:21 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:21 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.1** | units | 1.0 | 1 | | 09/27/23 15:21 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **16.3** | mg/L | 0.5 | 1 | 250 | 09/26/23 22:20 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **660** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:28 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **27.3** | mg/L | 1.00 | 1 | | 09/28/23 09:28 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 2**
**23I1523-02 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **306** | mg/L | 10.0 | 1 | | 09/27/23 15:26 | SM 2320 B | | BEI0976 |
| **Calcium** | **174** | mg/L | 0.1 | 1 | | 09/28/23 17:09 | EPA 200.7 | | BEI1016 |
| **Chloride** | **201** | mg/L | 0.2 | 1 | 250 | 09/26/23 22:40 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:26 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **1.47** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:26 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **1470** | umhos/cm | 10.0 | 1 | | 09/27/23 15:26 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **306** | mg/L | 5.00 | 1 | | 09/27/23 15:26 | SM 2320 B | | BEI0976 |
| **Potassium** | **7.15** | mg/L | 0.500 | 1 | | 09/28/23 17:09 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **26.6** | mg/L | 0.1 | 1 | | 09/28/23 17:09 | EPA 200.7 | | BEI1016 |
| **Sodium** | **72** | mg/L | 1 | 1 | | 09/28/23 17:09 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **36.0** | mg/L | 0.1 | 1 | 10 | 09/26/23 22:40 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:26 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:26 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.0** | units | 1.0 | 1 | | 09/27/23 15:26 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **26.6** | mg/L | 0.5 | 1 | 250 | 09/26/23 22:40 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **1130** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:30 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **36.0** | mg/L | 1.00 | 1 | | 09/28/23 09:30 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 4**
**23I1523-03 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **232** | mg/L | 10.0 | 1 | | 09/27/23 15:33 | SM 2320 B | | BEI0976 |
| **Calcium** | **129** | mg/L | 0.1 | 1 | | 09/28/23 17:11 | EPA 200.7 | | BEI1016 |
| **Chloride** | **139** | mg/L | 0.2 | 1 | 250 | 09/26/23 22:59 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:33 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **1.06** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:33 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **1060** | umhos/cm | 10.0 | 1 | | 09/27/23 15:33 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **232** | mg/L | 5.00 | 1 | | 09/27/23 15:33 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.27** | mg/L | 0.500 | 1 | | 09/28/23 17:11 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **19.0** | mg/L | 0.1 | 1 | | 09/28/23 17:11 | EPA 200.7 | | BEI1016 |
| **Sodium** | **56** | mg/L | 1 | 1 | | 09/28/23 17:11 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **20.1** | mg/L | 0.1 | 1 | 10 | 09/26/23 22:59 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:33 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:33 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.2** | units | 1.0 | 1 | | 09/27/23 15:33 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **21.2** | mg/L | 0.5 | 1 | 250 | 09/26/23 22:59 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **810** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:31 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **20.3** | mg/L | 1.00 | 1 | | 09/28/23 09:31 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 10**
**23I1523-04 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **187** | mg/L | 10.0 | 1 | | 09/27/23 15:39 | SM 2320 B | | BEI0976 |
| **Calcium** | **61.2** | mg/L | 0.1 | 1 | | 09/28/23 17:12 | EPA 200.7 | | BEI1016 |
| **Chloride** | **43.3** | mg/L | 0.2 | 1 | 250 | 09/26/23 23:19 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:39 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.58** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:39 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **575** | umhos/cm | 10.0 | 1 | | 09/27/23 15:39 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **187** | mg/L | 5.00 | 1 | | 09/27/23 15:39 | SM 2320 B | | BEI0976 |
| **Potassium** | **3.98** | mg/L | 0.500 | 1 | | 09/28/23 17:12 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **9.0** | mg/L | 0.1 | 1 | | 09/28/23 17:12 | EPA 200.7 | | BEI1016 |
| **Sodium** | **50** | mg/L | 1 | 1 | | 09/28/23 17:12 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **7.1** | mg/L | 0.1 | 1 | 10 | 09/26/23 23:19 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:39 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:39 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.2** | units | 1.0 | 1 | | 09/27/23 15:39 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **13.4** | mg/L | 0.5 | 1 | 250 | 09/26/23 23:19 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **400** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:32 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **7.43** | mg/L | 1.00 | 1 | | 09/28/23 09:32 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 11**
**23I1523-05 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **383** | mg/L | 10.0 | 1 | | 09/27/23 15:44 | SM 2320 B | | BEI0976 |
| **Calcium** | **159** | mg/L | 0.1 | 1 | | 09/28/23 17:13 | EPA 200.7 | | BEI1016 |
| **Chloride** | **104** | mg/L | 0.2 | 1 | 250 | 09/26/23 23:39 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:44 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **1.40** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:44 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **1400** | umhos/cm | 10.0 | 1 | | 09/27/23 15:44 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **383** | mg/L | 5.00 | 1 | | 09/27/23 15:44 | SM 2320 B | | BEI0976 |
| **Potassium** | **8.06** | mg/L | 0.500 | 1 | | 09/28/23 17:13 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **25.3** | mg/L | 0.1 | 1 | | 09/28/23 17:13 | EPA 200.7 | | BEI1016 |
| **Sodium** | **98** | mg/L | 1 | 1 | | 09/28/23 17:13 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **48.1** | mg/L | 0.1 | 1 | 10 | 09/26/23 23:39 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:44 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:44 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.2** | units | 1.0 | 1 | | 09/27/23 15:44 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **25.0** | mg/L | 0.5 | 1 | 250 | 09/26/23 23:39 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **980** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:34 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **48.1** | mg/L | 1.00 | 1 | | 09/28/23 09:34 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 18**
**23I1523-06 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **93.2** | mg/L | 10.0 | 1 | | 09/27/23 15:52 | SM 2320 B | | BEI0976 |
| **Calcium** | **14.0** | mg/L | 0.1 | 1 | | 09/28/23 17:14 | EPA 200.7 | | BEI1016 |
| **Chloride** | **61.9** | mg/L | 0.2 | 1 | 250 | 09/26/23 23:59 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:52 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.39** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:52 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **386** | umhos/cm | 10.0 | 1 | | 09/27/23 15:52 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **93.2** | mg/L | 5.00 | 1 | | 09/27/23 15:52 | SM 2320 B | | BEI0976 |
| **Potassium** | **1.77** | mg/L | 0.500 | 1 | | 09/28/23 17:14 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **1.8** | mg/L | 0.1 | 1 | | 09/28/23 17:14 | EPA 200.7 | | BEI1016 |
| **Sodium** | **71** | mg/L | 1 | 1 | | 09/28/23 17:14 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **0.5** | mg/L | 0.1 | 1 | 10 | 09/26/23 23:59 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:52 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:52 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.4** | units | 1.0 | 1 | | 09/27/23 15:52 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **4.3** | mg/L | 0.5 | 1 | 250 | 09/26/23 23:59 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **260** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:35 | SM 4500-NH3 C | | BEI0975 |
| Total Nitrogen | ND | mg/L | 1.00 | 1 | | 09/28/23 09:35 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 21**
**23I1523-07 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **253** | mg/L | 10.0 | 1 | | 09/27/23 15:55 | SM 2320 B | | BEI0976 |
| **Calcium** | **100** | mg/L | 0.1 | 1 | | 09/28/23 17:15 | EPA 200.7 | | BEI1016 |
| **Chloride** | **57.4** | mg/L | 0.2 | 1 | 250 | 09/27/23 00:18 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 15:55 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.78** | mmhos/cm | 0.01 | 1 | | 09/27/23 15:55 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **779** | umhos/cm | 10.0 | 1 | | 09/27/23 15:55 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **253** | mg/L | 5.00 | 1 | | 09/27/23 15:55 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.41** | mg/L | 0.500 | 1 | | 09/28/23 17:15 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **15.2** | mg/L | 0.1 | 1 | | 09/28/23 17:15 | EPA 200.7 | | BEI1016 |
| **Sodium** | **50** | mg/L | 1 | 1 | | 09/28/23 17:15 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **13.4** | mg/L | 0.1 | 1 | 10 | 09/27/23 00:18 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 15:55 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 15:55 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.5** | units | 1.0 | 1 | | 09/27/23 15:55 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **19.3** | mg/L | 0.5 | 1 | 250 | 09/27/23 00:18 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **560** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:37 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **13.8** | mg/L | 1.00 | 1 | | 09/28/23 09:37 | SM 4500-NH3 C | | BEI0975 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 22**
**23I1523-08 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **309** | mg/L | 10.0 | 1 | | 09/27/23 16:01 | SM 2320 B | | BEI0976 |
| **Calcium** | **136** | mg/L | 0.1 | 1 | | 09/28/23 17:17 | EPA 200.7 | | BEI1016 |
| **Chloride** | **100** | mg/L | 0.2 | 1 | 250 | 09/27/23 00:38 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:01 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **1.06** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:01 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **1060** | umhos/cm | 10.0 | 1 | | 09/27/23 16:01 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **309** | mg/L | 5.00 | 1 | | 09/27/23 16:01 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.92** | mg/L | 0.500 | 1 | | 09/28/23 17:17 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **21.6** | mg/L | 0.1 | 1 | | 09/28/23 17:17 | EPA 200.7 | | BEI1016 |
| **Sodium** | **58** | mg/L | 1 | 1 | | 09/28/23 17:17 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **17.7** | mg/L | 0.1 | 1 | 10 | 09/27/23 00:38 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:01 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:01 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.3** | units | 1.0 | 1 | | 09/27/23 16:01 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **28.8** | mg/L | 0.5 | 1 | 250 | 09/27/23 00:38 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **690** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:46 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **17.7** | mg/L | 1.00 | 1 | | 09/28/23 09:46 | SM 4500-NH3 C | | BEI0975 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 24**
**23I1523-09 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **138** | mg/L | 10.0 | 1 | | 09/27/23 16:08 | SM 2320 B | | BEI0976 |
| **Calcium** | **51.7** | mg/L | 0.1 | 1 | | 09/28/23 17:18 | EPA 200.7 | | BEI1016 |
| **Chloride** | **55.6** | mg/L | 0.2 | 1 | 250 | 09/27/23 00:58 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:08 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.50** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:08 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **496** | umhos/cm | 10.0 | 1 | | 09/27/23 16:08 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **138** | mg/L | 5.00 | 1 | | 09/27/23 16:08 | SM 2320 B | | BEI0976 |
| **Potassium** | **2.63** | mg/L | 0.500 | 1 | | 09/28/23 17:18 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **6.7** | mg/L | 0.1 | 1 | | 09/28/23 17:18 | EPA 200.7 | | BEI1016 |
| **Sodium** | **43** | mg/L | 1 | 1 | | 09/28/23 17:18 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **4.4** | mg/L | 0.1 | 1 | 10 | 09/27/23 00:58 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:08 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:08 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.1** | units | 1.0 | 1 | | 09/27/23 16:08 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **11.3** | mg/L | 0.5 | 1 | 250 | 09/27/23 00:58 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **390** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:48 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **4.58** | mg/L | 1.00 | 1 | | 09/28/23 09:48 | SM 4500-NH3 C | | BEI0975 |

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Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 26**
**23I1523-10 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **265** | mg/L | 10.0 | 1 | | 09/27/23 16:13 | SM 2320 B | | BEI0976 |
| **Calcium** | **120** | mg/L | 0.1 | 1 | | 09/28/23 17:19 | EPA 200.7 | | BEI1016 |
| **Chloride** | **88.1** | mg/L | 0.2 | 1 | 250 | 09/27/23 01:18 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:13 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.92** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:13 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **920** | umhos/cm | 10.0 | 1 | | 09/27/23 16:13 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **265** | mg/L | 5.00 | 1 | | 09/27/23 16:13 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.88** | mg/L | 0.500 | 1 | | 09/28/23 17:19 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **17.8** | mg/L | 0.1 | 1 | | 09/28/23 17:19 | EPA 200.7 | | BEI1016 |
| **Sodium** | **56** | mg/L | 1 | 1 | | 09/28/23 17:19 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **15.4** | mg/L | 0.1 | 1 | 10 | 09/27/23 01:18 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:13 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:13 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.4** | units | 1.0 | 1 | | 09/27/23 16:13 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **28.2** | mg/L | 0.5 | 1 | 250 | 09/27/23 01:18 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **640** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:49 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **15.4** | mg/L | 1.00 | 1 | | 09/28/23 09:49 | SM 4500-NH3 C | | BEI0975 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 28**
**23I1523-11 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **116** | mg/L | 10.0 | 1 | | 09/27/23 16:32 | SM 2320 B | | BEI0976 |
| **Calcium** | **26.7** | mg/L | 0.1 | 1 | | 09/28/23 17:27 | EPA 200.7 | | BEI1016 |
| **Chloride** | **34.1** | mg/L | 0.2 | 1 | 250 | 09/27/23 03:57 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:32 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.36** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:32 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **358** | umhos/cm | 10.0 | 1 | | 09/27/23 16:32 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **116** | mg/L | 5.00 | 1 | | 09/27/23 16:32 | SM 2320 B | | BEI0976 |
| **Potassium** | **2.41** | mg/L | 0.500 | 1 | | 09/28/23 17:27 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **3.7** | mg/L | 0.1 | 1 | | 09/28/23 17:27 | EPA 200.7 | | BEI1016 |
| **Sodium** | **48** | mg/L | 1 | 1 | | 09/28/23 17:27 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **2.4** | mg/L | 0.1 | 1 | 10 | 09/27/23 03:57 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:32 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:32 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.2** | units | 1.0 | 1 | | 09/27/23 16:32 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **6.6** | mg/L | 0.5 | 1 | 250 | 09/27/23 03:57 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **243** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:50 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **2.57** | mg/L | 1.00 | 1 | | 09/28/23 09:50 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 32**
**23I1523-12 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **259** | mg/L | 10.0 | 1 | | 09/27/23 16:36 | SM 2320 B | | BEI0976 |
| **Calcium** | **80.6** | mg/L | 0.1 | 1 | | 09/28/23 17:28 | EPA 200.7 | | BEI1016 |
| **Chloride** | **45.6** | mg/L | 0.2 | 1 | 250 | 09/27/23 04:16 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:36 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.70** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:36 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **701** | umhos/cm | 10.0 | 1 | | 09/27/23 16:36 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **259** | mg/L | 5.00 | 1 | | 09/27/23 16:36 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.49** | mg/L | 0.500 | 1 | | 09/28/23 17:28 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **14.1** | mg/L | 0.1 | 1 | | 09/28/23 17:28 | EPA 200.7 | | BEI1016 |
| **Sodium** | **55** | mg/L | 1 | 1 | | 09/28/23 17:28 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **7.3** | mg/L | 0.1 | 1 | 10 | 09/27/23 04:16 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:36 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:36 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.5** | units | 1.0 | 1 | | 09/27/23 16:36 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **20.9** | mg/L | 0.5 | 1 | 250 | 09/27/23 04:16 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **485** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:52 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **7.29** | mg/L | 1.00 | 1 | | 09/28/23 09:52 | SM 4500-NH3 C | | BEI0975 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 31**
**23I1523-13 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **235** | mg/L | 10.0 | 1 | | 09/27/23 16:42 | SM 2320 B | | BEI0976 |
| **Calcium** | **99.7** | mg/L | 0.1 | 1 | | 09/28/23 17:29 | EPA 200.7 | | BEI1016 |
| **Chloride** | **76.6** | mg/L | 0.2 | 1 | 250 | 09/27/23 04:36 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:42 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.78** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:42 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **781** | umhos/cm | 10.0 | 1 | | 09/27/23 16:42 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **235** | mg/L | 5.00 | 1 | | 09/27/23 16:42 | SM 2320 B | | BEI0976 |
| **Potassium** | **4.65** | mg/L | 0.500 | 1 | | 09/28/23 17:29 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **15.7** | mg/L | 0.1 | 1 | | 09/28/23 17:29 | EPA 200.7 | | BEI1016 |
| **Sodium** | **52** | mg/L | 1 | 1 | | 09/28/23 17:29 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **8.1** | mg/L | 0.1 | 1 | 10 | 09/27/23 04:36 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:42 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:42 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.5** | units | 1.0 | 1 | | 09/27/23 16:42 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **20.8** | mg/L | 0.5 | 1 | 250 | 09/27/23 04:36 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **540** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:53 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **8.38** | mg/L | 1.00 | 1 | | 09/28/23 09:53 | SM 4500-NH3 C | | BEI0975 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 33**
**23I1523-14 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **117** | mg/L | 10.0 | 1 | | 09/27/23 16:48 | SM 2320 B | | BEI0976 |
| **Calcium** | **25.7** | mg/L | 0.1 | 1 | | 09/28/23 17:31 | EPA 200.7 | | BEI1016 |
| **Chloride** | **42.4** | mg/L | 0.2 | 1 | 250 | 09/27/23 04:56 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:48 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.38** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:48 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **378** | umhos/cm | 10.0 | 1 | | 09/27/23 16:48 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **117** | mg/L | 5.00 | 1 | | 09/27/23 16:48 | SM 2320 B | | BEI0976 |
| **Potassium** | **2.20** | mg/L | 0.500 | 1 | | 09/28/23 17:31 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **3.3** | mg/L | 0.1 | 1 | | 09/28/23 17:31 | EPA 200.7 | | BEI1016 |
| **Sodium** | **59** | mg/L | 1 | 1 | | 09/28/23 17:31 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **1.2** | mg/L | 0.1 | 1 | 10 | 09/27/23 04:56 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:48 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:48 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.2** | units | 1.0 | 1 | | 09/27/23 16:48 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **5.3** | mg/L | 0.5 | 1 | 250 | 09/27/23 04:56 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **253** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:55 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **1.53** | mg/L | 1.00 | 1 | | 09/28/23 09:55 | SM 4500-NH3 C | | BEI0975 |

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Account# 00-0022212
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Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Sample Results
**(Continued)**

**Sample: DW 34**
**23I1523-15 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **104** | mg/L | 10.0 | 1 | | 09/27/23 16:52 | SM 2320 B | | BEI0976 |
| **Calcium** | **14.4** | mg/L | 0.1 | 1 | | 09/28/23 17:32 | EPA 200.7 | | BEI1016 |
| **Chloride** | **64.1** | mg/L | 0.2 | 1 | 250 | 09/27/23 05:15 | EPA 300.0 | | BEI0953 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:52 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.39** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:52 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **392** | umhos/cm | 10.0 | 1 | | 09/27/23 16:52 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **104** | mg/L | 5.00 | 1 | | 09/27/23 16:52 | SM 2320 B | | BEI0976 |
| **Potassium** | **1.72** | mg/L | 0.500 | 1 | | 09/28/23 17:32 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **1.9** | mg/L | 0.1 | 1 | | 09/28/23 17:32 | EPA 200.7 | | BEI1016 |
| **Sodium** | **68** | mg/L | 1 | 1 | | 09/28/23 17:32 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1096 |
| **Nitrate Nitrogen as NO3N** | **0.4** | mg/L | 0.1 | 1 | 10 | 09/27/23 05:15 | EPA 300.0 | | BEI0953 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:52 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:52 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.3** | units | 1.0 | 1 | | 09/27/23 16:52 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **4.0** | mg/L | 0.5 | 1 | 250 | 09/27/23 05:15 | EPA 300.0 | | BEI0953 |
| **Total Filterable Solids (TDS)** | **237** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/28/23 09:56 | SM 4500-NH3 C | | BEI0975 |
| **Total Nitrogen** | **1.02** | mg/L | 1.00 | 1 | | 09/28/23 09:56 | SM 4500-NH3 C | | BEI0975 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0919*** | | | | | | | | | | |
| **Blank (BEI0919-BLK1)** | | | | | Prepared: 9/26/2023 | Analyzed: 9/28/2023 | | | | |
| Total Filterable Solids (TDS) | ND | | 10.0 | mg/L | | | | | | |
| **LCS (BEI0919-BS1)** | | | | | Prepared: 9/26/2023 | Analyzed: 9/28/2023 | | | | |
| Total Filterable Solids (TDS) | 23.8 | | 10.0 | mg/L | 2000 | | 1.19 | 0-200 | | |
| **Duplicate (BEI0919-DUP1)** | | **Source: 23I1523-03** | | | Prepared: 9/26/2023 | Analyzed: 9/28/2023 | | | | |
| Total Filterable Solids (TDS) | 790 | | 10.0 | mg/L | | 810 | | | 2.50 | 10 |
| **Duplicate (BEI0919-DUP2)** | | **Source: 23I1528-02** | | | Prepared: 9/26/2023 | Analyzed: 9/28/2023 | | | | |
| Total Filterable Solids (TDS) | 620 | | 10.0 | mg/L | | 640 | | | 3.17 | 10 |
| **Reference (BEI0919-SRM1)** | | | | | Prepared: 9/26/2023 | Analyzed: 9/28/2023 | | | | |
| Total Filterable Solids (TDS) | 310 | | | mg/L | 325.0 | | 95.4 | 90-110 | | |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0953*** | | | | | | | | | | |
| **Blank (BEI0953-BLK1)** | | | | | Prepared & Analyzed: 9/26/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEI0953-BLK2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEI0953-BLK3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEI0953-BLK4)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **LCS (BEI0953-BS1)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 4.7 | | 0.2 | mg/L | 5.000 | | 94.6 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 4.9 | | 0.1 | mg/L | 5.000 | | 97.9 | 90-110 | | |
| Sulfate (SO4) | 4.6 | | 0.5 | mg/L | 5.000 | | 91.4 | 90-110 | | |
| **LCS (BEI0953-BS2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 4.7 | | 0.2 | mg/L | 5.000 | | 93.8 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 4.9 | | 0.1 | mg/L | 5.000 | | 97.1 | 90-110 | | |
| Sulfate (SO4) | 4.5 | | 0.5 | mg/L | 5.000 | | 90.6 | 90-110 | | |
| **LCS (BEI0953-BS3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 4.9 | | 0.2 | mg/L | 5.000 | | 97.6 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.1 | | 0.1 | mg/L | 5.000 | | 101 | 90-110 | | |
| Sulfate (SO4) | 4.8 | | 0.5 | mg/L | 5.000 | | 95.1 | 90-110 | | |
| **Duplicate (BEI0953-DUP1)** | | **Source: 23I1523-06** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 62.5 | | 0.2 | mg/L | | 61.9 | | | 0.905 | 10 |
| Nitrate Nitrogen as NO3N | 0.5 | | 0.1 | mg/L | | 0.5 | | | 0.203 | 10 |
| Sulfate (SO4) | 4.4 | | 0.5 | mg/L | | 4.3 | | | 1.42 | 10 |
| **Duplicate (BEI0953-DUP2)** | | **Source: 23I1523-11** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 33.8 | | 0.2 | mg/L | | 34.1 | | | 0.972 | 10 |
| Nitrate Nitrogen as NO3N | 2.4 | | 0.1 | mg/L | | 2.4 | | | 1.56 | 10 |
| Sulfate (SO4) | 6.5 | | 0.5 | mg/L | | 6.6 | | | 1.54 | 10 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0953 (Continued)*** | | | | | | | | | | |
| **Duplicate (BEI0953-DUP3)** | | | **Source: 23I0005-01** | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 83.2 | | 0.2 | mg/L | | 81.8 | | | 1.68 | 10 |
| Nitrate Nitrogen as NO3N | 5.4 | | 0.1 | mg/L | | 5.3 | | | 2.04 | 10 |
| Sulfate (SO4) | 222 | | 0.5 | mg/L | | 218 | | | 1.89 | 10 |
| **Matrix Spike (BEI0953-MS1)** | | | **Source: 23I1523-06** | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 66.8 | | 0.2 | mg/L | 5.000 | 61.9 | 97.9 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.5 | | 0.1 | mg/L | 5.000 | 0.5 | 99.4 | 90-110 | | |
| Sulfate (SO4) | 9.3 | | 0.5 | mg/L | 5.000 | 4.3 | 98.3 | 90-110 | | |
| **Matrix Spike (BEI0953-MS2)** | | | **Source: 23I1523-11** | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 38.3 | | 0.2 | mg/L | 5.000 | 34.1 | 84.4 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 7.5 | | 0.1 | mg/L | 5.000 | 2.4 | 102 | 90-110 | | |
| Sulfate (SO4) | 11.2 | | 0.5 | mg/L | 5.000 | 6.6 | 93.3 | 90-110 | | |
| **Matrix Spike (BEI0953-MS3)** | | | **Source: 23I0005-01** | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 85.2 | | 0.2 | mg/L | 5.000 | 81.8 | 68.8 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 8.0 | | 0.1 | mg/L | 5.000 | 5.3 | 55.1 | 90-110 | | |
| Sulfate (SO4) | 223 | | 0.5 | mg/L | 5.000 | 218 | 88.4 | 90-110 | | |
| **Reference (BEI0953-SRM1)** | | | | | Prepared & Analyzed: 9/26/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.4 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.9 | | | mg/L | 10.00 | | 98.7 | 90-110 | | |
| Sulfate (SO4) | 9.5 | | | mg/L | 10.00 | | 95.1 | 90-110 | | |
| **Reference (BEI0953-SRM2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 12.2 | | | mg/L | 12.50 | | 97.8 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.8 | | | mg/L | 10.00 | | 98.2 | 90-110 | | |
| Sulfate (SO4) | 9.4 | | | mg/L | 10.00 | | 94.2 | 90-110 | | |
| **Reference (BEI0953-SRM3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.3 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.9 | | | mg/L | 10.00 | | 98.6 | 90-110 | | |
| Sulfate (SO4) | 9.5 | | | mg/L | 10.00 | | 94.5 | 90-110 | | |
| **Reference (BEI0953-SRM4)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 13.6 | | | mg/L | 12.50 | | 109 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 10.5 | | | mg/L | 10.00 | | 105 | 90-110 | | |
| Sulfate (SO4) | 9.2 | | | mg/L | 10.00 | | 92.0 | 90-110 | | |

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Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0975*** | | | | | | | | | | |
| **Blank (BEI0975-BLK1)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEI0975-BLK2)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEI0975-BLK3)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **LCS (BEI0975-BS1)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.98 | | 1.00 | mg/L | 5.709 | | 105 | 90-110 | | |
| **LCS (BEI0975-BS2)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.92 | | 1.00 | mg/L | 5.709 | | 104 | 90-110 | | |
| **Duplicate (BEI0975-DUP1)** | | **Source: 23I1523-05** | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Duplicate (BEI0975-DUP2)** | | **Source: 23I1526-01** | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 95.7 | | 3.50 | mg/L | | 91.3 | | | 4.75 | 10 |
| **Matrix Spike (BEI0975-MS1)** | | **Source: 23I1523-05** | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 7.79 | | 1.40 | mg/L | 7.992 | ND | 97.5 | 90-110 | | |
| **Matrix Spike (BEI0975-MS2)** | | **Source: 23I1526-01** | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 111 | | 3.50 | mg/L | 9.990 | 91.3 | 193 | 90-110 | | |
| **Reference (BEI0975-SRM1)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 25.3 | | | mg/L | 23.80 | | 106 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0976*** | | | | | | | | | | |
| **Blank (BEI0976-BLK1)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 4.7 | | 1.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Blank (BEI0976-BLK2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 5.0 | | 1.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| **Blank (BEI0976-BLK3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| pH | 5.2 | | 1.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Duplicate (BEI0976-DUP1)** | | **Source: 23I1523-10** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Electrical Conductivity | 0.92 | | 0.01 | mmhos/cm | | 0.92 | | | 0.195 | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Alkalinity as CaCO3 | 271 | | 10.0 | mg/L | | 265 | | | 2.10 | 10 |
| pH | 7.4 | | 1.0 | units | | 7.4 | | | 0.135 | 10 |
| Electrical Conductivity umhos | 922 | | 10.0 | umhos/cm | | 920 | | | 0.195 | 10 |
| **Duplicate (BEI0976-DUP2)** | | **Source: 23I1528-01** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | 313 | | 10.0 | mg/L | | 313 | | | 0.160 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Electrical Conductivity | 1.01 | | 0.01 | mmhos/cm | | 1.00 | | | 1.16 | 10 |
| pH | 7.5 | | 1.0 | units | | 7.5 | | | 0.801 | 10 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0976 (Continued)*** | | | | | | | | | | |
| **Duplicate (BEI0976-DUP2)** | | | **Source: 23I1528-01** | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity umhos | 1010 | | 10.0 | umhos/cm | | 999 | | | 1.16 | 10 |
| **Reference (BEI0976-SRM1)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | 40.5 | | | mg/L | 40.60 | | 99.7 | 90-110 | | |
| Electrical Conductivity | 527 | | | umhos/cm | 538.0 | | 97.9 | 90-110 | | |
| **Reference (BEI0976-SRM2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity | 535 | | | umhos/cm | 538.0 | | 99.5 | 90-110 | | |
| Alkalinity as CaCO3 | 39.7 | | | mg/L | 40.60 | | 97.8 | 90-110 | | |
| **Reference (BEI0976-SRM3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity | 544 | | | umhos/cm | 538.0 | | 101 | 90-110 | | |
| Alkalinity as CaCO3 | 39.7 | | | mg/L | 40.60 | | 97.8 | 90-110 | | |
| **Reference (BEI0976-SRM4)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 100 | 97.5-102.5 | | |
| **Reference (BEI0976-SRM5)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 4.1 | | | units | 4.000 | | 102 | 97.5-102.5 | | |
| **Reference (BEI0976-SRM6)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 4.1 | | | units | 4.000 | | 102 | 97.5-102.5 | | |
| **Reference (BEI0976-SRM7)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 5.1 | | | units | 5.000 | | 101 | 28178-101.71 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI1016*** | | | | | | | | | | |
| **Blank (BEI1016-BLK1)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEI1016-BLK2)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEI1016-BS1)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Potassium | 35.6 | | 0.500 | mg/L | 35.71 | | 99.5 | 90-110 | | |
| Sodium | 37 | | 1 | mg/L | 35.71 | | 104 | 90-110 | | |
| Calcium | 37.3 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| Magnesium | 37.0 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| **LCS (BEI1016-BS2)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 39 | | 1 | mg/L | 35.71 | | 108 | 90-110 | | |
| Calcium | 38.6 | | 0.1 | mg/L | 35.71 | | 108 | 90-110 | | |
| Potassium | 37.2 | | 0.500 | mg/L | 35.71 | | 104 | 90-110 | | |
| Magnesium | 38.4 | | 0.1 | mg/L | 35.71 | | 107 | 90-110 | | |
| **Duplicate (BEI1016-DUP1)** | | **Source: 23I1523-01** | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Calcium | 95.9 | | 0.1 | mg/L | | 100 | | | 4.36 | 15 |
| Sodium | 86 | | 1 | mg/L | | 86 | | | 0.652 | 15 |
| Potassium | 5.10 | | 0.500 | mg/L | | 5.27 | | | 3.28 | 15 |
| Magnesium | 14.4 | | 0.1 | mg/L | | 14.9 | | | 3.62 | 15 |
| **Matrix Spike (BEI1016-MS1)** | | **Source: 23I1523-01** | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 126 | | 1 | mg/L | 35.71 | 86 | 114 | 90-110 | | |
| Calcium | 137 | | 0.1 | mg/L | 35.71 | 100 | 102 | 90-110 | | |
| Potassium | 42.8 | | 0.500 | mg/L | 35.71 | 5.27 | 105 | 90-110 | | |
| Magnesium | 53.4 | | 0.1 | mg/L | 35.71 | 14.9 | 108 | 90-110 | | |
| **Matrix Spike (BEI1016-MS2)** | | **Source: 23I1523-11** | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 86 | | 1 | mg/L | 35.71 | 48 | 107 | 90-110 | | |
| Potassium | 39.6 | | 0.500 | mg/L | 35.71 | 2.41 | 104 | 90-110 | | |
| Calcium | 65.1 | | 0.1 | mg/L | 35.71 | 26.7 | 108 | 90-110 | | |
| Magnesium | 42.1 | | 0.1 | mg/L | 35.71 | 3.7 | 108 | 90-110 | | |
| **Reference (BEI1016-SRM2)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 95 | | | mg/L | 91.50 | | 103 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 09/29/2023 12:17

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI1016 (Continued)*** | | | | | | | | | | |
| **Reference (BEI1016-SRM2)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Potassium | 22.1 | | | mg/L | 21.90 | | 101 | 90-110 | | |
| **Reference (BEI1016-SRM3)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Calcium | 48.6 | | | mg/L | 45.90 | | 106 | 90-110 | | |
| Magnesium | 37.4 | | | mg/L | 35.60 | | 105 | 90-110 | | |

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09/25/23 15:45 23I1523

# DELLAVALLE LABORATORY, INC.

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

Purchase Order No

Bill To: 22212 (Acct #) | 09/08 (Cons #)

No. Samples: 8 No of Bottles: 32

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater
[X] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

**Name:** Vlot Calf Ranch
**Address:** PO Box 309
**City:** Chowchilla **State:** CA **Zip:** 93610
**Telephone:** **Fax:**
**Cell/Email:** vlotranch@outlook.com
**COPY TO:** labs@fragservices.com
ariordan@fragservices.com krhodes@fragservices.com
**REQUESTED BY:** Case V.
**PROJECT:**
**CROP:** Irrigation well

[X] Copy of Chain [X] QA/QC Documents
Sampled By: Case V.

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) Other + TN

| | Description of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 1 | DW 1 | 9/21 | | | |
| 2 | 2 | | | | |
| 3 | 4 | | | | |
| 4 | | | | | |
| 5 | 10 | | | | |
| 6 | 11 | | | | |
| 7 | | | | | |
| 8 | 18 | | | | |
| 9 | 21 | | | | |
| 10 | 22 | | | | |

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | Kierstan Rhodes | FR Ag Services | 0822 9/22 | 9/22 1000 |
| Second | | | | |
| Third | | | | |
| Fourth | [illegible] | DLI | 9/26 15:45 | |

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:***
Sampling hrs
Miles
Consulting

***Shipping***
$ In
$ Out

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Vlot Calf Ranch Water.xls]Dairy Water

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

Pg. 2 of 2

09/25/23 15:45 23I1523

# DELLAVALLE LABORATORY, INC.

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

Purchase Order No

Bill To: Acct # 22212 Cons # 09/08

No. Samples: 7 No of Bottles: 32

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater
[X] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

**Name:** Vlot Calf Ranch
**Address:** PO Box 309
**City:** Chowchilla **State:** CA **Zip:** 93610
**Telephone:** **Fax:**
**Cell/Email:** vlotranch@outlook.com
**COPY TO:** labs@fragservices.com
ariordan@fragservices.com krhodes@fragservices.com
**REQUESTED BY:** Case V.
**PROJECT:**
**CROP:** Irrigation well

[X] Copy of Chain [X] QA/QC Documents
Sampled By: Case V.

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) Other + TN

| | Description of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 1 | DW 24 | 9/21 | | | |
| 2 | 26 | | | | |
| 3 | 1 | | | | |
| 4 | 28 | | | | |
| 5 | 31 | | | | |
| 6 | 32 | | | | |
| 7 | 33 | | | | |
| 8 | 34 | | | | |
| 9 | | | | | |
| 10 | | | | | |

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | Kierstan Rhodes | FR Ag Services | 0f22 9/22 | 9/22 1000 |
| Second | | | | |
| Third | | | | |
| Fourth | [illegible] | DLL | 9/26 15:45 | |

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:***
Sampling hrs
Miles
Consulting

***Shipping***
$ In
$ Out

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Vlot Calf Ranch Water.xls]Dairy Water

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

09/25/23 15:45 23I1523

**Shipping Information:** Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

| | Type of Container(s) Received | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | * pH Value | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plastics | * pH Value | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Plastics | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| Special | PO4-P Kit | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| | **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| Plastics | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Plastics | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| VOA Vials | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| Glass | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| Glass | 500 mL glass unpreserved (White) | | | | | | | | | | |
| Glass | 500 mL AG HCl (Blue) | | | | | | | | | | |
| Glass | 1 L AG unpreserved (White) | | | | | | | | | | |
| Glass | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| Special | Cyanide - 500 mL NaOH | | | | | | | | | | |
| Special | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| Special | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| Special | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| Special | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| Special | DO KIT | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |

SEND OUT

DocuSign Envelope ID: 8B68CAA9-215D-413D-9ADF-FB7681E7B6B8

09/25/23 15:45 23I1523

**Shipping Information:** Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

| Type of Container(s) Received | | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | * pH Value | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | 1 | 1 | 1 | 1 | 1 | | | | | |
| Plastics | * pH Value | <2 | <2 | <2 | <2 | <2 | | | | | |
| Plastics | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | 1 | 1 | 1 | 1 | 1 | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| Special | PO4-P Kit | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| Plastics | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Plastics | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| VOA Vials | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| Glass | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| Glass | 500 mL glass unpreserved (White) | | | | | | | | | | |
| Glass | 500 mL AG HCl (Blue) | | | | | | | | | | |
| Glass | 1 L AG unpreserved (White) | | | | | | | | | | |
| Glass | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| Special | Cyanide - 500 mL NaOH | | | | | | | | | | |
| Special | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| Special | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| Special | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| Special | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| Special | DO KIT | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |

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SEND OUT

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DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Samples in this Report

| Lab ID | Sample | Matrix | Sampled By | Crop | Date Sampled |
|---|---|---|---|---|---|
| 23I1528-01 | DOM 51 | Drinking Water | Case V. | Domestic Well | 09/21/2023 8:00 |
| 23I1528-02 | DOM 53 | Drinking Water | Case V. | Domestic Well | 09/21/2023 8:10 |
| 23I1528-03 | DOM 7 | Drinking Water | Case V. | Domestic Well | 09/21/2023 0:00 |
| 23I1528-04 | DOM 14 | Drinking Water | Case V. | Domestic Well | 09/21/2023 0:00 |
| 23I1528-05 | DOM 27 | Drinking Water | Case V. | Domestic Well | 09/21/2023 0:00 |

Default Cooler Temperature on Receipt °C: 14.1
Containers Intact
COC/Labels Agree
Received On Ice

## Notes and Definitions

| Item | Definition |
|---|---|
| H | Hold Time Exceeded |
| MCL | Drinking Water Maximum Contaminant Level |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| NES | Not Enough Sample |
| * | Not Taken |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Sample Results

**Sample: DOM 51**
**23I1528-01 (Water)**

Sampled: 9/21/2023 8:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **313** | mg/L | 10.0 | 1 | | 09/27/23 16:55 | SM 2320 B | | BEI0976 |
| **Calcium** | **125** | mg/L | 0.1 | 1 | | 09/28/23 17:33 | EPA 200.7 | | BEI1016 |
| **Chloride** | **100** | mg/L | 0.2 | 1 | 250 | 09/26/23 22:25 | EPA 300.0 | | BEI0917 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 16:55 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **1.00** | mmhos/cm | 0.01 | 1 | | 09/27/23 16:55 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **999** | umhos/cm | 10.0 | 1 | | 09/27/23 16:55 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **313** | mg/L | 5.00 | 1 | | 09/27/23 16:55 | SM 2320 B | | BEI0976 |
| **Potassium** | **5.76** | mg/L | 0.500 | 1 | | 09/28/23 17:33 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **20.0** | mg/L | 0.1 | 1 | | 09/28/23 17:33 | EPA 200.7 | | BEI1016 |
| **Sodium** | **61** | mg/L | 1 | 1 | | 09/28/23 17:33 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 08:00 | Field | | BEI1129 |
| **Nitrate Nitrogen as NO3N** | **7.9** | mg/L | 0.1 | 1 | 10 | 09/26/23 22:25 | EPA 300.0 | | BEI0917 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 16:55 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 16:55 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.5** | units | 1.0 | 1 | | 09/27/23 16:55 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **25.5** | mg/L | 0.5 | 1 | 250 | 09/26/23 22:25 | EPA 300.0 | | BEI0917 |
| **Total Filterable Solids (TDS)** | **640** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/29/23 11:58 | SM 4500-NH3 C | | BEI1024 |
| **Total Nitrogen** | **7.93** | mg/L | 1.00 | 1 | | 09/29/23 11:58 | SM 4500-NH3 C | | BEI1024 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Sample Results
**(Continued)**

**Sample: DOM 53**
**23I1528-02 (Water)**

Sampled: 9/21/2023 8:10
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **320** | mg/L | 10.0 | 1 | | 09/27/23 17:02 | SM 2320 B | | BEI0976 |
| **Calcium** | **110** | mg/L | 0.1 | 1 | | 09/28/23 17:34 | EPA 200.7 | | BEI1016 |
| **Chloride** | **70.0** | mg/L | 0.2 | 1 | 250 | 09/26/23 22:45 | EPA 300.0 | | BEI0917 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 17:02 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.93** | mmhos/cm | 0.01 | 1 | | 09/27/23 17:02 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **926** | umhos/cm | 10.0 | 1 | | 09/27/23 17:02 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **320** | mg/L | 5.00 | 1 | | 09/27/23 17:02 | SM 2320 B | | BEI0976 |
| **Potassium** | **6.21** | mg/L | 0.500 | 1 | | 09/28/23 17:34 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **16.6** | mg/L | 0.1 | 1 | | 09/28/23 17:34 | EPA 200.7 | | BEI1016 |
| **Sodium** | **73** | mg/L | 1 | 1 | | 09/28/23 17:34 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 08:10 | Field | | BEI1129 |
| **Nitrate Nitrogen as NO3N** | **11.1** | mg/L | 0.1 | 1 | 10 | 09/26/23 22:45 | EPA 300.0 | | BEI0917 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 17:02 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 17:02 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.6** | units | 1.0 | 1 | | 09/27/23 17:02 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **27.1** | mg/L | 0.5 | 1 | 250 | 09/26/23 22:45 | EPA 300.0 | | BEI0917 |
| **Total Filterable Solids (TDS)** | **640** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/29/23 12:00 | SM 4500-NH3 C | | BEI1024 |
| **Total Nitrogen** | **11.3** | mg/L | 1.00 | 1 | | 09/29/23 12:00 | SM 4500-NH3 C | | BEI1024 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Sample Results
**(Continued)**

**Sample: DOM 7**
**23I1528-03 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **181** | mg/L | 10.0 | 1 | | 09/27/23 17:10 | SM 2320 B | | BEI0976 |
| **Calcium** | **56.7** | mg/L | 0.1 | 1 | | 09/28/23 17:35 | EPA 200.7 | | BEI1016 |
| **Chloride** | **44.4** | mg/L | 0.2 | 1 | 250 | 09/26/23 23:06 | EPA 300.0 | | BEI0917 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 17:10 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.56** | mmhos/cm | 0.01 | 1 | | 09/27/23 17:10 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **561** | umhos/cm | 10.0 | 1 | | 09/27/23 17:10 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **181** | mg/L | 5.00 | 1 | | 09/27/23 17:10 | SM 2320 B | | BEI0976 |
| **Potassium** | **3.76** | mg/L | 0.500 | 1 | | 09/28/23 17:35 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **8.0** | mg/L | 0.1 | 1 | | 09/28/23 17:35 | EPA 200.7 | | BEI1016 |
| **Sodium** | **51** | mg/L | 1 | 1 | | 09/28/23 17:35 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1129 |
| **Nitrate Nitrogen as NO3N** | **5.4** | mg/L | 0.1 | 1 | 10 | 09/26/23 23:06 | EPA 300.0 | | BEI0917 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 17:10 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 17:10 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.3** | units | 1.0 | 1 | | 09/27/23 17:10 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **14.4** | mg/L | 0.5 | 1 | 250 | 09/26/23 23:06 | EPA 300.0 | | BEI0917 |
| **Total Filterable Solids (TDS)** | **375** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/29/23 12:01 | SM 4500-NH3 C | | BEI1024 |
| **Total Nitrogen** | **5.84** | mg/L | 1.00 | 1 | | 09/29/23 12:01 | SM 4500-NH3 C | | BEI1024 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Sample Results
**(Continued)**

**Sample: DOM 14**
**23I1528-04 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **312** | mg/L | 10.0 | 1 | | 09/27/23 17:14 | SM 2320 B | | BEI0976 |
| **Calcium** | **148** | mg/L | 0.1 | 1 | | 09/28/23 17:36 | EPA 200.7 | | BEI1016 |
| **Chloride** | **85.0** | mg/L | 0.2 | 1 | 250 | 09/26/23 23:27 | EPA 300.0 | | BEI0917 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 17:14 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **1.17** | mmhos/cm | 0.01 | 1 | | 09/27/23 17:14 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **1170** | umhos/cm | 10.0 | 1 | | 09/27/23 17:14 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **312** | mg/L | 5.00 | 1 | | 09/27/23 17:14 | SM 2320 B | | BEI0976 |
| **Potassium** | **6.93** | mg/L | 0.500 | 1 | | 09/28/23 17:36 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **22.4** | mg/L | 0.1 | 1 | | 09/28/23 17:36 | EPA 200.7 | | BEI1016 |
| **Sodium** | **73** | mg/L | 1 | 1 | | 09/28/23 17:36 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1129 |
| **Nitrate Nitrogen as NO3N** | **36.7** | mg/L | 0.1 | 1 | 10 | 09/26/23 23:27 | EPA 300.0 | | BEI0917 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 17:14 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 17:14 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.6** | units | 1.0 | 1 | | 09/27/23 17:14 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **22.1** | mg/L | 0.5 | 1 | 250 | 09/26/23 23:27 | EPA 300.0 | | BEI0917 |
| **Total Filterable Solids (TDS)** | **820** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/29/23 12:03 | SM 4500-NH3 C | | BEI1024 |
| **Total Nitrogen** | **36.7** | mg/L | 1.00 | 1 | | 09/29/23 12:03 | SM 4500-NH3 C | | BEI1024 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Sample Results
**(Continued)**

**Sample: DOM 27**
**23I1528-05 (Water)**

Sampled: 9/21/2023 0:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **135** | mg/L | 10.0 | 1 | | 09/27/23 17:21 | SM 2320 B | | BEI0976 |
| **Calcium** | **24.0** | mg/L | 0.1 | 1 | | 09/28/23 17:38 | EPA 200.7 | | BEI1016 |
| **Chloride** | **37.4** | mg/L | 0.2 | 1 | 250 | 09/27/23 04:19 | EPA 300.0 | | BEI0917 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 09/27/23 17:21 | SM 2320 B | | BEI0976 |
| **Electrical Conductivity** | **0.40** | mmhos/cm | 0.01 | 1 | | 09/27/23 17:21 | SM 2510 B | | BEI0976 |
| **Electrical Conductivity umhos** | **404** | umhos/cm | 10.0 | 1 | | 09/27/23 17:21 | SM 2510 B | | BEI0976 |
| **Bicarbonate as CaCO3** | **135** | mg/L | 5.00 | 1 | | 09/27/23 17:21 | SM 2320 B | | BEI0976 |
| **Potassium** | **2.15** | mg/L | 0.500 | 1 | | 09/28/23 17:38 | EPA 200.7 | | BEI1016 |
| **Magnesium** | **3.4** | mg/L | 0.1 | 1 | | 09/28/23 17:38 | EPA 200.7 | | BEI1016 |
| **Sodium** | **59** | mg/L | 1 | 1 | | 09/28/23 17:38 | EPA 200.7 | | BEI1016 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 09/21/23 00:00 | Field | | BEI1129 |
| **Nitrate Nitrogen as NO3N** | **1.9** | mg/L | 0.1 | 1 | 10 | 09/27/23 04:19 | EPA 300.0 | | BEI0917 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 09/27/23 17:21 | SM 2320 B | | BEI0976 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 09/27/23 17:21 | SM 4500-H+ | H | BEI0976 |
| **pH** | **7.3** | units | 1.0 | 1 | | 09/27/23 17:21 | SM 4500-H+ | H | BEI0976 |
| **Sulfate (SO4)** | **6.9** | mg/L | 0.5 | 1 | 250 | 09/27/23 04:19 | EPA 300.0 | | BEI0917 |
| **Total Filterable Solids (TDS)** | **263** | mg/L | 10.0 | 1 | | 09/28/23 16:22 | SM 2540 C | | BEI0919 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 09/29/23 12:04 | SM 4500-NH3 C | | BEI1024 |
| **Total Nitrogen** | **2.45** | mg/L | 1.00 | 1 | | 09/29/23 12:04 | SM 4500-NH3 C | | BEI1024 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Quality Control

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0917*** | | | | | | | | | | |
| **Blank (BEI0917-BLK1)** | | | | | Prepared & Analyzed: 9/26/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEI0917-BLK2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEI0917-BLK3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **LCS (BEI0917-BS1)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 4.6 | | 0.2 | mg/L | 5.000 | | 92.8 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 4.8 | | 0.1 | mg/L | 5.000 | | 95.6 | 90-110 | | |
| Sulfate (SO4) | 4.4 | | 0.5 | mg/L | 5.000 | | 87.5 | 90-110 | | |
| **LCS (BEI0917-BS2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 4.6 | | 0.2 | mg/L | 5.000 | | 92.8 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 4.8 | | 0.1 | mg/L | 5.000 | | 95.6 | 90-110 | | |
| Sulfate (SO4) | 4.4 | | 0.5 | mg/L | 5.000 | | 87.6 | 90-110 | | |
| **Duplicate (BEI0917-DUP1)** | | **Source: 23I1528-03** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 44.5 | | 0.2 | mg/L | | 44.4 | | | 0.218 | 10 |
| Nitrate Nitrogen as NO3N | 5.5 | | 0.1 | mg/L | | 5.4 | | | 0.514 | 10 |
| Sulfate (SO4) | 14.6 | | 0.5 | mg/L | | 14.4 | | | 0.862 | 10 |
| **Duplicate (BEI0917-DUP2)** | | **Source: 23I1528-05** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 37.2 | | 0.2 | mg/L | | 37.4 | | | 0.657 | 10 |
| Nitrate Nitrogen as NO3N | 1.9 | | 0.1 | mg/L | | 1.9 | | | 1.02 | 10 |
| Sulfate (SO4) | 6.9 | | 0.5 | mg/L | | 6.9 | | | 1.33 | 10 |
| **Matrix Spike (BEI0917-MS1)** | | **Source: 23I1528-03** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 49.0 | | 0.2 | mg/L | 5.000 | 44.4 | 92.6 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 10.5 | | 0.1 | mg/L | 5.000 | 5.4 | 101 | 90-110 | | |
| Sulfate (SO4) | 19.4 | | 0.5 | mg/L | 5.000 | 14.4 | 98.9 | 90-110 | | |
| **Matrix Spike (BEI0917-MS2)** | | **Source: 23I1528-05** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 41.6 | | 0.2 | mg/L | 5.000 | 37.4 | 83.0 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 6.7 | | 0.1 | mg/L | 5.000 | 1.9 | 96.7 | 90-110 | | |
| Sulfate (SO4) | 11.5 | | 0.5 | mg/L | 5.000 | 6.9 | 90.7 | 90-110 | | |

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Reported: 10/02/2023 10:14

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0917 (Continued)*** | | | | | | | | | | |
| **Reference (BEI0917-SRM1)** | | | | | Prepared & Analyzed: 9/26/2023 | | | | | |
| Chloride | 12.1 | | | mg/L | 12.50 | | 96.8 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.7 | | | mg/L | 10.00 | | 96.6 | 90-110 | | |
| Sulfate (SO4) | 9.3 | | | mg/L | 10.00 | | 92.8 | 90-110 | | |
| **Reference (BEI0917-SRM2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Chloride | 12.1 | | | mg/L | 12.50 | | 97.0 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.7 | | | mg/L | 10.00 | | 96.7 | 90-110 | | |
| Sulfate (SO4) | 9.3 | | | mg/L | 10.00 | | 92.7 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0919*** | | | | | | | | | | |
| **Blank (BEI0919-BLK1)** | | | | | Prepared: 9/26/2023 Analyzed: 9/28/2023 | | | | | |
| Total Filterable Solids (TDS) | ND | | 10.0 | mg/L | | | | | | |
| **LCS (BEI0919-BS1)** | | | | | Prepared: 9/26/2023 Analyzed: 9/28/2023 | | | | | |
| Total Filterable Solids (TDS) | 23.8 | | 10.0 | mg/L | 2000 | | 1.19 | 0-200 | | |
| **Duplicate (BEI0919-DUP1)** | | | **Source: 23I1523-03** | | Prepared: 9/26/2023 Analyzed: 9/28/2023 | | | | | |
| Total Filterable Solids (TDS) | 790 | | 10.0 | mg/L | | 810 | | | 2.50 | 10 |
| **Duplicate (BEI0919-DUP2)** | | | **Source: 23I1528-02** | | Prepared: 9/26/2023 Analyzed: 9/28/2023 | | | | | |
| Total Filterable Solids (TDS) | 620 | | 10.0 | mg/L | | 640 | | | 3.17 | 10 |
| **Reference (BEI0919-SRM1)** | | | | | Prepared: 9/26/2023 Analyzed: 9/28/2023 | | | | | |
| Total Filterable Solids (TDS) | 310 | | | mg/L | 325.0 | | 95.4 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0976*** | | | | | | | | | | |
| **Blank (BEI0976-BLK1)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 4.7 | | 1.0 | units | | | | | | |
| **Blank (BEI0976-BLK2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 5.0 | | 1.0 | units | | | | | | |
| **Blank (BEI0976-BLK3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| pH | 5.2 | | 1.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| **Duplicate (BEI0976-DUP1)** | | **Source: 23I1523-10** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity | 0.92 | | 0.01 | mmhos/cm | | 0.92 | | | 0.195 | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Alkalinity as CaCO3 | 271 | | 10.0 | mg/L | | 265 | | | 2.10 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| pH | 7.4 | | 1.0 | units | | 7.4 | | | 0.135 | 10 |
| Electrical Conductivity umhos | 922 | | 10.0 | umhos/cm | | 920 | | | 0.195 | 10 |
| **Duplicate (BEI0976-DUP2)** | | **Source: 23I1528-01** | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Electrical Conductivity | 1.01 | | 0.01 | mmhos/cm | | 1.00 | | | 1.16 | 10 |
| Alkalinity as CaCO3 | 313 | | 10.0 | mg/L | | 313 | | | 0.160 | 10 |
| pH | 7.5 | | 1.0 | units | | 7.5 | | | 0.801 | 10 |

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Reported: 10/02/2023 10:14

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI0976 (Continued)*** | | | | | | | | | | |
| **Duplicate (BEI0976-DUP2)** | | | **Source: 23I1528-01** | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity umhos | 1010 | | 10.0 | umhos/cm | | 999 | | | 1.16 | 10 |
| **Reference (BEI0976-SRM1)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Electrical Conductivity | 527 | | | umhos/cm | 538.0 | | 97.9 | 90-110 | | |
| Alkalinity as CaCO3 | 40.5 | | | mg/L | 40.60 | | 99.7 | 90-110 | | |
| **Reference (BEI0976-SRM2)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | 39.7 | | | mg/L | 40.60 | | 97.8 | 90-110 | | |
| Electrical Conductivity | 535 | | | umhos/cm | 538.0 | | 99.5 | 90-110 | | |
| **Reference (BEI0976-SRM3)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| Alkalinity as CaCO3 | 39.7 | | | mg/L | 40.60 | | 97.8 | 90-110 | | |
| Electrical Conductivity | 544 | | | umhos/cm | 538.0 | | 101 | 90-110 | | |
| **Reference (BEI0976-SRM4)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 100 | 97.5-102.5 | | |
| **Reference (BEI0976-SRM5)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 4.1 | | | units | 4.000 | | 102 | 97.5-102.5 | | |
| **Reference (BEI0976-SRM6)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 4.1 | | | units | 4.000 | | 102 | 97.5-102.5 | | |
| **Reference (BEI0976-SRM7)** | | | | | Prepared & Analyzed: 9/27/2023 | | | | | |
| pH | 5.1 | | | units | 5.000 | | 101 | 28178-101.71 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI1016*** | | | | | | | | | | |
| **Blank (BEI1016-BLK1)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEI1016-BLK2)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEI1016-BS1)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 37 | | 1 | mg/L | 35.71 | | 104 | 90-110 | | |
| Potassium | 35.6 | | 0.500 | mg/L | 35.71 | | 99.5 | 90-110 | | |
| Calcium | 37.3 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| Magnesium | 37.0 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| **LCS (BEI1016-BS2)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 39 | | 1 | mg/L | 35.71 | | 108 | 90-110 | | |
| Potassium | 37.2 | | 0.500 | mg/L | 35.71 | | 104 | 90-110 | | |
| Calcium | 38.6 | | 0.1 | mg/L | 35.71 | | 108 | 90-110 | | |
| Magnesium | 38.4 | | 0.1 | mg/L | 35.71 | | 107 | 90-110 | | |
| **Duplicate (BEI1016-DUP1)** | | **Source: 23I1523-01** | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 86 | | 1 | mg/L | | 86 | | | 0.652 | 15 |
| Calcium | 95.9 | | 0.1 | mg/L | | 100 | | | 4.36 | 15 |
| Potassium | 5.10 | | 0.500 | mg/L | | 5.27 | | | 3.28 | 15 |
| Magnesium | 14.4 | | 0.1 | mg/L | | 14.9 | | | 3.62 | 15 |
| **Matrix Spike (BEI1016-MS1)** | | **Source: 23I1523-01** | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Sodium | 126 | | 1 | mg/L | 35.71 | 86 | 114 | 90-110 | | |
| Potassium | 42.8 | | 0.500 | mg/L | 35.71 | 5.27 | 105 | 90-110 | | |
| Calcium | 137 | | 0.1 | mg/L | 35.71 | 100 | 102 | 90-110 | | |
| Magnesium | 53.4 | | 0.1 | mg/L | 35.71 | 14.9 | 108 | 90-110 | | |
| **Matrix Spike (BEI1016-MS2)** | | **Source: 23I1523-11** | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Potassium | 39.6 | | 0.500 | mg/L | 35.71 | 2.41 | 104 | 90-110 | | |
| Sodium | 86 | | 1 | mg/L | 35.71 | 48 | 107 | 90-110 | | |
| Calcium | 65.1 | | 0.1 | mg/L | 35.71 | 26.7 | 108 | 90-110 | | |
| Magnesium | 42.1 | | 0.1 | mg/L | 35.71 | 3.7 | 108 | 90-110 | | |
| **Reference (BEI1016-SRM2)** | | | | | Prepared: 9/27/2023 Analyzed: 9/28/2023 | | | | | |
| Potassium | 22.1 | | | mg/L | 21.90 | | 101 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI1016 (Continued)*** | | | | | | | | | | |
| **Reference (BEI1016-SRM2)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Sodium | 95 | | | mg/L | 91.50 | | 103 | 90-110 | | |
| **Reference (BEI1016-SRM3)** | | | | | Prepared: 9/27/2023 | Analyzed: 9/28/2023 | | | | |
| Calcium | 48.6 | | | mg/L | 45.90 | | 106 | 90-110 | | |
| Magnesium | 37.4 | | | mg/L | 35.60 | | 105 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 09/26/2023 15:45
Reported: 10/02/2023 10:14

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI1024*** | | | | | | | | | | |
| **Blank (BEI1024-BLK1)** | | | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEI1024-BLK2)** | | | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEI1024-BLK3)** | | | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **LCS (BEI1024-BS1)** | | | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.25 | | 1.00 | mg/L | 5.709 | | 92.0 | 90-110 | | |
| **LCS (BEI1024-BS2)** | | | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.94 | | 1.00 | mg/L | 5.709 | | 104 | 90-110 | | |
| **Duplicate (BEI1024-DUP1)** | | **Source: 23I1528-04** | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Duplicate (BEI1024-DUP2)** | | **Source: 23I1572-01** | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 17.5 | | 3.50 | mg/L | | 16.7 | | | 4.39 | 10 |
| **Matrix Spike (BEI1024-MS1)** | | **Source: 23I1528-04** | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 8.37 | | 1.40 | mg/L | 7.992 | ND | 105 | 90-110 | | |
| **Matrix Spike (BEI1024-MS2)** | | **Source: 23I1572-01** | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 26.7 | | 3.50 | mg/L | 9.990 | 16.7 | 99.7 | 90-110 | | |
| **Reference (BEI1024-SRM1)** | | | | | Prepared: 9/28/2023 | Analyzed: 9/29/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 22.0 | | | mg/L | 23.80 | | 92.6 | 90-110 | | |

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09/26/23 15:45 2311528

# DELLAVALLE LABORATORY, INC.

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

Purchase Order No

Bill To: 22212 (Acct #) | 09/08 (Cons #)

No. Samples: 5 No of Bottles: 5

Results Need By

Water Type: [X] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

**Name:** Vlot Calf Ranch
**Address:** PO Box 309
**City:** Chowchilla **State:** CA **Zip:** 93610
**Telephone:** **Fax:**
**Cell/Email:** vlotranch@outlook.com
**COPY TO:** labs@fragservices.com
ariordan@fragservices.com krhodes@fragservices.com
**REQUESTED BY:** Case V.
**PROJECT:**
**CROP:** Domestic wells

[X] Copy of Chain [X] QA/QC Documents
Sampled By: Case V.

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

| | Description of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 7.9 1 | DOM 51 | 9/21 | 0800 | 14.1 | |
| 11.1 2 | DOM 53 | ↓ | 0810 | 13.6 | |
| 54 3 | Dom 7 | | | 13.6 | |
| 36.7 4 | Dom 14 | | | 14.3 | |
| 1.05 5 | Dom 27 | | | 13.9 | |
| 6 | | | | | |
| 7 | | Kara 9/27/23 | | | |
| 8 | | 15:08 - per Alex, OK & Hx | | | |
| 9 | | | | | |
| 10 | | | | | |

VOSO mal c

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | Kierstan Rhodes | FR Ag Services | 0822 9/22 | 9/22 1000 |
| Second | | | | |
| Third | | | | |
| Fourth | | DLI | 9/26 15:45 | |

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*caf*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *caf* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:***
Sampling hrs
Miles
Consulting

***Shipping***
$ In
$ Out

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Vlot Calf Ranch Water.xls]Dairy Water

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09/26/23 15:45 23I1528

**Shipping Information:** Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

| | Type of Container(s) Received | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | * pH Value | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Plastics | * pH Value | <2 | <2 | <2 | <2 | <2 | | | | | |
| Plastics | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| Special | PO4-P Kit | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| | **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| Plastics | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Plastics | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| VOA Vials | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| Glass | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| Glass | 500 mL glass unpreserved (White) | | | | | | | | | | |
| Glass | 500 mL AG HCl (Blue) | | | | | | | | | | |
| Glass | 1 L AG unpreserved (White) | | | | | | | | | | |
| Glass | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| Special | Cyanide - 500 mL NaOH | | | | | | | | | | |
| Special | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| Special | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| Special | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| Special | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| Special | DO KIT | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |

SEND OUT

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DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/10/2023 09:09

## Samples in this Report

| Lab ID | Sample | Matrix | Sampled By | Crop | Date Sampled |
|---|---|---|---|---|---|
| 23J0291-01 | Bypass/Flow | Ag Water | | | 10/02/2023 9:20 |

Default Cooler Temperature on Receipt °C: -0.9

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

## Notes and Definitions

| Item | Definition |
|---|---|
| H | Hold Time Exceeded |
| MCL | Drinking Water Maximum Contaminant Level |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| NES | Not Enough Sample |
| * | Not Taken |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/10/2023 09:09

## Sample Results

**Sample: Bypass/Flow**
**23J0291-01 (Water)**

Sampled: 10/2/2023 9:20
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Electrical Conductivity** | **0.30** | mmhos/cm | 0.01 | 1 | | 10/05/23 15:37 | SM 2510 B | | BEJ0189 |
| **Electrical Conductivity umhos** | **296** | umhos/cm | 10.0 | 1 | | 10/05/23 15:37 | SM 2510 B | | BEJ0189 |
| **Nitrate Nitrogen as NO3N** | **0.3** | mg/L | 0.1 | 1 | 10 | 10/04/23 16:41 | EPA 300.0 | | BEI1070 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 15:37 | SM 4500-H+ | H | BEJ0189 |
| **pH** | **7.2** | units | 1.0 | 1 | | 10/05/23 15:37 | SM 4500-H+ | H | BEJ0189 |
| **Total Filterable Solids (TDS)** | **180** | mg/L | 10.0 | 1 | | 10/06/23 13:08 | SM 2540 C | | BEJ0199 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:32 | SM 4500-NH3 C | | BEJ0126 |
| Total Nitrogen | ND | mg/L | 1.00 | 1 | | 10/05/23 11:32 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/10/2023 09:09

## Quality Control

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEI1070*** | | | | | | | | | | |
| **Blank (BEI1070-BLK1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEI1070-BLK2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEI1070-BLK3)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEI1070-BS1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.2 | | 0.1 | mg/L | 5.000 | | 103 | 90-110 | | |
| **LCS (BEI1070-BS2)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.0 | | 0.1 | mg/L | 5.000 | | 101 | 90-110 | | |
| **Duplicate (BEI1070-DUP1)** | | **Source: 23J0291-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 0.3 | | 0.1 | mg/L | | 0.3 | | | 0.702 | 10 |
| **Duplicate (BEI1070-DUP2)** | | **Source: 23J0122-02** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 0.2 | | 0.1 | mg/L | | | | | 200 | 10 |
| **Matrix Spike (BEI1070-MS1)** | | **Source: 23J0291-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.4 | | 0.1 | mg/L | 5.000 | 0.3 | 103 | 90-110 | | |
| **Matrix Spike (BEI1070-MS2)** | | **Source: 23J0122-02** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.0 | | 0.1 | mg/L | 5.000 | | 99.6 | 90-110 | | |
| **Reference (BEI1070-SRM1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 10.2 | | | mg/L | 10.00 | | 102 | 90-110 | | |
| **Reference (BEI1070-SRM2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 10.3 | | | mg/L | 10.00 | | 103 | 90-110 | | |
| **Reference (BEI1070-SRM3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 10.3 | | | mg/L | 10.00 | | 103 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/10/2023 09:09

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0126*** | | | | | | | | | | |
| **Blank (BEJ0126-BLK1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEJ0126-BLK2)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **LCS (BEJ0126-BS1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.81 | | 1.00 | mg/L | 5.709 | | 102 | 90-110 | | |
| **LCS (BEJ0126-BS2)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.88 | | 1.00 | mg/L | 5.709 | | 103 | 90-110 | | |
| **Duplicate (BEJ0126-DUP1)** | | **Source: 23J0293-02** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Duplicate (BEJ0126-DUP2)** | | **Source: 23J0293-07** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Matrix Spike (BEJ0126-MS1)** | | **Source: 23J0293-02** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 8.02 | | 1.40 | mg/L | 7.992 | ND | 100 | 90-110 | | |
| **Matrix Spike (BEJ0126-MS2)** | | **Source: 23J0293-07** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 7.94 | | 1.40 | mg/L | 7.992 | ND | 99.4 | 90-110 | | |
| **Reference (BEJ0126-SRM1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 24.2 | | | mg/L | 23.80 | | 102 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/10/2023 09:09

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0189*** | | | | | | | | | | |
| **Blank (BEJ0189-BLK1)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 5.5 | | 1.0 | units | | | | | | |
| **Blank (BEJ0189-BLK3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| pH | 7.0 | | 1.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Duplicate (BEJ0189-DUP2)** | | **Source: 23J0307-01** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 0.03 | | 0.01 | mmhos/cm | | 0.03 | | | 2.61 | 10 |
| Electrical Conductivity umhos | 27.2 | | 10.0 | umhos/cm | | 26.5 | | | 2.61 | 10 |
| pH | 7.8 | | 1.0 | units | | 7.3 | | | 6.52 | 10 |
| **Reference (BEJ0189-SRM1)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 568 | | | umhos/cm | 538.0 | | 106 | 90-110 | | |
| **Reference (BEJ0189-SRM2)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 5.9 | | | units | 5.820 | | 101 | 28178-101.7 | | |
| **Reference (BEJ0189-SRM3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 1070 | | | umhos/cm | 1000 | | 107 | 90-110 | | |
| Electrical Conductivity umhos | 1070 | | | umhos/cm | 1000 | | 107 | 90-110 | | |
| **Reference (BEJ0189-SRM5)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 1080 | | | umhos/cm | 1000 | | 108 | 90-110 | | |
| Electrical Conductivity umhos | 1080 | | | umhos/cm | 1000 | | 108 | 90-110 | | |
| **Reference (BEJ0189-SRM6)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0189-SRM8)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/10/2023 09:09

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0199*** | | | | | | | | | | |
| **Blank (BEJ0199-BLK1)** | | | | | Prepared: 10/5/2023 | Analyzed: 10/6/2023 | | | | |
| Total Filterable Solids (TDS) | ND | | 10.0 | mg/L | | | | | | |
| **LCS (BEJ0199-BS1)** | | | | | Prepared: 10/5/2023 | Analyzed: 10/6/2023 | | | | |
| Total Filterable Solids (TDS) | 32.5 | | 10.0 | mg/L | 2000 | | 1.62 | 0-200 | | |
| **Duplicate (BEJ0199-DUP1)** | | **Source: 23J0291-01** | | | Prepared: 10/5/2023 | Analyzed: 10/6/2023 | | | | |
| Total Filterable Solids (TDS) | 180 | | 10.0 | mg/L | | 180 | | | 0.00 | 10 |
| **Reference (BEJ0199-SRM1)** | | | | | Prepared: 10/5/2023 | Analyzed: 10/6/2023 | | | | |
| Total Filterable Solids (TDS) | 323 | | | mg/L | 325.0 | | 99.5 | 90-110 | | |

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10/03/23 17:15 23J0291

# DELLAVALLE LABORATORY, INC.

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

No. Samples: 1 No of Bottles:

Purchase Order No

Bill To: Acct # Cons #

Results Need By

**Water Type:** [ ] Drinking Water [ ] Wastewater
[X] Ag Water [ ] Groundwater [ ] Monitoring Well

**Name:** Not Calf Ranch

**Other:**

**Address:**

**City:** Chowchilla **State:** CA **Zip:**

**Telephone:** **Fax:**

**Cell/Email:** not ranch@outlook.com

**COPY TO:** labs@fragservices.com
arjordan@fragservices.com krhodes@fragservices.com

**REQUESTED BY:** Case V.

**PROJECT:**

**CROP:**

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

(X) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

| | Description of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 1 | Bypass/Flow | 10/2 | 0920 | -.9 | |
| 2 | | | | | |
| | | | | | |
| 4 | | | | | |
| 5 | IR Thermometer SN: 221314357 Correction Factor: 0°C Calibration Due: 12/22/2023 Location: Laboratory | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | RK | FR Ag | | 10/2 1230 |
| Second | JLF | DLV | 10-3-23 3:05 | 10-3-23 4:30 |
| Third | | | | |
| Fourth | | DCI | 10323 17:15 | |

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through ***cal*** under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:***

Sampling hrs

Consulting

***Shipping***

$ In
$ Out

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[F & R Ag Services Water.xls]Dairy Water rev 2.8.18

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10/03/23 17:15 23J0291

**Shipping Information:** Shipped In ☐ Picked-Up ☑ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

| | Type of Container(s) Received | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| | * pH Value | | | | | | | | | | |
| | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| | * pH Value | | | | | | | | | | |
| | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| | PO4-P Kit | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |
| | **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| | 500 mL glass unpreserved (White) | | | | | | | | | | |
| | 500 mL AG HCl (Blue) | | | | | | | | | | |
| | 1 L AG unpreserved (White) | | | | | | | | | | |
| | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| | Cyanide - 500 mL NaOH | | | | | | | | | | |
| | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| | DO KIT | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |

DRAFT
SENDOUT

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DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Samples in this Report

| Lab ID | Sample | Matrix | Sampled By | Crop | Date Sampled |
|---|---|---|---|---|---|
| 23J0292-01 | Dom 1 | Drinking Water | Case V. | Domestic Well | 10/02/2023 9:00 |

Default Cooler Temperature on Receipt °C: -0.3
Containers Intact
COC/Labels Agree
Received On Ice

## Notes and Definitions

| Item | Definition |
|---|---|
| H | Hold Time Exceeded |
| MCL | Drinking Water Maximum Contaminant Level |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| NES | Not Enough Sample |
| * | Not Taken |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Sample Results

**Sample: Dom 1**
**23J0292-01 (Water)**

Sampled: 10/2/2023 9:00
Sampled By: Case V.

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **89.7** | mg/L | 10.0 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Calcium** | **19.6** | mg/L | 0.1 | 1 | | 10/05/23 11:04 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **30.0** | mg/L | 0.2 | 1 | 250 | 10/03/23 22:01 | EPA 300.0 | | BEJ0070 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Electrical Conductivity** | **0.30** | mmhos/cm | 0.01 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Electrical Conductivity umhos** | **298** | umhos/cm | 10.0 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Bicarbonate as CaCO3** | **89.7** | mg/L | 5.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Potassium** | **0.980** | mg/L | 0.500 | 1 | | 10/05/23 11:04 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **1.9** | mg/L | 0.1 | 1 | | 10/05/23 11:04 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **39** | mg/L | 1 | 1 | | 10/05/23 11:04 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 09:00 | Field | | BEJ0115 |
| **Nitrate Nitrogen as NO3N** | **0.3** | mg/L | 0.1 | 1 | 10 | 10/03/23 22:01 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **pH** | **7.9** | units | 1.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **Sulfate (SO4)** | **5.6** | mg/L | 0.5 | 1 | 250 | 10/03/23 22:01 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **210** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0056*** | | | | | | | | | | |
| **Blank (BEJ0056-BLK1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | ND | | 10.0 | mg/L | | | | | | |
| **LCS (BEJ0056-BS1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 28.8 | | 10.0 | mg/L | 2000 | | 1.44 | 0-200 | | |
| **Duplicate (BEJ0056-DUP1)** | | **Source: 23J0209-01** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 720 | | 10.0 | mg/L | | 720 | | | 0.00 | 10 |
| **Duplicate (BEJ0056-DUP2)** | | **Source: 23J0293-04** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 1120 | | 10.0 | mg/L | | 1160 | | | 3.51 | 10 |
| **Reference (BEJ0056-SRM1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 327 | | | mg/L | 325.0 | | 101 | 90-110 | | |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0070*** | | | | | | | | | | |
| **Blank (BEJ0070-BLK1)** | | | | | Prepared & Analyzed: 10/3/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEJ0070-BLK2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEJ0070-BLK3)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **LCS (BEJ0070-BS1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 4.9 | | 0.2 | mg/L | 5.000 | | 98.0 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.1 | | 0.1 | mg/L | 5.000 | | 101 | 90-110 | | |
| Sulfate (SO4) | 4.8 | | 0.5 | mg/L | 5.000 | | 95.2 | 90-110 | | |
| **LCS (BEJ0070-BS2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 4.8 | | 0.2 | mg/L | 5.000 | | 96.9 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.0 | | 0.1 | mg/L | 5.000 | | 100 | 90-110 | | |
| Sulfate (SO4) | 4.7 | | 0.5 | mg/L | 5.000 | | 93.0 | 90-110 | | |
| **Duplicate (BEJ0070-DUP1)** | | **Source: 23J0292-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 30.1 | | 0.2 | mg/L | | 30.0 | | | 0.403 | 10 |
| Nitrate Nitrogen as NO3N | 0.3 | | 0.1 | mg/L | | 0.3 | | | 1.10 | 10 |
| Sulfate (SO4) | 5.6 | | 0.5 | mg/L | | 5.6 | | | 0.0179 | 10 |
| **Duplicate (BEJ0070-DUP2)** | | **Source: 23J0297-02** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 23.6 | | 0.2 | mg/L | | 23.4 | | | 1.08 | 10 |
| Nitrate Nitrogen as NO3N | 0.06 | | 0.1 | mg/L | | 0.06 | | | 7.02 | 10 |
| Sulfate (SO4) | 19.3 | | 0.5 | mg/L | | 19.1 | | | 1.17 | 10 |
| **Matrix Spike (BEJ0070-MS1)** | | **Source: 23J0292-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 34.9 | | 0.2 | mg/L | 5.000 | 30.0 | 99.1 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.2 | | 0.1 | mg/L | 5.000 | 0.3 | 97.9 | 90-110 | | |
| Sulfate (SO4) | 10.3 | | 0.5 | mg/L | 5.000 | 5.6 | 95.1 | 90-110 | | |
| **Matrix Spike (BEJ0070-MS2)** | | **Source: 23J0297-02** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 28.5 | | 0.2 | mg/L | 5.000 | 23.4 | 102 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.0 | | 0.1 | mg/L | 5.000 | 0.06 | 98.4 | 90-110 | | |
| Sulfate (SO4) | 24.3 | | 0.5 | mg/L | 5.000 | 19.1 | 105 | 90-110 | | |

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Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0070 (Continued)*** | | | | | | | | | | |
| **Reference (BEJ0070-SRM1)** | | | | | Prepared & Analyzed: 10/3/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.3 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.9 | | | mg/L | 10.00 | | 99.0 | 90-110 | | |
| Sulfate (SO4) | 9.5 | | | mg/L | 10.00 | | 94.8 | 90-110 | | |
| **Reference (BEJ0070-SRM2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.4 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.9 | | | mg/L | 10.00 | | 99.2 | 90-110 | | |
| Sulfate (SO4) | 9.5 | | | mg/L | 10.00 | | 95.1 | 90-110 | | |
| **Reference (BEJ0070-SRM3)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 12.4 | | | mg/L | 12.50 | | 99.1 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 10.0 | | | mg/L | 10.00 | | 99.9 | 90-110 | | |
| Sulfate (SO4) | 9.6 | | | mg/L | 10.00 | | 95.8 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0107*** | | | | | | | | | | |
| **Blank (BEJ0107-BLK1)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 5.0 | | 1.0 | units | | | | | | |
| **Blank (BEJ0107-BLK2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 5.5 | | 1.0 | units | | | | | | |
| **Blank (BEJ0107-BLK3)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 5.4 | | 1.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| **Duplicate (BEJ0107-DUP1)** | | **Source: 23J0193-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Alkalinity as CaCO3 | 221 | | 10.0 | mg/L | | 221 | | | 0.394 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Electrical Conductivity | 0.59 | | 0.01 | mmhos/cm | | 0.60 | | | 1.27 | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| pH | 8.0 | | 1.0 | units | | 8.0 | | | 0.499 | 10 |
| Electrical Conductivity umhos | 594 | | 10.0 | umhos/cm | | 602 | | | 1.27 | 10 |
| **Duplicate (BEJ0107-DUP2)** | | **Source: 23J0279-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Electrical Conductivity | 0.33 | | 0.01 | mmhos/cm | | 0.33 | | | 1.94 | 10 |
| Alkalinity as CaCO3 | 110 | | 10.0 | mg/L | | 108 | | | 1.94 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Electrical Conductivity umhos | 333 | | 10.0 | umhos/cm | | 326 | | | 1.94 | 10 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0107 (Continued)*** | | | | | | | | | | |
| **Duplicate (BEJ0107-DUP2)** | | | **Source: 23J0279-01** | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 8.1 | | 1.0 | units | | 8.1 | | | 0.369 | 10 |
| **Reference (BEJ0107-SRM1)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Electrical Conductivity | 578 | | | umhos/cm | 538.0 | | 107 | 90-110 | | |
| Alkalinity as CaCO3 | 39.1 | | | mg/L | 40.60 | | 96.3 | 90-110 | | |
| **Reference (BEJ0107-SRM2)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Alkalinity as CaCO3 | 40.1 | | | mg/L | 40.60 | | 98.7 | 90-110 | | |
| Electrical Conductivity | 580 | | | umhos/cm | 538.0 | | 108 | 90-110 | | |
| **Reference (BEJ0107-SRM3)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Alkalinity as CaCO3 | 39.2 | | | mg/L | 40.60 | | 96.6 | 90-110 | | |
| Electrical Conductivity | 572 | | | umhos/cm | 538.0 | | 106 | 90-110 | | |
| **Reference (BEJ0107-SRM4)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0107-SRM5)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0107-SRM6)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0107-SRM7)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 5.9 | | | units | 5.820 | | 101 | 28178-101.71 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0110*** | | | | | | | | | | |
| **Blank (BEJ0110-BLK1)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEJ0110-BLK2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEJ0110-BS1)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 39.0 | | 0.500 | mg/L | 35.71 | | 109 | 90-110 | | |
| Sodium | 39 | | 1 | mg/L | 35.71 | | 109 | 90-110 | | |
| Calcium | 37.1 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| Magnesium | 37.3 | | 0.1 | mg/L | 35.71 | | 105 | 90-110 | | |
| **LCS (BEJ0110-BS2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 38.3 | | 0.500 | mg/L | 35.71 | | 107 | 90-110 | | |
| Calcium | 36.9 | | 0.1 | mg/L | 35.71 | | 103 | 90-110 | | |
| Sodium | 38 | | 1 | mg/L | 35.71 | | 108 | 90-110 | | |
| Magnesium | 37.2 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| **Duplicate (BEJ0110-DUP1)** | | **Source: 23J0171-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 49 | | 1 | mg/L | | 51 | | | 4.60 | 15 |
| Potassium | 7.06 | | 0.500 | mg/L | | 7.68 | | | 8.39 | 15 |
| Calcium | 58.2 | | 0.1 | mg/L | | 60.8 | | | 4.49 | 15 |
| Magnesium | 19.4 | | 0.1 | mg/L | | 20.2 | | | 4.00 | 15 |
| **Matrix Spike (BEJ0110-MS1)** | | **Source: 23J0171-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Calcium | 97.7 | | 0.1 | mg/L | 35.71 | 60.8 | 103 | 90-110 | | |
| Sodium | 89 | | 1 | mg/L | 35.71 | 51 | 106 | 90-110 | | |
| Potassium | 46.4 | | 0.500 | mg/L | 35.71 | 7.68 | 108 | 90-110 | | |
| Magnesium | 58.0 | | 0.1 | mg/L | 35.71 | 20.2 | 106 | 90-110 | | |
| **Matrix Spike (BEJ0110-MS2)** | | **Source: 23J0293-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 40.3 | | 0.500 | mg/L | 35.71 | 1.84 | 108 | 90-110 | | |
| Calcium | 83.7 | | 0.1 | mg/L | 35.71 | 46.1 | 105 | 90-110 | | |
| Sodium | 104 | | 1 | mg/L | 35.71 | 65 | 108 | 90-110 | | |
| Magnesium | 44.2 | | 0.1 | mg/L | 35.71 | 6.8 | 105 | 90-110 | | |
| **Reference (BEJ0110-SRM2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 22.5 | | | mg/L | 21.90 | | 103 | 90-110 | | |

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Account# 00-0022212
Account Manager: Ben Nydam
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Received: 10/03/2023 17:15
Reported: 10/06/2023 09:45

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0110 (Continued)*** | | | | | | | | | | |
| **Reference (BEJ0110-SRM2)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Sodium | 93 | | | mg/L | 91.50 | | 102 | 90-110 | | |
| **Reference (BEJ0110-SRM3)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Calcium | 46.1 | | | mg/L | 45.90 | | 100 | 90-110 | | |
| Magnesium | 36.2 | | | mg/L | 35.60 | | 102 | 90-110 | | |

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10/03/23 17:15 23J0292

# DELLAVALLE LABORATORY, INC.

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

No. Samples: 1 No of Bottles: 1

Purchase Order No

Bill To: Acct # 22212 Cons # 8 DDS 10/3/23

Results Need By

**Name:** Vlot Calf Ranch

**Address:**

**City:** Chowchilla **State:** CA **Zip:**

**Telephone:** **Fax:**

**Cell/Email:** vlotranch@outlook.com

**COPY TO:** labs@fragservices.com

ariordan@fragservices.com krhodes@fragservices.com

**REQUESTED BY:** Case V.

**PROJECT:**

**CROP:** Domestic Well

[X] Copy of Chain [X] QA/QC Documents

Sampled By: Case V.

**Water Type:** [X] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

**Other:**

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample

(X) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

| | Description of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 1 | Dom 1 | 10/2 | 0900 | -.3 | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | | FR Ag | | 10/3 1230 |
| Second | JCR | DLV | 10-3-23 3:03 | 10-3-23 4:30 |
| Third | | | | |
| Fourth | | DLI | 10.3.23 17:15 | |

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through ***cal*** under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:*** ***Shipping***

Sampling hrs $ In
Miles $ Out
Consulting

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

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10/03/23 17:15 23J0292

**Shipping Information:** Shipped In ☐ Picked-Up ☑ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

| | Type of Container(s) Received | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| | * pH Value | | | | | | | | | | |
| | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| | * pH Value | | | | | | | | | | |
| | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (White) Plastic | 1 | | | | | | | | | |
| | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| | PO4-P Kit | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |
| | **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| | 500 mL glass unpreserved (White) | | | | | | | | | | |
| | 500 mL AG HCl (Blue) | | | | | | | | | | |
| | 1 L AG unpreserved (White) | | | | | | | | | | |
| | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| | Cyanide - 500 mL NaOH | | | | | | | | | | |
| | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| | DO KIT | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |

SEND OUT

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DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Samples in this Report

| Lab ID | Sample | Matrix | Sampled By | Crop | Date Sampled |
|---|---|---|---|---|---|
| 23J0293-01 | DW 2 | Ag Water | | Irrigation Wells | 10/02/2023 8:00 |
| 23J0293-02 | DW 3 | Ag Water | | Irrigation Wells | 10/02/2023 8:10 |
| 23J0293-03 | DW 8 | Ag Water | | Irrigation Wells | 10/02/2023 8:05 |
| 23J0293-04 | DW 9 | Ag Water | | Irrigation Wells | 10/02/2023 8:15 |
| 23J0293-05 | DW 11 | Ag Water | | Irrigation Wells | 10/02/2023 8:20 |
| 23J0293-06 | DW 18 | Ag Water | | Irrigation Wells | 10/02/2023 8:16 |
| 23J0293-07 | DW 16 | Ag Water | | Irrigation Wells | 10/02/2023 8:25 |
| 23J0293-08 | DW 19 | Ag Water | | Irrigation Wells | 10/02/2023 8:30 |
| 23J0293-09 | DW 20 | Ag Water | | Irrigation Wells | 10/02/2023 8:35 |
| 23J0293-10 | DW 21 | Ag Water | | Irrigation Wells | 10/02/2023 8:40 |

Default Cooler Temperature on Receipt °C: -0.4

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

## Notes and Definitions

| Item | Definition |
|---|---|
| H | Hold Time Exceeded |
| MCL | Drinking Water Maximum Contaminant Level |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| NES | Not Enough Sample |
| * | Not Taken |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results

**Sample: DW 2**
**23J0293-01 (Water)**

Sampled: 10/2/2023 8:00
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **96.0** | mg/L | 10.0 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Calcium** | **46.1** | mg/L | 0.1 | 1 | | 10/05/23 11:05 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **127** | mg/L | 0.2 | 1 | 250 | 10/04/23 19:57 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Electrical Conductivity** | **0.66** | mmhos/cm | 0.01 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Electrical Conductivity umhos** | **657** | umhos/cm | 10.0 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Bicarbonate as CaCO3** | **96.0** | mg/L | 5.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Potassium** | **1.84** | mg/L | 0.500 | 1 | | 10/05/23 11:05 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **6.8** | mg/L | 0.1 | 1 | | 10/05/23 11:05 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **65** | mg/L | 1 | 1 | | 10/05/23 11:05 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:00 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **0.8** | mg/L | 0.1 | 1 | 10 | 10/03/23 22:21 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **pH** | **7.8** | units | 1.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **Sulfate (SO4)** | **9.8** | mg/L | 0.5 | 1 | 250 | 10/03/23 22:21 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **425** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:34 | SM 4500-NH3 C | | BEJ0126 |
| Total Nitrogen | ND | mg/L | 1.00 | 1 | | 10/05/23 11:34 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 3**
**23J0293-02 (Water)**

Sampled: 10/2/2023 8:10
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **216** | mg/L | 10.0 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Calcium** | **664** | mg/L | 0.1 | 1 | | 10/05/23 11:06 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **2170** | mg/L | 0.2 | 1 | 250 | 10/04/23 20:17 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Electrical Conductivity** | **7.64** | mmhos/cm | 0.01 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Electrical Conductivity umhos** | **7640** | umhos/cm | 10.0 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Bicarbonate as CaCO3** | **216** | mg/L | 5.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Potassium** | **13.0** | mg/L | 0.500 | 1 | | 10/05/23 11:06 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **120** | mg/L | 0.1 | 1 | | 10/05/23 11:06 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **482** | mg/L | 1 | 1 | | 10/05/23 11:06 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:10 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **15.8** | mg/L | 0.1 | 1 | 10 | 10/03/23 22:41 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **pH** | **7.3** | units | 1.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **Sulfate (SO4)** | **33.1** | mg/L | 0.5 | 1 | 250 | 10/03/23 22:41 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **6050** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:35 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **15.8** | mg/L | 1.00 | 1 | | 10/05/23 11:35 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 8**
**23J0293-03 (Water)**

Sampled: 10/2/2023 8:05
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **172** | mg/L | 10.0 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Calcium** | **86.0** | mg/L | 0.1 | 1 | | 10/05/23 11:07 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **149** | mg/L | 0.2 | 1 | 250 | 10/03/23 23:00 | EPA 300.0 | | BEJ0070 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Electrical Conductivity** | **0.99** | mmhos/cm | 0.01 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Electrical Conductivity umhos** | **993** | umhos/cm | 10.0 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Bicarbonate as CaCO3** | **172** | mg/L | 5.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Potassium** | **2.75** | mg/L | 0.500 | 1 | | 10/05/23 11:07 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **21.4** | mg/L | 0.1 | 1 | | 10/05/23 11:07 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **73** | mg/L | 1 | 1 | | 10/05/23 11:07 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:05 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **2.9** | mg/L | 0.1 | 1 | 10 | 10/03/23 23:00 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **pH** | **7.7** | units | 1.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **Sulfate (SO4)** | **58.4** | mg/L | 0.5 | 1 | 250 | 10/03/23 23:00 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **640** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:36 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **3.02** | mg/L | 1.00 | 1 | | 10/05/23 11:36 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 9**
**23J0293-04 (Water)**

Sampled: 10/2/2023 8:15
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **212** | mg/L | 10.0 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Calcium** | **139** | mg/L | 0.1 | 1 | | 10/05/23 11:08 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **318** | mg/L | 0.2 | 1 | 250 | 10/04/23 20:36 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Electrical Conductivity** | **1.61** | mmhos/cm | 0.01 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Electrical Conductivity umhos** | **1610** | umhos/cm | 10.0 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Bicarbonate as CaCO3** | **212** | mg/L | 5.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Potassium** | **4.07** | mg/L | 0.500 | 1 | | 10/05/23 11:08 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **36.9** | mg/L | 0.1 | 1 | | 10/05/23 11:08 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **107** | mg/L | 1 | 1 | | 10/05/23 11:08 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:15 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **5.4** | mg/L | 0.1 | 1 | 10 | 10/03/23 23:20 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **pH** | **7.6** | units | 1.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **Sulfate (SO4)** | **51.5** | mg/L | 0.5 | 1 | 250 | 10/03/23 23:20 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **1160** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:38 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **5.84** | mg/L | 1.00 | 1 | | 10/05/23 11:38 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 11**
**23J0293-05 (Water)**

Sampled: 10/2/2023 8:20
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **164** | mg/L | 10.0 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Calcium** | **98.7** | mg/L | 0.1 | 1 | | 10/05/23 11:10 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **277** | mg/L | 0.2 | 1 | 250 | 10/04/23 20:56 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Electrical Conductivity** | **1.43** | mmhos/cm | 0.01 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Electrical Conductivity umhos** | **1430** | umhos/cm | 10.0 | 1 | | 10/05/23 09:01 | SM 2510 B | | BEJ0107 |
| **Bicarbonate as CaCO3** | **164** | mg/L | 5.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Potassium** | **3.18** | mg/L | 0.500 | 1 | | 10/05/23 11:10 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **26.0** | mg/L | 0.1 | 1 | | 10/05/23 11:10 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **126** | mg/L | 1 | 1 | | 10/05/23 11:10 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:20 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **6.3** | mg/L | 0.1 | 1 | 10 | 10/03/23 23:40 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 09:01 | SM 2320 B | | BEJ0107 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **pH** | **7.7** | units | 1.0 | 1 | | 10/05/23 09:01 | SM 4500-H+ | H | BEJ0107 |
| **Sulfate (SO4)** | **56.4** | mg/L | 0.5 | 1 | 250 | 10/03/23 23:40 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **920** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:39 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **6.34** | mg/L | 1.00 | 1 | | 10/05/23 11:39 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 18**
**23J0293-06 (Water)**

Sampled: 10/2/2023 8:16
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **232** | mg/L | 10.0 | 1 | | 10/05/23 11:43 | SM 2320 B | | BEJ0188 |
| **Calcium** | **112** | mg/L | 0.1 | 1 | | 10/05/23 11:11 | EPA 200.7 | | BEJ0110 |
| **Chloride** | **268** | mg/L | 0.2 | 1 | 250 | 10/04/23 21:16 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 11:43 | SM 2320 B | | BEJ0188 |
| **Electrical Conductivity** | **1.52** | mmhos/cm | 0.01 | 1 | | 10/05/23 11:43 | SM 2510 B | | BEJ0188 |
| **Electrical Conductivity umhos** | **1520** | umhos/cm | 10.0 | 1 | | 10/05/23 11:43 | SM 2510 B | | BEJ0188 |
| **Bicarbonate as CaCO3** | **232** | mg/L | 5.00 | 1 | | 10/05/23 11:43 | SM 2320 B | | BEJ0188 |
| **Potassium** | **4.73** | mg/L | 0.500 | 1 | | 10/05/23 11:11 | EPA 200.7 | | BEJ0110 |
| **Magnesium** | **24.8** | mg/L | 0.1 | 1 | | 10/05/23 11:11 | EPA 200.7 | | BEJ0110 |
| **Sodium** | **138** | mg/L | 1 | 1 | | 10/05/23 11:11 | EPA 200.7 | | BEJ0110 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:16 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **6.3** | mg/L | 0.1 | 1 | 10 | 10/04/23 00:00 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 11:43 | SM 2320 B | | BEJ0188 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 11:43 | SM 4500-H+ | H | BEJ0188 |
| **pH** | **7.6** | units | 1.0 | 1 | | 10/05/23 11:43 | SM 4500-H+ | H | BEJ0188 |
| **Sulfate (SO4)** | **73.2** | mg/L | 0.5 | 1 | 250 | 10/04/23 00:00 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **930** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:49 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **6.35** | mg/L | 1.00 | 1 | | 10/05/23 11:49 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 16**
**23J0293-07 (Water)**

Sampled: 10/2/2023 8:25
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **182** | mg/L | 10.0 | 1 | | 10/05/23 11:49 | SM 2320 B | | BEJ0188 |
| **Calcium** | **106** | mg/L | 0.1 | 1 | | 10/05/23 12:00 | EPA 200.7 | | BEJ0144 |
| **Chloride** | **226** | mg/L | 0.2 | 1 | 250 | 10/04/23 21:35 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 11:49 | SM 2320 B | | BEJ0188 |
| **Electrical Conductivity** | **1.28** | mmhos/cm | 0.01 | 1 | | 10/05/23 11:49 | SM 2510 B | | BEJ0188 |
| **Electrical Conductivity umhos** | **1280** | umhos/cm | 10.0 | 1 | | 10/05/23 11:49 | SM 2510 B | | BEJ0188 |
| **Bicarbonate as CaCO3** | **182** | mg/L | 5.00 | 1 | | 10/05/23 11:49 | SM 2320 B | | BEJ0188 |
| **Potassium** | **4.25** | mg/L | 0.500 | 1 | | 10/05/23 12:00 | EPA 200.7 | | BEJ0144 |
| **Magnesium** | **25.8** | mg/L | 0.1 | 1 | | 10/05/23 12:00 | EPA 200.7 | | BEJ0144 |
| **Sodium** | **97** | mg/L | 1 | 1 | | 10/05/23 12:00 | EPA 200.7 | | BEJ0144 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:25 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **4.7** | mg/L | 0.1 | 1 | 10 | 10/04/23 00:19 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 11:49 | SM 2320 B | | BEJ0188 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 11:49 | SM 4500-H+ | H | BEJ0188 |
| **pH** | **7.7** | units | 1.0 | 1 | | 10/05/23 11:49 | SM 4500-H+ | H | BEJ0188 |
| **Sulfate (SO4)** | **66.1** | mg/L | 0.5 | 1 | 250 | 10/04/23 00:19 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **830** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:50 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **4.88** | mg/L | 1.00 | 1 | | 10/05/23 11:50 | SM 4500-NH3 C | | BEJ0126 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 19**
**23J0293-08 (Water)**

Sampled: 10/2/2023 8:30
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **159** | mg/L | 10.0 | 1 | | 10/05/23 11:55 | SM 2320 B | | BEJ0188 |
| **Calcium** | **67.6** | mg/L | 0.1 | 1 | | 10/05/23 12:02 | EPA 200.7 | | BEJ0144 |
| **Chloride** | **147** | mg/L | 0.2 | 1 | 250 | 10/04/23 00:39 | EPA 300.0 | | BEJ0070 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 11:55 | SM 2320 B | | BEJ0188 |
| **Electrical Conductivity** | **0.97** | mmhos/cm | 0.01 | 1 | | 10/05/23 11:55 | SM 2510 B | | BEJ0188 |
| **Electrical Conductivity umhos** | **974** | umhos/cm | 10.0 | 1 | | 10/05/23 11:55 | SM 2510 B | | BEJ0188 |
| **Bicarbonate as CaCO3** | **159** | mg/L | 5.00 | 1 | | 10/05/23 11:55 | SM 2320 B | | BEJ0188 |
| **Potassium** | **4.45** | mg/L | 0.500 | 1 | | 10/05/23 12:02 | EPA 200.7 | | BEJ0144 |
| **Magnesium** | **16.4** | mg/L | 0.1 | 1 | | 10/05/23 12:02 | EPA 200.7 | | BEJ0144 |
| **Sodium** | **90** | mg/L | 1 | 1 | | 10/05/23 12:02 | EPA 200.7 | | BEJ0144 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:30 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **3.6** | mg/L | 0.1 | 1 | 10 | 10/04/23 00:39 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 11:55 | SM 2320 B | | BEJ0188 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 11:55 | SM 4500-H+ | H | BEJ0188 |
| **pH** | **7.8** | units | 1.0 | 1 | | 10/05/23 11:55 | SM 4500-H+ | H | BEJ0188 |
| **Sulfate (SO4)** | **66.6** | mg/L | 0.5 | 1 | 250 | 10/04/23 00:39 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **600** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:52 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **3.86** | mg/L | 1.00 | 1 | | 10/05/23 11:52 | SM 4500-NH3 C | | BEJ0126 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

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## Sample Results
**(Continued)**

**Sample: DW 20**
**23J0293-09 (Water)**

Sampled: 10/2/2023 8:35
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **251** | mg/L | 10.0 | 1 | | 10/05/23 12:00 | SM 2320 B | | BEJ0188 |
| **Calcium** | **112** | mg/L | 0.1 | 1 | | 10/05/23 12:03 | EPA 200.7 | | BEJ0144 |
| **Chloride** | **335** | mg/L | 0.2 | 1 | 250 | 10/04/23 21:55 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 12:00 | SM 2320 B | | BEJ0188 |
| **Electrical Conductivity** | **1.79** | mmhos/cm | 0.01 | 1 | | 10/05/23 12:00 | SM 2510 B | | BEJ0188 |
| **Electrical Conductivity umhos** | **1790** | umhos/cm | 10.0 | 1 | | 10/05/23 12:00 | SM 2510 B | | BEJ0188 |
| **Bicarbonate as CaCO3** | **251** | mg/L | 5.00 | 1 | | 10/05/23 12:00 | SM 2320 B | | BEJ0188 |
| **Potassium** | **6.27** | mg/L | 0.500 | 1 | | 10/05/23 12:03 | EPA 200.7 | | BEJ0144 |
| **Magnesium** | **25.5** | mg/L | 0.1 | 1 | | 10/05/23 12:03 | EPA 200.7 | | BEJ0144 |
| **Sodium** | **188** | mg/L | 1 | 1 | | 10/05/23 12:03 | EPA 200.7 | | BEJ0144 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:35 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **7.3** | mg/L | 0.1 | 1 | 10 | 10/04/23 00:59 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 12:00 | SM 2320 B | | BEJ0188 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 12:00 | SM 4500-H+ | H | BEJ0188 |
| **pH** | **7.8** | units | 1.0 | 1 | | 10/05/23 12:00 | SM 4500-H+ | H | BEJ0188 |
| **Sulfate (SO4)** | **84.4** | mg/L | 0.5 | 1 | 250 | 10/04/23 00:59 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **1050** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:53 | SM 4500-NH3 C | | BEJ0126 |
| **Total Nitrogen** | **7.32** | mg/L | 1.00 | 1 | | 10/05/23 11:53 | SM 4500-NH3 C | | BEJ0126 |

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Submitted By:

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Reported: 10/06/2023 09:49

## Sample Results
**(Continued)**

**Sample: DW 21**
**23J0293-10 (Water)**

Sampled: 10/2/2023 8:40
Sampled By:

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Alkalinity as CaCO3** | **98.7** | mg/L | 10.0 | 1 | | 10/05/23 12:06 | SM 2320 B | | BEJ0188 |
| **Calcium** | **25.5** | mg/L | 0.1 | 1 | | 10/05/23 12:04 | EPA 200.7 | | BEJ0144 |
| **Chloride** | **64.8** | mg/L | 0.2 | 1 | 250 | 10/04/23 22:15 | EPA 300.0 | | BEJ0147 |
| Carbonate as CaCO3 | ND | mg/L | 1 | 1 | | 10/05/23 12:06 | SM 2320 B | | BEJ0188 |
| **Electrical Conductivity** | **0.47** | mmhos/cm | 0.01 | 1 | | 10/05/23 12:06 | SM 2510 B | | BEJ0188 |
| **Electrical Conductivity umhos** | **470** | umhos/cm | 10.0 | 1 | | 10/05/23 12:06 | SM 2510 B | | BEJ0188 |
| **Bicarbonate as CaCO3** | **98.7** | mg/L | 5.00 | 1 | | 10/05/23 12:06 | SM 2320 B | | BEJ0188 |
| **Potassium** | **1.55** | mg/L | 0.500 | 1 | | 10/05/23 12:04 | EPA 200.7 | | BEJ0144 |
| **Magnesium** | **3.7** | mg/L | 0.1 | 1 | | 10/05/23 12:04 | EPA 200.7 | | BEJ0144 |
| **Sodium** | **59** | mg/L | 1 | 1 | | 10/05/23 12:04 | EPA 200.7 | | BEJ0144 |
| Ammonia (as N) | * | mg/L | 0.00 | 1 | | 10/02/23 08:40 | Field | | BEJ0116 |
| **Nitrate Nitrogen as NO3N** | **0.7** | mg/L | 0.1 | 1 | 10 | 10/04/23 03:38 | EPA 300.0 | | BEJ0070 |
| Hydroxide as CaCO3 | ND | mg/L | 1.00 | 1 | | 10/05/23 12:06 | SM 2320 B | | BEJ0188 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 10/05/23 12:06 | SM 4500-H+ | H | BEJ0188 |
| **pH** | **8.0** | units | 1.0 | 1 | | 10/05/23 12:06 | SM 4500-H+ | H | BEJ0188 |
| **Sulfate (SO4)** | **18.0** | mg/L | 0.5 | 1 | 250 | 10/04/23 03:38 | EPA 300.0 | | BEJ0070 |
| **Total Filterable Solids (TDS)** | **305** | mg/L | 10.0 | 1 | | 10/05/23 15:14 | SM 2540 C | | BEJ0056 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 10/05/23 11:55 | SM 4500-NH3 C | | BEJ0126 |
| Total Nitrogen | ND | mg/L | 1.00 | 1 | | 10/05/23 11:55 | SM 4500-NH3 C | | BEJ0126 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Quality Control

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0056*** | | | | | | | | | | |
| **Blank (BEJ0056-BLK1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | ND | | 10.0 | mg/L | | | | | | |
| **LCS (BEJ0056-BS1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 28.8 | | 10.0 | mg/L | 2000 | | 1.44 | 0-200 | | |
| **Duplicate (BEJ0056-DUP1)** | | **Source: 23J0209-01** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 720 | | 10.0 | mg/L | | 720 | | | 0.00 | 10 |
| **Duplicate (BEJ0056-DUP2)** | | **Source: 23J0293-04** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 1120 | | 10.0 | mg/L | | 1160 | | | 3.51 | 10 |
| **Reference (BEJ0056-SRM1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Total Filterable Solids (TDS) | 327 | | | mg/L | 325.0 | | 101 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0070*** | | | | | | | | | | |
| **Blank (BEJ0070-BLK1)** | | | | | Prepared & Analyzed: 10/3/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEJ0070-BLK2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **Blank (BEJ0070-BLK3)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| Sulfate (SO4) | ND | | 0.5 | mg/L | | | | | | |
| **LCS (BEJ0070-BS1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 4.9 | | 0.2 | mg/L | 5.000 | | 98.0 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.1 | | 0.1 | mg/L | 5.000 | | 101 | 90-110 | | |
| Sulfate (SO4) | 4.8 | | 0.5 | mg/L | 5.000 | | 95.2 | 90-110 | | |
| **LCS (BEJ0070-BS2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 4.8 | | 0.2 | mg/L | 5.000 | | 96.9 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.0 | | 0.1 | mg/L | 5.000 | | 100 | 90-110 | | |
| Sulfate (SO4) | 4.7 | | 0.5 | mg/L | 5.000 | | 93.0 | 90-110 | | |
| **Duplicate (BEJ0070-DUP1)** | | **Source: 23J0292-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 30.1 | | 0.2 | mg/L | | 30.0 | | | 0.403 | 10 |
| Nitrate Nitrogen as NO3N | 0.3 | | 0.1 | mg/L | | 0.3 | | | 1.10 | 10 |
| Sulfate (SO4) | 5.6 | | 0.5 | mg/L | | 5.6 | | | 0.0179 | 10 |
| **Duplicate (BEJ0070-DUP2)** | | **Source: 23J0297-02** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 23.6 | | 0.2 | mg/L | | 23.4 | | | 1.08 | 10 |
| Nitrate Nitrogen as NO3N | 0.06 | | 0.1 | mg/L | | 0.06 | | | 7.02 | 10 |
| Sulfate (SO4) | 19.3 | | 0.5 | mg/L | | 19.1 | | | 1.17 | 10 |
| **Matrix Spike (BEJ0070-MS1)** | | **Source: 23J0292-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 34.9 | | 0.2 | mg/L | 5.000 | 30.0 | 99.1 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.2 | | 0.1 | mg/L | 5.000 | 0.3 | 97.9 | 90-110 | | |
| Sulfate (SO4) | 10.3 | | 0.5 | mg/L | 5.000 | 5.6 | 95.1 | 90-110 | | |
| **Matrix Spike (BEJ0070-MS2)** | | **Source: 23J0297-02** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 28.5 | | 0.2 | mg/L | 5.000 | 23.4 | 102 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 5.0 | | 0.1 | mg/L | 5.000 | 0.06 | 98.4 | 90-110 | | |
| Sulfate (SO4) | 24.3 | | 0.5 | mg/L | 5.000 | 19.1 | 105 | 90-110 | | |

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Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0070 (Continued)*** | | | | | | | | | | |
| **Reference (BEJ0070-SRM1)** | | | | | Prepared & Analyzed: 10/3/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.3 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.9 | | | mg/L | 10.00 | | 99.0 | 90-110 | | |
| Sulfate (SO4) | 9.5 | | | mg/L | 10.00 | | 94.8 | 90-110 | | |
| **Reference (BEJ0070-SRM2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.4 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 9.9 | | | mg/L | 10.00 | | 99.2 | 90-110 | | |
| Sulfate (SO4) | 9.5 | | | mg/L | 10.00 | | 95.1 | 90-110 | | |
| **Reference (BEJ0070-SRM3)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 12.4 | | | mg/L | 12.50 | | 99.1 | 90-110 | | |
| Nitrate Nitrogen as NO3N | 10.0 | | | mg/L | 10.00 | | 99.9 | 90-110 | | |
| Sulfate (SO4) | 9.6 | | | mg/L | 10.00 | | 95.8 | 90-110 | | |

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Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0107*** | | | | | | | | | | |
| **Blank (BEJ0107-BLK1)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 5.0 | | 1.0 | units | | | | | | |
| **Blank (BEJ0107-BLK2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 5.5 | | 1.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| **Blank (BEJ0107-BLK3)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| pH | 5.4 | | 1.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Duplicate (BEJ0107-DUP1)** | | **Source: 23J0193-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 0.59 | | 0.01 | mmhos/cm | | 0.60 | | | 1.27 | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Alkalinity as CaCO3 | 221 | | 10.0 | mg/L | | 221 | | | 0.394 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Electrical Conductivity umhos | 594 | | 10.0 | umhos/cm | | 602 | | | 1.27 | 10 |
| pH | 8.0 | | 1.0 | units | | 8.0 | | | 0.499 | 10 |
| **Duplicate (BEJ0107-DUP2)** | | **Source: 23J0279-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Alkalinity as CaCO3 | 110 | | 10.0 | mg/L | | 108 | | | 1.94 | 10 |
| Electrical Conductivity | 0.33 | | 0.01 | mmhos/cm | | 0.33 | | | 1.94 | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| pH | 8.1 | | 1.0 | units | | 8.1 | | | 0.369 | 10 |

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Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0107 (Continued)*** | | | | | | | | | | |
| **Duplicate (BEJ0107-DUP2)** | | | **Source: 23J0279-01** | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Electrical Conductivity umhos | 333 | | 10.0 | umhos/cm | | 326 | | | 1.94 | 10 |
| **Reference (BEJ0107-SRM1)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Electrical Conductivity | 578 | | | umhos/cm | 538.0 | | 107 | 90-110 | | |
| Alkalinity as CaCO3 | 39.1 | | | mg/L | 40.60 | | 96.3 | 90-110 | | |
| **Reference (BEJ0107-SRM2)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Electrical Conductivity | 580 | | | umhos/cm | 538.0 | | 108 | 90-110 | | |
| Alkalinity as CaCO3 | 40.1 | | | mg/L | 40.60 | | 98.7 | 90-110 | | |
| **Reference (BEJ0107-SRM3)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Alkalinity as CaCO3 | 39.2 | | | mg/L | 40.60 | | 96.6 | 90-110 | | |
| Electrical Conductivity | 572 | | | umhos/cm | 538.0 | | 106 | 90-110 | | |
| **Reference (BEJ0107-SRM4)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0107-SRM5)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0107-SRM6)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0107-SRM7)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| pH | 5.9 | | | units | 5.820 | | 101 | 28178-101.71 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0110*** | | | | | | | | | | |
| **Blank (BEJ0110-BLK1)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEJ0110-BLK2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEJ0110-BS1)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 39.0 | | 0.500 | mg/L | 35.71 | | 109 | 90-110 | | |
| Sodium | 39 | | 1 | mg/L | 35.71 | | 109 | 90-110 | | |
| Calcium | 37.1 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| Magnesium | 37.3 | | 0.1 | mg/L | 35.71 | | 105 | 90-110 | | |
| **LCS (BEJ0110-BS2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 38.3 | | 0.500 | mg/L | 35.71 | | 107 | 90-110 | | |
| Calcium | 36.9 | | 0.1 | mg/L | 35.71 | | 103 | 90-110 | | |
| Sodium | 38 | | 1 | mg/L | 35.71 | | 108 | 90-110 | | |
| Magnesium | 37.2 | | 0.1 | mg/L | 35.71 | | 104 | 90-110 | | |
| **Duplicate (BEJ0110-DUP1)** | | **Source: 23J0171-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 49 | | 1 | mg/L | | 51 | | | 4.60 | 15 |
| Potassium | 7.06 | | 0.500 | mg/L | | 7.68 | | | 8.39 | 15 |
| Calcium | 58.2 | | 0.1 | mg/L | | 60.8 | | | 4.49 | 15 |
| Magnesium | 19.4 | | 0.1 | mg/L | | 20.2 | | | 4.00 | 15 |
| **Matrix Spike (BEJ0110-MS1)** | | **Source: 23J0171-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 46.4 | | 0.500 | mg/L | 35.71 | 7.68 | 108 | 90-110 | | |
| Calcium | 97.7 | | 0.1 | mg/L | 35.71 | 60.8 | 103 | 90-110 | | |
| Sodium | 89 | | 1 | mg/L | 35.71 | 51 | 106 | 90-110 | | |
| Magnesium | 58.0 | | 0.1 | mg/L | 35.71 | 20.2 | 106 | 90-110 | | |
| **Matrix Spike (BEJ0110-MS2)** | | **Source: 23J0293-01** | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 104 | | 1 | mg/L | 35.71 | 65 | 108 | 90-110 | | |
| Calcium | 83.7 | | 0.1 | mg/L | 35.71 | 46.1 | 105 | 90-110 | | |
| Potassium | 40.3 | | 0.500 | mg/L | 35.71 | 1.84 | 108 | 90-110 | | |
| Magnesium | 44.2 | | 0.1 | mg/L | 35.71 | 6.8 | 105 | 90-110 | | |
| **Reference (BEJ0110-SRM2)** | | | | | Prepared: 10/3/2023 Analyzed: 10/5/2023 | | | | | |
| Potassium | 22.5 | | | mg/L | 21.90 | | 103 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0110 (Continued)*** | | | | | | | | | | |
| **Reference (BEJ0110-SRM2)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Sodium | 93 | | | mg/L | 91.50 | | 102 | 90-110 | | |
| **Reference (BEJ0110-SRM3)** | | | | | Prepared: 10/3/2023 | Analyzed: 10/5/2023 | | | | |
| Calcium | 46.1 | | | mg/L | 45.90 | | 100 | 90-110 | | |
| Magnesium | 36.2 | | | mg/L | 35.60 | | 102 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0126*** | | | | | | | | | | |
| **Blank (BEJ0126-BLK1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEJ0126-BLK2)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **LCS (BEJ0126-BS1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.81 | | 1.00 | mg/L | 5.709 | | 102 | 90-110 | | |
| **LCS (BEJ0126-BS2)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.88 | | 1.00 | mg/L | 5.709 | | 103 | 90-110 | | |
| **Duplicate (BEJ0126-DUP1)** | | **Source: 23J0293-02** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Duplicate (BEJ0126-DUP2)** | | **Source: 23J0293-07** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Matrix Spike (BEJ0126-MS1)** | | **Source: 23J0293-02** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 8.02 | | 1.40 | mg/L | 7.992 | ND | 100 | 90-110 | | |
| **Matrix Spike (BEJ0126-MS2)** | | **Source: 23J0293-07** | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 7.94 | | 1.40 | mg/L | 7.992 | ND | 99.4 | 90-110 | | |
| **Reference (BEJ0126-SRM1)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 24.2 | | | mg/L | 23.80 | | 102 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0144*** | | | | | | | | | | |
| **Blank (BEJ0144-BLK1)** | | | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEJ0144-BLK2)** | | | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Calcium | ND | | 0.1 | mg/L | | | | | | |
| Sodium | ND | | 1 | mg/L | | | | | | |
| Potassium | ND | | 0.500 | mg/L | | | | | | |
| Magnesium | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEJ0144-BS1)** | | | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 38 | | 1 | mg/L | 35.71 | | 106 | 90-110 | | |
| Potassium | 37.8 | | 0.500 | mg/L | 35.71 | | 106 | 90-110 | | |
| Calcium | 36.1 | | 0.1 | mg/L | 35.71 | | 101 | 90-110 | | |
| Magnesium | 36.5 | | 0.1 | mg/L | 35.71 | | 102 | 90-110 | | |
| **LCS (BEJ0144-BS2)** | | | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 37 | | 1 | mg/L | 35.71 | | 103 | 90-110 | | |
| Potassium | 36.4 | | 0.500 | mg/L | 35.71 | | 102 | 90-110 | | |
| Calcium | 38.1 | | 0.1 | mg/L | 35.71 | | 107 | 90-110 | | |
| Magnesium | 38.4 | | 0.1 | mg/L | 35.71 | | 108 | 90-110 | | |
| **Duplicate (BEJ0144-DUP1)** | | **Source: 23J0298-03** | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 167 | | 1 | mg/L | | 165 | | | 1.38 | 15 |
| Potassium | 1.34 | | 0.500 | mg/L | | 1.46 | | | 8.47 | 15 |
| Calcium | 3.2 | | 0.1 | mg/L | | 3.1 | | | 3.80 | 15 |
| Magnesium | 0.2 | | 0.1 | mg/L | | 0.2 | | | 1.91 | 15 |
| **Matrix Spike (BEJ0144-MS1)** | | **Source: 23J0298-03** | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 208 | | 1 | mg/L | 35.71 | 165 | 119 | 90-110 | | |
| Potassium | 39.7 | | 0.500 | mg/L | 35.71 | 1.46 | 107 | 90-110 | | |
| Calcium | 39.4 | | 0.1 | mg/L | 35.71 | 3.1 | 102 | 90-110 | | |
| Magnesium | 36.6 | | 0.1 | mg/L | 35.71 | 0.2 | 102 | 90-110 | | |
| **Matrix Spike (BEJ0144-MS2)** | | **Source: 23J0321-04** | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Calcium | 126 | | 0.1 | mg/L | 35.71 | 84.7 | 115 | 90-110 | | |
| Sodium | 161 | | 1 | mg/L | 35.71 | 128 | 92.1 | 90-110 | | |
| Potassium | 42.2 | | 0.500 | mg/L | 35.71 | 6.18 | 101 | 90-110 | | |
| Magnesium | 70.4 | | 0.1 | mg/L | 35.71 | 30.7 | 111 | 90-110 | | |
| **Reference (BEJ0144-SRM2)** | | | | | Prepared: 10/4/2023 Analyzed: 10/5/2023 | | | | | |
| Sodium | 97 | | | mg/L | 91.50 | | 106 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0144 (Continued)*** | | | | | | | | | | |
| **Reference (BEJ0144-SRM2)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Potassium | 23.4 | | | mg/L | 21.90 | | 107 | 90-110 | | |
| **Reference (BEJ0144-SRM3)** | | | | | Prepared: 10/4/2023 | Analyzed: 10/5/2023 | | | | |
| Calcium | 46.2 | | | mg/L | 45.90 | | 101 | 90-110 | | |
| Magnesium | 36.1 | | | mg/L | 35.60 | | 101 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0147*** | | | | | | | | | | |
| **Blank (BEJ0147-BLK1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| **Blank (BEJ0147-BLK2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| **Blank (BEJ0147-BLK3)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| **Blank (BEJ0147-BLK4)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | | | | | | |
| **LCS (BEJ0147-BS1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 5.4 | | 0.2 | mg/L | 5.000 | | 108 | 90-110 | | |
| **LCS (BEJ0147-BS2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 4.9 | | 0.2 | mg/L | 5.000 | | 97.2 | 90-110 | | |
| **LCS (BEJ0147-BS3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | 4.9 | | 0.2 | mg/L | 5.000 | | 97.3 | 90-110 | | |
| **Duplicate (BEJ0147-DUP1)** | | **Source: 23J0320-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 81.9 | | 0.2 | mg/L | | 81.1 | | | 0.953 | 10 |
| **Duplicate (BEJ0147-DUP2)** | | **Source: 23J0293-01** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | 128.8 | | 0.2 | mg/L | | 127.4 | | | 1.07 | 10 |
| **Duplicate (BEJ0147-DUP3)** | | **Source: 23J0367-01** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | 29.7 | | 0.2 | mg/L | | 29.8 | | | 0.497 | 10 |
| **Matrix Spike (BEJ0147-MS1)** | | **Source: 23J0320-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 85.5 | | 0.2 | mg/L | 5.000 | 81.1 | 87.4 | 90-110 | | |
| **Matrix Spike (BEJ0147-MS2)** | | **Source: 23J0293-01** | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 132.6 | | 0.2 | mg/L | 5.000 | 127.4 | 105 | 90-110 | | |
| **Matrix Spike (BEJ0147-MS3)** | | **Source: 23J0367-01** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | ND | | 0.2 | mg/L | 5.000 | 29.8 | NR | 90-110 | | |
| **Reference (BEJ0147-SRM1)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.2 | 90-110 | | |
| **Reference (BEJ0147-SRM2)** | | | | | Prepared & Analyzed: 10/4/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.6 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0147 (Continued)*** | | | | | | | | | | |
| **Reference (BEJ0147-SRM3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | 12.4 | | | mg/L | 12.50 | | 99.6 | 90-110 | | |
| **Reference (BEJ0147-SRM4)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Chloride | 12.3 | | | mg/L | 12.50 | | 98.2 | 90-110 | | |

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## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0188*** | | | | | | | | | | |
| **Blank (BEJ0188-BLK1)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 5.1 | | 1.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Blank (BEJ0188-BLK2)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 5.4 | | 1.0 | units | | | | | | |
| **Blank (BEJ0188-BLK3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | | | | | |
| Alkalinity as CaCO3 | ND | | 10.0 | mg/L | | | | | | |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Bicarbonate as CaCO3 | ND | | 5.00 | mg/L | | | | | | |
| pH | 5.4 | | 1.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Duplicate (BEJ0188-DUP1)** | | **Source: 23J0297-01** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Alkalinity as CaCO3 | 178 | | 10.0 | mg/L | | 178 | | | 0.00 | 10 |
| Electrical Conductivity | 0.90 | | 0.01 | mmhos/cm | | 0.90 | | | 0.133 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Carbonate as CaCO3 | 16 | | 1 | mg/L | | 16 | | | 0.487 | 10 |
| pH | 8.9 | | 1.0 | units | | 8.9 | | | 0.224 | 10 |
| Electrical Conductivity umhos | 904 | | 10.0 | umhos/cm | | 903 | | | 0.133 | 10 |
| **Duplicate (BEJ0188-DUP2)** | | **Source: 23J0365-01** | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 0.08 | | 0.01 | mmhos/cm | | 0.08 | | | 1.15 | 10 |
| Hydroxide as CaCO3 | ND | | 1.00 | mg/L | | ND | | | | 10 |
| Carbonate as CaCO3 | ND | | 1 | mg/L | | ND | | | | 10 |
| Alkalinity as CaCO3 | 20.1 | | 10.0 | mg/L | | 19.5 | | | 3.19 | 10 |
| Electrical Conductivity umhos | 77.9 | | 10.0 | umhos/cm | | 78.8 | | | 1.15 | 10 |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By:

Received: 10/03/2023 17:19
Reported: 10/06/2023 09:49

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEJ0188 (Continued)*** | | | | | | | | | | |
| **Duplicate (BEJ0188-DUP2)** | | | **Source: 23J0365-01** | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 6.6 | | 1.0 | units | | 6.7 | | | 0.300 | 10 |
| **Reference (BEJ0188-SRM1)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Alkalinity as CaCO3 | 38.8 | | | mg/L | 40.60 | | 95.7 | 90-110 | | |
| Electrical Conductivity | 574 | | | umhos/cm | 538.0 | | 107 | 90-110 | | |
| **Reference (BEJ0188-SRM2)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 580 | | | umhos/cm | 538.0 | | 108 | 90-110 | | |
| Alkalinity as CaCO3 | 39.3 | | | mg/L | 40.60 | | 96.9 | 90-110 | | |
| **Reference (BEJ0188-SRM3)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| Electrical Conductivity | 572 | | | umhos/cm | 538.0 | | 106 | 90-110 | | |
| Alkalinity as CaCO3 | 39.8 | | | mg/L | 40.60 | | 98.1 | 90-110 | | |
| **Reference (BEJ0188-SRM4)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0188-SRM5)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0188-SRM6)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEJ0188-SRM7)** | | | | | Prepared & Analyzed: 10/5/2023 | | | | | |
| pH | 5.9 | | | units | 5.820 | | 101 | 28178-101.71 | | |

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10/03/23 17:19 23J0293

# DELLAVALLE LABORATORY, INC.

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

No. Samples: 10 No of Bottles: 26

Purchase Order No

Bill To: Acct # Cons #

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater
[X] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Not Calf Ranch

Address: PO BOX 309

City: Chowchilla State: CA Zip:

Telephone: Fax:

Cell/Email: Vlotranch@outlook.com

COPY TO: labs@fragservices.com
krhodes@fragservices.com

REQUESTED BY:

PROJECT:

CROP: Irrigation wells

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

Other:

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) Other + TN

| | # of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 1 | DW 2 | 10/2 | 0800 | -.4 | |
| 2 | 3 | | 0810 | 2.5 | |
| | 8 | | 0805 | .6 | |
| 4 | 9 | | 0815 | 1.6 | |
| 5 | 11 | | 0820 | -1.3 | |
| 6 | 18 | | 0816 | -.6 | |
| 7 | 16 | | 0825 | .9 | |
| 8 | 19 | | 0830 | .4 | |
| 9 | 20 | | 0835 | 1.1 | |
| 10 | 21 | | 0840 | 3.1 | |

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | KR | FR Ag | | 10/3 1230 |
| Second | JLE | DLV | 10-3-23 3:03 | 10-3-23 4:30 |
| Third | | | | |
| Fourth | | DLI | 10-3-23 17:19 | |

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:***

Sampling hrs

Consulting

***Shipping***

$ In
$ Out

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[F & R Ag Services Water.xls]Dairy Water rev 2.8.18

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10/03/23 17:19 23J0293

**Shipping Information:** Shipped In ☐ Picked-Up ☑ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

| | Type of Container(s) Received | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| | * pH Value | | | | | | | | | | |
| | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| | * pH Value | | | | | | | | | | |
| | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| | PO4-P Kit | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |
| | **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| | 500 mL glass unpreserved (White) | | | | | | | | | | |
| | 500 mL AG HCl (Blue) | | | | | | | | | | |
| | 1 L AG unpreserved (White) | | | | | | | | | | |
| | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| | Cyanide - 500 mL NaOH | | | | | | | | | | |
| | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| | DO KIT | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |
| | **Other:** | | | | | | | | | | |

SEND OUT

DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Samples in this Report

| Lab ID | Sample | Matrix | Sampled By | Crop | Date Sampled |
|---|---|---|---|---|---|
| 23K0944-01 | DW 6 | Canal Water | FR Ag Services | Fresh Water | 11/16/2023 7:30 |

Default Cooler Temperature on Receipt °C: 8.6
Containers Intact
COC/Labels Agree
Received On Ice

## Notes and Definitions

| Item | Definition |
|---|---|
| H | Hold Time Exceeded |
| MCL | Drinking Water Maximum Contaminant Level |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| NES | Not Enough Sample |
| * | Not Taken |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™
LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Sample Results

**Sample: DW 6**
**23K0944-01 (Water)**

Sampled: 11/16/2023 7:30
Sampled By: FR Ag Services

| Analyte | Result | Units | Reporting Limit | DIL | DW MCL | Date/Time Analyzed | Method | Notes | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **Electrical Conductivity** | **0.96** | mmhos/cm | 0.01 | 1 | | 11/27/23 10:46 | SM 2510 B | | BEK0620 |
| **Electrical Conductivity umhos** | **957** | umhos/cm | 10.0 | 1 | | 11/27/23 10:46 | SM 2510 B | | BEK0620 |
| Nitrate Nitrogen as NO3N | ND | mg/L | 0.1 | 1 | 10 | 11/17/23 20:26 | EPA 300.0 | | BEK0628 |
| **Temperature** | **25.0** | units | 0.0 | 1 | | 11/27/23 10:46 | SM 4500-H+ | H | BEK0620 |
| **pH** | **8.1** | units | 1.0 | 1 | | 11/27/23 10:46 | SM 4500-H+ | H | BEK0620 |
| **Total Filterable Solids (TDS)** | **550** | mg/L | 10.0 | 1 | | 11/20/23 14:52 | SM 2540 C | | BEK0609 |
| Kjeldahl Nitrogen (TKN), Total | ND | mg/L | 1.00 | 1 | | 11/21/23 09:35 | SM 4500-NH3 C | | BEK0631 |
| Total Nitrogen | ND | mg/L | 1.00 | 1 | | 11/21/23 09:35 | SM 4500-NH3 C | | BEK0631 |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Quality Control

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEK0609*** | | | | | | | | | | |
| **Blank (BEK0609-BLK1)** | | | | | Prepared: 11/17/2023 Analyzed: 11/20/2023 | | | | | |
| Total Filterable Solids (TDS) | ND | | 10.0 | mg/L | | | | | | |
| **LCS (BEK0609-BS1)** | | | | | Prepared: 11/17/2023 Analyzed: 11/20/2023 | | | | | |
| Total Filterable Solids (TDS) | 27.5 | | 10.0 | mg/L | 2000 | | 1.38 | 0-200 | | |
| **Duplicate (BEK0609-DUP1)** | | | **Source: 23K0880-01** | | Prepared: 11/17/2023 Analyzed: 11/20/2023 | | | | | |
| Total Filterable Solids (TDS) | 6350 | | 10.0 | mg/L | | 6800 | | | 6.84 | 10 |
| **Duplicate (BEK0609-DUP2)** | | | **Source: 23K0949-01** | | Prepared: 11/17/2023 Analyzed: 11/20/2023 | | | | | |
| Total Filterable Solids (TDS) | 6150 | | 10.0 | mg/L | | 6300 | | | 2.41 | 10 |
| **Reference (BEK0609-SRM1)** | | | | | Prepared: 11/17/2023 Analyzed: 11/20/2023 | | | | | |
| Total Filterable Solids (TDS) | 317 | | | mg/L | 325.0 | | 97.4 | 90-110 | | |

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Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEK0620*** | | | | | | | | | | |
| **Blank (BEK0620-BLK1)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 5.5 | | 1.0 | units | | | | | | |
| **Blank (BEK0620-BLK2)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| pH | 6.5 | | 1.0 | units | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| **Blank (BEK0620-BLK3)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Temperature | 25.0 | | 0.0 | units | | | | | | |
| Electrical Conductivity | ND | | 0.01 | mmhos/cm | | | | | | |
| Electrical Conductivity umhos | ND | | 10.0 | umhos/cm | | | | | | |
| pH | 6.2 | | 1.0 | units | | | | | | |
| **Duplicate (BEK0620-DUP1)** | | **Source: 23K0942-04** | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | 1.10 | | 0.01 | mmhos/cm | | 1.10 | | | 0.510 | 10 |
| Electrical Conductivity umhos | 1100 | | 10.0 | umhos/cm | | 1100 | | | 0.510 | 10 |
| pH | 7.7 | | 1.0 | units | | 7.7 | | | 0.129 | 10 |
| **Duplicate (BEK0620-DUP2)** | | **Source: 23K0945-02** | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | 0.34 | | 0.01 | mmhos/cm | | 0.34 | | | 0.0596 | 10 |
| Electrical Conductivity umhos | 336 | | 10.0 | umhos/cm | | 336 | | | 0.0596 | 10 |
| pH | 8.4 | | 1.0 | units | | 8.5 | | | 0.473 | 10 |
| **Reference (BEK0620-SRM1)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | 565 | | | umhos/cm | 538.0 | | 105 | 90-110 | | |
| **Reference (BEK0620-SRM2)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| pH | 7.6 | | | units | 7.520 | | 101 | 67021-101.32 | | |
| **Reference (BEK0620-SRM3)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | 1060 | | | umhos/cm | 1000 | | 106 | 90-110 | | |
| Electrical Conductivity umhos | 1060 | | | umhos/cm | 1000 | | 106 | 90-110 | | |
| **Reference (BEK0620-SRM4)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | 1060 | | | umhos/cm | 1000 | | 106 | 90-110 | | |
| Electrical Conductivity umhos | 1060 | | | umhos/cm | 1000 | | 106 | 90-110 | | |
| **Reference (BEK0620-SRM5)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity | 1060 | | | umhos/cm | 1000 | | 106 | 90-110 | | |

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Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEK0620 (Continued)*** | | | | | | | | | | |
| **Reference (BEK0620-SRM5)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| Electrical Conductivity umhos | 1060 | | | umhos/cm | 1000 | | 106 | 90-110 | | |
| **Reference (BEK0620-SRM6)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |
| **Reference (BEK0620-SRM7)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 100 | 97.5-102.5 | | |
| **Reference (BEK0620-SRM8)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/27/2023 | | | | |
| pH | 4.0 | | | units | 4.000 | | 101 | 97.5-102.5 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEK0628*** | | | | | | | | | | |
| **Blank (BEK0628-BLK1)** | | | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEK0628-BLK2)** | | | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| **Blank (BEK0628-BLK3)** | | | | | Prepared & Analyzed: 11/18/2023 | | | | | |
| Nitrate Nitrogen as NO3N | ND | | 0.1 | mg/L | | | | | | |
| **LCS (BEK0628-BS1)** | | | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.3 | | 0.1 | mg/L | 5.000 | | 107 | 90-110 | | |
| **LCS (BEK0628-BS2)** | | | | | Prepared & Analyzed: 11/18/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.2 | | 0.1 | mg/L | 5.000 | | 105 | 90-110 | | |
| **Duplicate (BEK0628-DUP1)** | | **Source: 23K0942-01** | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 0.07 | | 0.1 | mg/L | | 0.07 | | | 0.00 | 10 |
| **Duplicate (BEK0628-DUP2)** | | **Source: 23K0990-01** | | | Prepared & Analyzed: 11/18/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 0.04 | | 0.1 | mg/L | | 0.04 | | | 0.00 | 10 |
| **Matrix Spike (BEK0628-MS1)** | | **Source: 23K0942-01** | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.3 | | 0.1 | mg/L | 5.000 | 0.07 | 105 | 90-110 | | |
| **Matrix Spike (BEK0628-MS2)** | | **Source: 23K0990-01** | | | Prepared & Analyzed: 11/18/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 5.3 | | 0.1 | mg/L | 5.000 | 0.04 | 105 | 90-110 | | |
| **Reference (BEK0628-SRM1)** | | | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 10.2 | | | mg/L | 10.00 | | 102 | 90-110 | | |
| **Reference (BEK0628-SRM2)** | | | | | Prepared & Analyzed: 11/17/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 10.3 | | | mg/L | 10.00 | | 103 | 90-110 | | |
| **Reference (BEK0628-SRM3)** | | | | | Prepared & Analyzed: 11/18/2023 | | | | | |
| Nitrate Nitrogen as NO3N | 10.3 | | | mg/L | 10.00 | | 103 | 90-110 | | |

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DELLAVALLE™ LABORATORY INC

Vlot Calf Ranch
PO Box 309
Chowchilla, CA 93610

Account# 00-0022212
Account Manager: Ben Nydam
Submitted By: Case V.

Received: 11/16/2023 15:50
Reported: 11/29/2023 13:29

## Quality Control
**(Continued)**

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: BEK0631*** | | | | | | | | | | |
| **Blank (BEK0631-BLK1)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **Blank (BEK0631-BLK2)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.00 | mg/L | | | | | | |
| Total Nitrogen | ND | | 1.00 | mg/L | | | | | | |
| **LCS (BEK0631-BS1)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.42 | | 1.00 | mg/L | 5.709 | | 95.0 | 90-110 | | |
| **LCS (BEK0631-BS2)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 5.99 | | 1.00 | mg/L | 5.709 | | 105 | 90-110 | | |
| **Duplicate (BEK0631-DUP1)** | | **Source: 23K0883-01** | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 12.4 | | 3.50 | mg/L | | 13.0 | | | 4.85 | 10 |
| **Duplicate (BEK0631-DUP2)** | | **Source: 23K0944-01** | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | ND | | 1.40 | mg/L | | ND | | | | 10 |
| **Matrix Spike (BEK0631-MS1)** | | **Source: 23K0883-01** | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 19.7 | | 3.50 | mg/L | 9.990 | 13.0 | 67.5 | 90-110 | | |
| **Matrix Spike (BEK0631-MS2)** | | **Source: 23K0944-01** | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 8.37 | | 1.40 | mg/L | 7.992 | ND | 105 | 90-110 | | |
| **Reference (BEK0631-SRM1)** | | | | | Prepared: 11/17/2023 | Analyzed: 11/21/2023 | | | | |
| Kjeldahl Nitrogen (TKN), Total | 24.2 | | | mg/L | 23.80 | | 102 | 90-110 | | |

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# WATER WORK REQUEST

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

E 11.16.23

Purchase Order No

Bill To: 22212 Acct # | 09 / 08 Cons #

No. Samples: 1 No of Bottles: 2

Results Need By

**Water Type:** [ ] Drinking Water [ ] Wastewater
[X] Ag Water [ ] Groundwater [ ] Monitoring Well

**Name:** Vlot Calf Ranch
**Address:** PO Box 309
**City:** Chowchilla **State:** CA **Zip:** 93610
**Telephone:** **Fax:**
**Cell/Email:** vlotranch@outlook.com
**COPY TO:** labs@fragservices.com
ariordan@fragservices.com krhodes@fragservices.com
**REQUESTED BY:** Case V.
**PROJECT:**
**CROP:** Fresh water

[X] Copy of Chain [X] QA/QC Documents
Sampled By: FR Ag Services

**Other:**

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

( ) DWW1: EC, $NO_3$-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus $SO_4$, $CO_3$, $HCO_3$, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DCW1: EC, $NO_3$-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, $NO_3$-N, $NH_4$-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, $HCO_3$, $CO_3$, $SO_4$, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

| | Description of Samples | Date Sampled | Time Sampled | Rec'd Temp °C | Field $NH_4$-N |
|---|---|---|---|---|---|
| 1 | DW 6 | 11/16 | 0730 | 8.6 | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | JG |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

11/16/23 15:50 23K0944

**CHAIN OF CUSTODY**

| Carrier | Signature | Company | Received (Date/Time) | Relinquished (Date/Time) |
|---|---|---|---|---|
| First | Kierstan Rhodes | FR Ag Services | 11/16 [illegible] | |
| Second | JCF | DCV | 11-16-23 1:55 | 11-16-23 3:25 |
| Third | [illegible] | DLF | 11-16-23 15:50 | |
| Fourth | | | | |

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

***Invoicing Information:***
Sampling hrs
[illegible]
Consulting

***Shipping***
$ In
$ Out

| Amt Paid | Rec By | Check # | Date |
|---|---|---|---|
| | | | |

**Signature**

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Vlot Calf Ranch Water.xls]Dairy Water

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Paste Label Here

11/16/23 15:50 23K0944

**Shipping Information:** Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

**Container:** Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

**Samples Preserved with $HNO_3$ or $H_2SO_4$ were:** ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

| Type of Container(s) Received | | Sample Number 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Containers for Internal (DLI) Use** *(Containers that go into the Lab)* | | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | * pH Value | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| Plastics | * pH Value | 2 | | | | | | | | | |
| Plastics | 500 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | 1 | | | | | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Special | 500mL unpreserved (White) Glass | | | | | | | | | | |
| Special | PO4-P Kit | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| **Sample Containers for Subcontracted ("Send Out") Analyses** *(Containers that go in the Subcontract ("Send Out") Refrigerator)* | | | | | | | | | | | |
| Plastics | 100 mL sterile plastic $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Plastics | 250 mL unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 250 mL $HNO_3$ (Red) Plastic | | | | | | | | | | |
| Plastics | 250 mL $H_2SO_4$ (Yellow) Plastic | | | | | | | | | | |
| Plastics | 500 mL $HNO_3$ (Red) | | | | | | | | | | |
| Plastics | 1 L unpreserved (White) Plastic | | | | | | | | | | |
| Plastics | 1 L unpreserved (BOD) (Purple) Plastic | | | | | | | | | | |
| Plastics | 1 L $HNO_3$ (Red) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (EPA547) | | | | | | | | | | |
| VOA Vials | 40mL AG VOA unpreserved (White) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40mL VOA, $H_3PO_4$ (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, HCl (Blue) (Set of 3) | | | | | | | | | | |
| VOA Vials | 40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3) | | | | | | | | | | |
| Glass | 250 mL AG unpreserved (White) | | | | | | | | | | |
| Glass | 250 mL AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 250 mL AG $Na_2S_2O_3$ + MCAA | | | | | | | | | | |
| Glass | 500 mL glass unpreserved (White) | | | | | | | | | | |
| Glass | 500 mL AG HCl (Blue) | | | | | | | | | | |
| Glass | 1 L AG unpreserved (White) | | | | | | | | | | |
| Glass | 1 L AG $H_2SO_4$ (Yellow) | | | | | | | | | | |
| Glass | 1 L AG $Na_2S_2O_3$ (Green) | | | | | | | | | | |
| Glass | 1 L AG HCl (Blue) | | | | | | | | | | |
| Special | $Cr^{6+}$ - 50mL Plastic w/Borate/$HCO_3$/$CO_3$ | | | | | | | | | | |
| Special | Cyanide - 500 mL NaOH | | | | | | | | | | |
| Special | Asbestos - 1L P wrapped in foil (Set of 2) | | | | | | | | | | |
| Special | Sulfide - 1 L **AG** or **P** NaOH + ZnAc | | | | | | | | | | |
| Special | Chlorite/Bromate - 250 mL AG with EDA | | | | | | | | | | |
| Special | HAA5 - 250mL AG Ammonium Chlorite | | | | | | | | | | |
| Special | DO KIT | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |
| Special | **Other:** | | | | | | | | | | |

pH Strips
Lot: 10BDH4501 Exp: Jan 2025

SEND OUT